REGIONE PUGLIA | COMUNE DI SAN GIOVANNI ROTONDO | PROVINCIA DI FOGGIA | COMUNE DI MANFREDONIA | COMUNE DI SAN MARCO IN LAMIS

IMPIANTO AGRIVOLTAICO "LA FEUDALE" ED OPERE DI CONNESSIONE

CALCOLI PRELIMINARI DEGLI IMPIANTI DEL PROGETTO DEFINITIVO

00	**29/09/2021**	**PRIMA EMISSIONE**	**A.D.G.**	**P.E.**	**L.S.**
REV.	***DATE***	***DESCRIPTION***	***PREPARED***	***VERIFIED***	***APPROVED***

VALIDO PER	**IMPIANTO AGRIVOLTAICO LA FEUDALE**	***PROGETTO***	**DEFINITIVO**

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PREMESSA

L'impianto agrovoltaico denominato "La Feudale" sarà di tipo grid-connected con allaccio trifase in alta tensione a 150kV su rete TERNA a mezzo di sottostazione elettrica elevatrice 150/30kV. Di seguito si riportano le potenze nominali dell'impianto:

- Pdc: 32292.48kWp;
- Pac: 29363 kW a cosfi=1.

L'impianto ha una produzione di energia pari a **51216000 kWh** al primo anno (equivalente a 1586.0 kWh/kWp).

L'energia dell'impianto complessivo è derivante da 53376 moduli che occupano una superficie fotovoltaica di 151060.27m² ed è composto da 22 gruppi di conversione.

Catastalmente le opere sono di seguito localizzate:

- Aree di Impianto: Comune di Manfredonia, foglio 64 particelle 108, 74, 106, 73, 80 e 91 foglio 65 particelle 54, 51, 180 e 48;
- Aree di Impianto: Comune di San Giovanni Rotondo, foglio 149 particelle 34, 35.

Le aree risultano essere nella disponibilità di Luminora La feudale s.r.l. e localizzabili con le seguenti coordinate baricentriche nel sistema di riferimento UTM – WGS84 33N:

- Impianto agrovoltaico: latitudine 566159.96 e longitudine 4600422.53;
- Sottostazione: latitudine 557309.18 e longitudine 4602711.04.

1. RIFERIMENTI NORMATIVI

Gli impianti elettrici dovranno essere realizzati nel rispetto delle disposizioni seguenti:

− D.P.R. 27.04.1955 n. 547 e successive modificazioni;
− D.P.R. 07.01.1956 n. 164 e successive modificazioni;
− D.P.R. 19.03.1956 n. 303 e successive modificazioni;
− Legge 07.12.1984 n. 818 e successive modificazioni;
− Legge 01.03.1990 n. 186;
− Legge 18.10.1977 n. 791;
− Legge 05.03.1990 n. 46 e successive integrazioni (sostituita dal DM NR 37 del 22-01- 08);
− D.P.R. 06.12.1991 n. 447(sostituito dal DM NR 37 del 22-01-08);
− D.L. 19.09.1994 n. 626 e successive modificazioni;
− e quanto altro possa comunque interessare.

Si richiamano le prescrizioni degli Enti Locali preposti ai controlli: USL, ISPESL, Aziende distributrici elettriche, del gas, etc.

Si sottolinea che dovranno essere osservate altresì le norme: CEI, UNI e le tabelle CEI UNEL. Relativamente alle norme CEI dovranno essere rispettate quelle in vigore all'atto esecutivo dei lavori con particolare riferimento, a titolo esemplificativo, e non esaustivo, alle Norme di seguito elencate.

− Criteri di allacciamento alla rete AT della distribuzione.
− ENEL DK 5310
− CEI 99-2
− CEI 99-3
− CEI 11-4 Esecuzione delle linee elettriche aeree esterne.
− CEI 11-15 Esecuzione di lavori sotto tensione.
− CEI 11-17 Impianti di produzione, trasmissione e distribuzione di energia elettrica – linee in cavo.
− CEI 11-20 Impianti di produzione di energia elettrica e gruppi di continuità collegati a reti di I e II categoria.
− CEI 11-25 Calcolo delle correnti di cortocircuito nelle reti trifasi a corrente alternata.
− CEI EN60865-1 Calcolo degli effetti delle correnti di cortocircuito.
− CEI 11-28 Calcolo delle correnti di cortocircuito nelle reti radiali a B.T.
− CEI 11-35 Guida all'esecuzione delle cabine elettriche d'utente.
− CEI 11-37 Guida all'esecuzione degli impianti di terra negli stabilimenti industriali per sistemi di I, II e III categoria.
− CEI 17-1 Interruttori a corrente alternata a tensione superiore a 1000V.
− CEI 17-4(CEI EN60129) Sezionatori e sezionatori di terra a corrente alternata a tensione superiore a 1000V.
− CEI 17-6(CEI EN60298) Apparecchiature prefabbricate con involucro metallico per tensioni da 1kV a 52kV.
− CEI 17-9/1(CEI EN60265-1) Interruttori di manovra ed interruttori di manovrasezionatori per tensioni da 1kV a 52kV.
− CEI 17-9/2(CEI EN60265-2) Interruttori di manovra ed interruttori di manovrasezionatori per tensioni uguali o superiori a 52kV.
− CEI 17-21 (CEI EN60694) Apparecchiatura di manovra e di comando ad alta tensione-Prescrizioni comuni.
− CEI 17-46 (CEI EN60420) Interruttori di manovra ed interruttori-sezionatori con fusibili ad alta tensione per corrente alternata.
− CEI 17-68 (CEI EN50187) Apparecchiatura di manovra con involucro metallico con isolamento a gas per tensioni da 1kV a 52kV.
− IEC 99-4 Scaricatori di sovratensione per sistemi di II e III categoria.

− CEI 64-8 Impianti elettrici utilizzatori di B.T.-Parti 1…7.

− CEI 17-13/1 (CEI EN60439-1) Apparecchiature assiemate di protezione e manovra per B.T. - Quadri elettrici AS ed ANS.

− CEI 20-13 Cavi isolati in gomma EPR con tensione non superiore a Uo/U=0.6/1kV.

CEI 20-14 Cavi isolati in PVC con tensione non superiore a Uo/U=0.6/1kV.

− CEI 20-21 Calcolo della portata dei cavi elettrici.

− CEI 20-22 Prove dei cavi non propaganti l'incendio.

− CEI 20-33 Giunzioni e terminazioni per cavi di energia con tensione fino a Uo/U=0.6/1kV.

− CEI 20-37 Cavi elettrici-prove sui gas emessi durante la combustione.

− CEI UNEL 35024/1 Portate di corrente in regime permanente per posa in aria di cavi B.T. ad isolamento elastomerico o termoplastico.

− CEI UNEL 35024/1EC Portate di corrente in regime permanente per posa in aria di cavi B.T. ad isolamento elastomerico o termoplastico.

− CEI 23-28 Tubi per installazioni elettriche/tubi metallici.

− CEI 23-39(CEI EN50086-1) Sistemi di tubi ed accessori per installazioni elettriche/prescrizioni generali.

− CEI 23-54(CEI EN50086-2-1) Sistemi di tubi ed accessori per installazioni elettriche/tubi rigidi.

− CEI 23-55(CEI EN50086-2-2) Sistemi di tubi ed accessori per installazioni elettriche/tubi pieghevoli.

− CEI 23-56(CEI EN50086-2-3) Sistemi di tubi ed accessori per installazioni elettriche/tubi flessibili.

− CEI 23-29 Cavidotti in materiale plastico.

− CEI 23-19 Sistemi di canali isolanti portacavi ad uso battiscopa.

− CEI 23-32 Sistemi di canali isolanti portacavi e porta apparecchi per utilizzo a soffitto o parete.

− CEI 23-31 Sistemi di canali metallici portacavi ed accessori.

− CEI 23-20/23-21/23-30/23-35/23-41 Dispositivi di connessione e morsetti.

− CEI 23-48(1998) Involucri per installazioni elettriche ad uso domestico o similare - Cassette.

− CEI 23-49 Involucri per installazioni elettriche ad uso domestico o similare – Quadri elettrici.

− CEI 23-51 Prescrizioni per la realizzazione dei quadri elettrici ad uso domestico o similare.

− CEI 23-51V1 Prescrizioni per la realizzazione dei quadri elettrici ad uso domestico o − similare.

− CEI 17-44 (CEI EN60947-1) Apparecchiature per B.T. - Regole generali.

− CEI 17-5 (CEI EN60947-2) Interruttori automatici per B.T.

− CEI EN60947-2 (Appendice B) Dispositivi differenziali indipendenti con toroide separato.

− CEI 17-11 (CEI EN60947-3) Interruttori di manovra e sezionatori con o senza fusibili per B.T.

− CEI 17-50 (CEI EN60947-4-1) Contattori ed avviatori elettromeccanici per B.T.

− CEI 17-45 (CEI EN60947-5-1) Dispositivi per circuiti di comando e manovra in B.T.

- CEI 17-47 (CEI EN60947-6-1) Apparecchiature di commutazione automatica in B.T.
- CEI 17-48 (CEI EN60947-7-1) Morsettiere per conduttori in B.T.
- CEI 17-41 (CEI EN61095) Contattori elettromeccanici per usi domestici o similari.
- CEI 41-1 Relè ausiliari elettromeccanici.
- CEI 23-3 (CEI EN60898) Interruttori automatici per usi domestici e similari.
- CEI 23-12 (CEI EN60309-1/2) Prese a spina per usi industriali.
- CEI 23-5 Prese a spina per usi domestici e similari.
- CEI 23-50 Prese a spina per usi domestici e similari.
- CEI 23-16 Prese a spina di tipo complementare per usi domestici e similari.
- CEI 23-9 (CEI EN60669-1) Apparecchi di comando non automatici per usi domestici e similari.
- CEI EN60669-2-1/2 Relè passo/passo modulari.
- CEI 23-42 (CEI EN61008-1) Interruttori differenziali senza sganciatori di sovracorrente incorporati per usi domestici e similari.
- CEI 23-43 (CEI EN61008-2-1) Interruttori differenziali senza sganciatori di sovracorrente incorporati per usi domestici e similari.
- CEI 23-18 (CEI EN61009-2-1) Interruttori differenziali con sganciatori di sovracorrente incorporati per usi domestici e similari.
- CEI 23-44 (CEI EN61009-1) Interruttori differenziali con sganciatori di sovracorrente incorporati per usi domestici e similari.
- CEI EN61036 Contatori elettrici statici di energia attiva per corrente alternata.
- CEI EN61010-1 Strumenti di misura digitali.
- CEI EN60414/CEI EN60051 Strumenti di misura analogici.
- CEI 66-5/85-3/85-4/85-5/85-7 Strumenti di misura.
- CEI 38-1 (CEI EN60044-1) Trasformatori di corrente per misura.
- CEI 38-2 Trasformatori di tensione per misura.
- EN 60730-1/2 Termostati modulari.
- EN 61000-3-2 Interruttori crepuscolari modulari.
- CEI EN60730-1/2 Interruttori orari modulari.
- CEI 81-10 Protezione delle strutture contro i fulmini.
- CEI 37-1 Limitatori di sovratensione a resistori non lineari con spinterometri.
- CEI 37-2 Limitatori di sovratensione ad ossido di metallo senza spinterometri.
- IEC 60840 Cavi AT per posa interrata.

2. CADUTA DI TENSIONE

La caduta di tensione massima introdotta nei calcoli per la determinazione delle sezioni dei cavi non dovrà superare, ai morsetti dell'utilizzatore, il 4% della tensione nominale nel funzionamento

a regime sul lato corrente alternate (AC) ed il 2% sul lato corrente continua (DC).

Il calcolo della caduta di tensione percentuale in AC è ottenibile con la seguente relazione:

$$\Delta V\% = \mathrm{k} * \frac{\sqrt{R^2 + X^2}}{Vn} * I * \frac{L}{1000}$$

dove:

- k = 2 per line monofasi e 1,73 per linee trifasi;
- L = lunghezza della linea espressa in km;
- I = corrente trasportata espressa in A;
- R = resistenza della linea espressa in Ω/m;
- X = reattanza della linea espressa in Ω/m;
- V_n= tensione nominale in V

Il calcolo della caduta di tensione percentuale in DC è ottenibile con la seguente relazione:

$$\Delta V\% = 2 * \frac{R}{Vn} * I * \frac{L}{1000}$$

- L = lunghezza della linea espressa in km;
- I = corrente trasportata espressa in A;
- R = resistenza della linea espressa in Ω/m;
- V_n= tensione nominale in V.

3. CALCOLO DELLA PORTATA DELLE CONDUTTURE

Le portate dei cavi in regime permanente relative alle condutture installate sono state verificate secondo le Tabelle CEI-UNEL 35024/1, per posa in aria, e CEI-UNEL 35026, per posa interrata, applicando ai valori individuati, dei coefficienti di riduzione che dipendono dalle specifiche condizioni di posa e dalla temperatura ambiente.

4. PROTEZIONE DA SOVRACORRENTI

La protezione contro le sovracorrenti deve rispettare le seguenti condizioni:

a) $Ib \leqslant In \leqslant Iz$ con $Ib \leqslant In \leqslant 0{,}9\ Iz$ nel caso di fusibili

b) $If \leqslant 1{,}45\ Iz$

c) potere di interruzione (o di cortocircuito) del dispositivo di protezione non inferiore al valore della corrente di cortocircuito presunta nel punto di installazione,

Ib = corrente di impiego del circuito;

Iz = portata della conduttura;

In = corrente nominale o corrente termica di regolazione del dispositivo di protezione;

If = corrente di intervento del dispositivo entro il tempo convenzionale stabilito.

In relazione alle portate Iz ed alle condizioni a) e b), si determinano i valori di corrente nominale (o di regolazione termica) degli interruttori e fusibili posti a protezione delle singole linee.

Il potere di interruzione (o di cortocircuito) dei dispositivi di protezione non dovrà essere inferiore al valore della corrente di cortocircuito presunta in corrispondenza del punto di installazione.

Dovrà, inoltre, essere garantito il coordinamento tra l'energia specifica passante dell'apparecchiatura di protezione (integrale di Joule) e l'energia specifica passante tollerabile dai conduttori, rappresentato mediante la seguente relazione:

$$\int_0^{t_i} i^2 dt \leq K^2 S^2$$

dove:

$$\int_0^{t_i} i^2 dt$$

è l'energia specifica passante (tra t = 0 e t = ti) del dispositivo di protezione;

K = costante dell'isolante del conduttore [115 per cavi in pvc; 143 per cavi EPR];

S = sezione del conduttore [mm2].

Generalmente la protezione dei cavi in bassa tensione è affidata a fusibili e/o interruttori automatici, generalmente di tipo termomagnetico come prescritto dalle CEI 64-8 mentre al relè termico la protezione in bassa tensione del trasformatore MT/BT avente $I'_{tr} \leq I_Z$ in modo tale che la corrente di taratura riportata al primario sia minore o uguale alla portata del cavo. Va in ogni caso precisato che trattandosi di un impianto fotovoltaico è da escludersi il sovraccarico in senso classico del termine.

In seguito al cortocircuito, il cavo deve sopportare le sollecitazioni termiche in modo tale da evitare che la temperatura interna sia inferiore alla temperatura di cortocircuito ammissibile per l'isolante. La scelta della sezione più idonea da realizzare e influenzata oltre che dalle correnti che

il cavo è chiamato a trasportare ma anche dal valore efficace della corrente di corto circuito, dal tempo di eliminazione del guasto e dal materiale costituente i cavi. Valutando la sovracorrente costante con fenomeno termico di breve durata e adiabatico (regime di puro accumulo), la sezione del conduttore MT più idonea dovrà soddisfare la seguente relazione (CEI 11-17):

$K^2S^2 \geq I^2t$

S[mm2] : sezione del conduttore

K : coefficiente dipendente dal tipo di conduttore e dalle temperature iniziali e finali del cortocircuito. I valori di riferimento sono indicati in Tab 4.2.2 della CEI 11-17.

I[A] : corrente di cortocircuito

t[s] : durata della corrente di cortocircuito

Nella valutazione del coefficiente K, le temperature massime di inizio cortocircuito e di fine cortocircuito sono ottenute dalla Tab 4.2.2a della Norma CEI 11-17.

5. PROTEZIONE CONTRO I CONTATTI DIRETTI

Gli impianti devono essere costruiti in modo da evitare il contatto non intenzionale con parti attive od il raggiungimento di zone pericolose (zone di guardia) prossime alle parti attive. Si devono proteggere le parti attive, quelle con il solo isolamento funzionale, e le parti che possono essere considerate a potenziale pericoloso.

La protezione contro i contatti diretti consiste nell'impedire il contatto con le parti attive nude o di portarsi ad una distanza tale per cui possa avvenire una scarica.

A tal fine, sono state introdotte le distanze di guardia (dg), di vincolo orizzontale (dvo) e verticale (dvv). La distanza di vincolo rappresenta la distanza minima tra la parte in tensione e la superficie sulla quale un operatore al lavoro può stare in posizione eretta, con entrambi i piedi appoggiati.

Le parti attive poste ad una distanza dalla suddetta superficie inferiore alla distanza di vincolo devono essere protette con pareti o barriere metalliche con grado di protezione almeno IP1XB (il dito di prova penetra all'interno dell'involucro ma non raggiunge le parti attive). Le pareti e le barriere di protezione devono essere alte almeno 2m dal piano di calpestio.

La superficie interna della barriera deve trovarsi ad una distanza dalle parti attive (non schermate) almeno uguale a quella di guardia dg. Tale distanza può essere ridotta alla distanza minima d'isolamento se la barriera ha un grado di protezione almeno IP3X (CEI 111 art.6.2.1).

Le misure di protezione contro i contatti diretti su indicate devono essere applicate anche nei confronti dei componenti isolati ma senza schermo metallico collegato a terra, ad esempio le

terminazioni del cavo, relativamente alla parte priva di schermo, e gli avvolgimenti in MT isolati in resina o nastrati dei trasformatori a secco.

6. COLLEGAMENTO A TERRA DEI CAVI IN MT

Gli schermi dei cavi MT sono considerati mezzi di protezione sufficienti contro i contatti indiretti in quanto verificano art 5.3.1 della Norma CEI 11-17, sono messi a terra ad entrambe le estremità di ogni tratta, in corrispondenza delle terminazioni. Tale modalità di collegamento è estesa anche ad i cavi in MT utilizzati per collegamenti corti, cavi fino a circa 1 Km.

7. COLLAUDO DEI CAVI MT DOPO LA POSA

La Norma CEI 11-17 raccomanda il collaudo dei cavi MT dopo la posa. Questo tipo di collaudo e volto a verificare l'esistenza di difetti, grossolani errori di confezionamento dei giunti e terminali e danneggiamenti intervenuti durante la posa.

L'effettuazione di tale prova di collaudo può essere decisa in relazione all'importanza del tratto di cavo e alle modalità seguite nella posa.

Sono riportate le prove di tensione da effettuare per cavi con 1kV≤ U0≤ 30kV.

ISOLANTE	PROVA CON TENSIONE CONTINUA [kV]	PROVA CON TENSIONE ALTERNATA [kV]	DURATA [min]
Polietilene Reticolato	3U0	2U0	15

Per i cavi isolati in XLPE o HEPR è da evitare la prova in corrente continua che può provocare tensioni di polarizzazione che combinandosi con la tensione di rete alla messa in servizio del cavo potrebbe esporre l'isolante a tensioni elevate con possibili deterioramenti dello stesso.

8. DESCRIZIONE GENERALE DELL'IMPIANTO

L'impianto agrovoltaico sarà di tipo grid-connected, con allaccio trifase in alta tensione a 150kV sulla RTN. L'impianto complessivo ha potenza nominale 32292.48 kWp con produzione di energia pari

a 51216000kWh al primo anno (equivalente a 1586.0 kWh/kWp).

L'energia dell'impianto complessivo è derivante da 53376 moduli che occupano una superficie fotovoltaica di 151060.27m² ed è composto da 22 gruppi di conversione.

Dati tecnici	
Superficie totale moduli	151060.27 m²
Numero totale moduli	53376
Tipo di modulo	605 Wp, Si-mono facciale
Potenza DC impianto	32292.48 kWp
Potenza AC impianto	29363 kW
Struttura di sostegno moduli fotovoltaici tipo 1	N. 783 - Tracker 2x32
Struttura di sostegno moduli fotovoltaici tipo 2	N.102 - Tracker 2x16
Asse principale struttura	Nord-Sud
Energia totale annua (al primo anno)	51216000 kWh
Energia per kWp	1586.0 kWh/kWp
Irraggiamento solare annua sul piano orizzontale	1576.3 kWh/m²

L'impianto verrà suddiviso in tre cluster che si collegheranno alla sottostazione di elevazione 150/30 kV e saranno costituiti nel seguente modo:

Cluster 1	
Aree A4,1-A4,2-A5,1-A5,2	
TIPO STRUTTURA	TRACKER
TIPO MODULO	605 Wp
POTENZA MODULO [Wp]	605
N° STRUTTURE 2X32	225
N° STRUTTURE 2X16	32
N°CU	6
POTENZA DC [kWp]	9331,52
POTENZA AC (cosfi=1) [kW]	8295
DC/AC	1,1250

Cluster 2	
Aree A2-A3,1-A3,2	
TIPO STRUTTURA	TRACKER
TIPO MODULO	605 Wp
POTENZA MODULO [Wp]	605
N° STRUTTURE 2X32	149
N° STRUTTURE 2X16	38
N°CU	6
POTENZA DC [kWp]	6504,96
POTENZA AC (cosfi=1) [kW]	5800
DC/AC	1,1215

Cluster 3	
Aree A1,1-A1,2	
TIPO STRUTTURA	TRACKER
TIPO MODULO	605 Wp
POTENZA MODULO [Wp]	605
N° STRUTTURE 2X32	409
N° STRUTTURE 2X16	32
N°CU	10
POTENZA DC [kWp]	16456,00
POTENZA AC (cosfi=1) [kW]	15268
DC/AC	1,0778

9. DESCRIZIONE DELLA FONTE UTILIZZATA

La disponibilità della fonte solare per il sito di installazione è stata verificata utilizzando i dati Meteonorm. Per la località dell'intervento, sita nel territorio comunale di San Giovanni Rotondo (FG) e Manfredonia (FG), si riportano i dati ambientali.

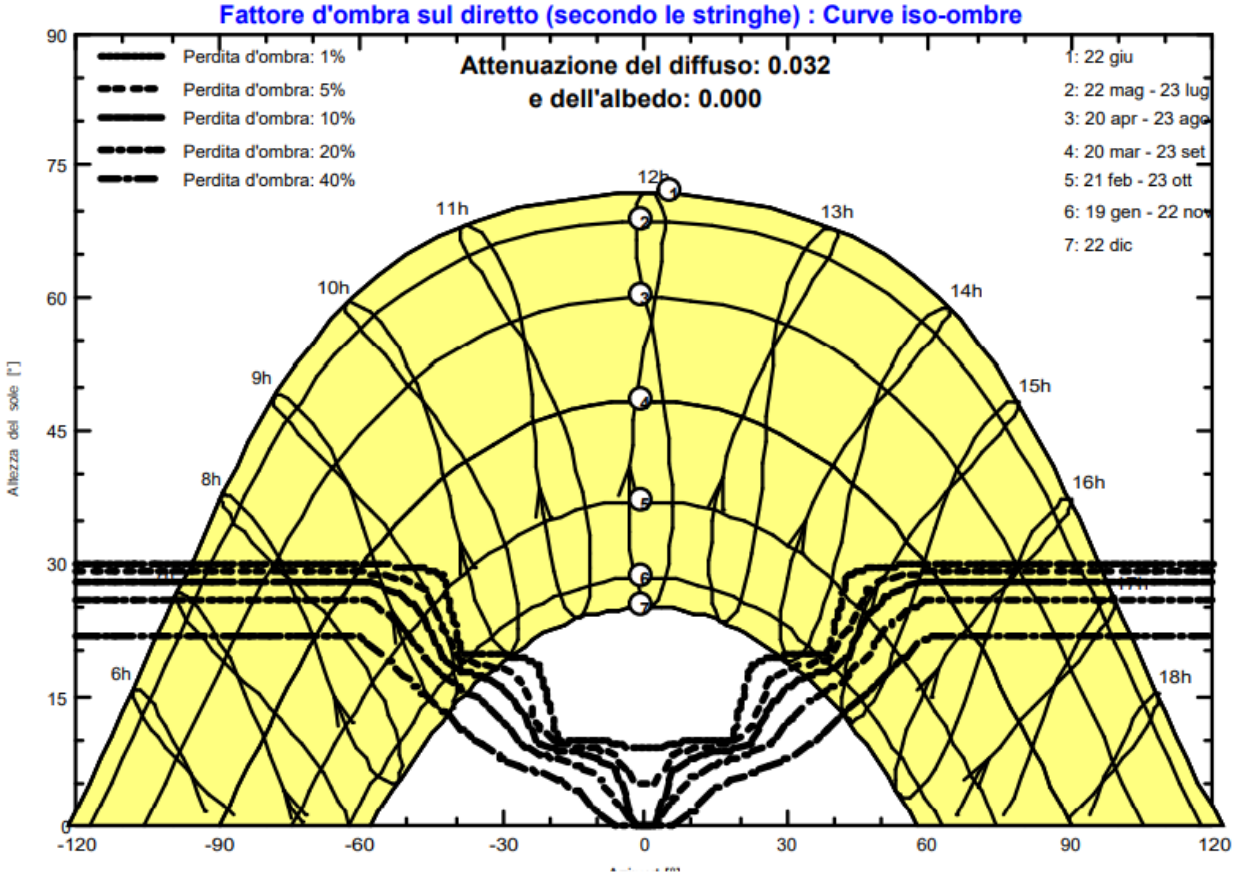
	GlobHor kWh/m²	DiffHor kWh/m²	T_Amb °C	GlobInc kWh/m²	GlobEff kWh/m²	EArray MWh	E_Grid MWh	PR ratio
Gennaio	59.8	26.79	7.11	87.2	74.3	1171	1110	0.773
Febbraio	77.5	32.94	7.46	112.2	96.0	1460	1373	0.743
Marzo	125.8	52.01	10.94	177.3	154.5	2319	2158	0.739
Aprile	157.2	72.24	13.98	207.9	185.8	2815	2605	0.762
Maggio	195.8	79.70	20.09	266.3	237.5	3486	3210	0.733
Giugno	206.8	83.64	24.21	275.9	248.9	3590	3306	0.728
Luglio	209.1	78.17	27.54	287.1	256.7	3646	3359	0.711
Agosto	187.6	71.05	26.98	256.0	228.8	3276	3025	0.718
Settembre	139.5	52.32	21.27	200.5	174.0	2513	2334	0.707
Ottobre	107.5	40.74	17.85	155.5	134.3	1946	1823	0.712
Novembre	60.7	27.95	12.29	86.4	73.3	1119	1058	0.743
Dicembre	49.0	22.95	8.66	72.4	60.3	948	902	0.757
Anno	1576.3	640.48	16.59	2185.0	1924.5	28287	26262	0.730

Legenda:
- GlobHor — Irraggiamento orizzontale globale
- DiffHor — Irraggiamento diffuso orizz.
- T_Amb — T amb.
- GlobInc — Globale incidente piano coll.
- GlobEff — Globale "effettivo", corr. per IAM e ombre
- EArray — Energia effettiva in uscita campo
- E_Grid — Energia immessa in rete
- PR — Indice di rendimento

Gli effetti di schermatura da parte di volumi all'orizzonte, dovuti ad elementi naturali come rilievi o artificiali come edifici o mura di recinzione, determinano la riduzione degli apporti solari e il tempo di ritorno dell'investimento.

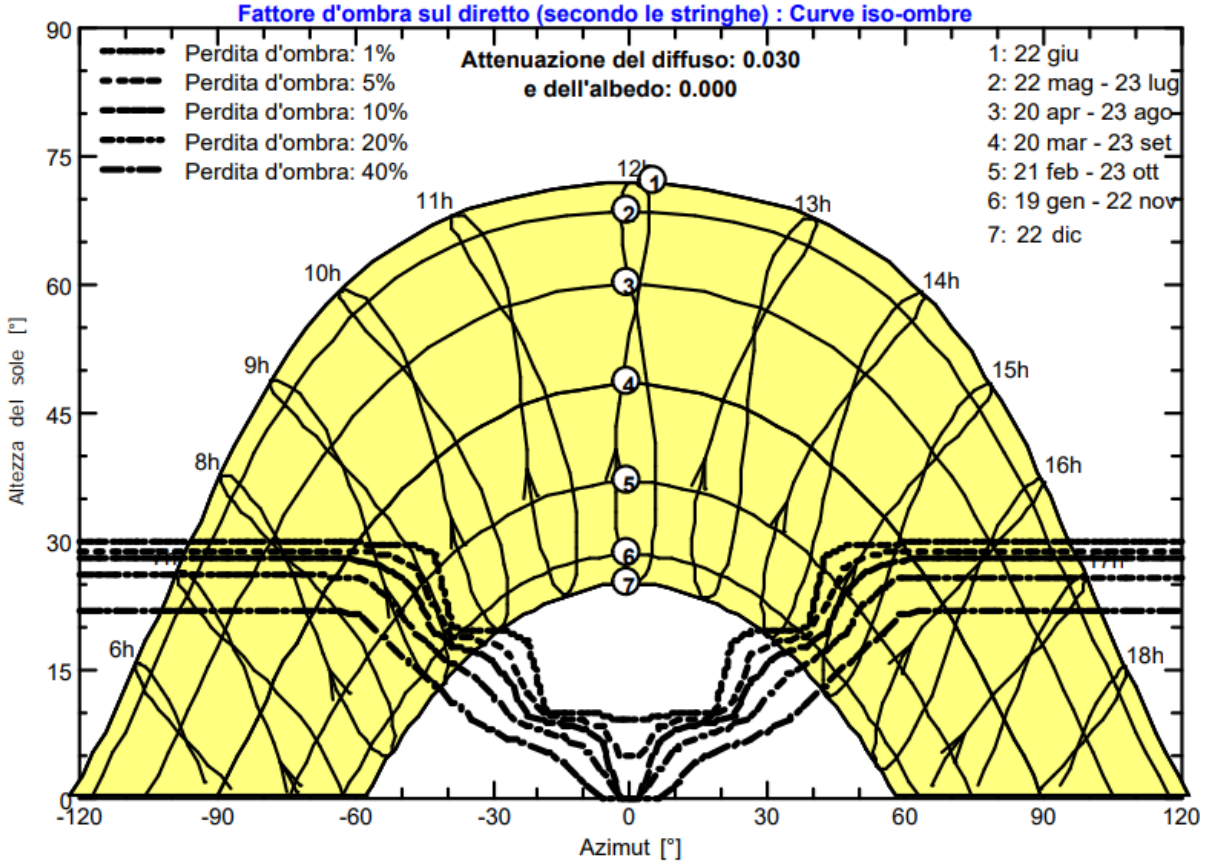
LA FEUDALE AREA A1

Fattore d'ombra sul diretto (secondo le stringhe) : Curve iso-ombre



LA FEUDALE AREA A2 & A3 & A4 & A5

Fattore d'ombra sul diretto (secondo le stringhe) : Curve iso-ombre



10. PRODUCIBILITÀ

Dal punto energetico, il criterio utilizzato nella scelta dell'esposizione del generatore fotovoltaico è quello di massimizzare la quantità di energia solare raccolta su base annua.

Tutti i moduli fotovoltaici hanno la stessa esposizione al fine di contenere le conseguenti perdite di mismatching.

Nel caso degli impianti in oggetto, il generatore fotovoltaico è di tipo tracker, per ridurre le perdite di energia sul generatore fotovoltaico e quindi massimizzare la produzione di energia, sono state fatte le seguenti scelte progettuali:

- le caratteristiche elettriche dei moduli (corrente di cortocircuito e corrente alla massima potenza) facenti parte della stessa stringa sono, per quanto possibile, identiche tra loro in modo da limitare le perdite di potenza per mismatching di corrente;
- le caratteristiche elettriche delle stringhe (tensione a vuoto e tensione alla massima potenza) facenti parte dello stesso campo fotovoltaico sono, per quanto possibile, identiche tra loro in modo da limitare le perdite di potenza per mismatching di tensione;
- il dimensionamento dei cavi è stato eseguito, in modo da limitare le cadute di tensione. La caduta di tensione sul lato in corrente continua non è superiore a 2 % mentre la caduta di tensione tra il trasformatore di potenza e il punto di consegna non è superiore a 0.5 %;
- la scelta della tensione del generatore fotovoltaico è stata fatta in modo da ridurre le correnti in gioco e quindi le perdite di potenza per effetto Joule.

L'energia totale annua prodotta al primo anno è 51216000 kWh.

Tutti i calcoli di producibilità sono presenti negli allegati a questa relazione a questa relazione.

11. RISPARMIO DI COMBUSTIBILE

Un utile indicatore per definire il risparmio di combustibile derivante dall'utilizzo di fonti energetiche rinnovabili è il fattore di conversione dell'energia elettrica in energia primaria [TEP/MWh], pari a 0.187 TEP/MWh.

Il T.E.P. (Tonnellate Equivalenti di Petrolio) valutato al primo anno di attività dell'impianto fotovoltaico è pari a 9577.39 decrescendo nel corso degli anni e raggiungendo un valore stimato al ventesimo anno pari a 84130.05, ipotizzando una perdita di efficienza annua del 0.90 %.

I risultati di calcolo sono presenti nei documenti allegati a questa relazione.

12. MODULO FOTOVOLTAICO

I moduli fotovoltaici considerati sono in silicio monocristallino monofacciale da 120 celle e potenza 605W ed efficienza fino a 21.4% con performance lineare garantita 25 anni. I moduli sono provvisti di cornice in alluminio.

Dimensioni: 2172×1303×35 mm, peso 30.9kg.

13. STRUTTURA FOTOVOLTAICA

I moduli fotovoltaici sono montati su strutture monoassiali ad inseguimento solare dette tracker, aventi asse principale posizionato nella direzione Nord-Sud e caratterizzate da un angolo di rotazione pari a +60° e a -60°. Nella configurazione elettrica di progetto si prevede l'installazione di due tipologie di vele fotovoltaiche con orientamento verticale dei moduli (Portrait):

- vela fotovoltaica (2x32) di dimensioni reali 4.35 m x 42.76 m, che consentirà l'installazione di 64 moduli che costituiranno due stringhe;
- vela fotovoltaica (2x16) di dimensioni reali 4.35 m x 21,72 m, che consentirà l'installazione di 32 moduli che costituiranno una sola stringa.

Ogni tracker utilizza dispositivi elettrici, elettromeccanici ed elettronici per seguire il sole nella sua traiettoria da Est verso Ovest.

Relativamente all'impianto è prevista l'installazione di 783 strutture per la tipologia 2x32 e 102 strutture per la tipologia 2x16.

14. CABINE DI IMPIANTO

L'impianto fotovoltaico è composto da 22 Conversion Unit.

Ogni Cabina di campo si compone di:

- Locale inverter contenente i, quadri bt, il trasformatore dei servizi ausiliari e i servizi ausiliari;
- Locale Trasformatore contiene un trasformatore di potenza;
- Locale quadri MT contenente i quadri MT.

Le cabine CU2, 5, 6, 7, 8, 9, 22 da 1995 kW, di dimensioni 8,25m x 2,40m accolgono al loro interno:

- Locale inverter contenente i quadri bt, il trasformatore dei servizi ausiliari e i servizi ausiliari;
- Locale Trasformatore contente un trasformatore di potenza;

- Locale quadri MT contenente i quadri MT.

Le cabine CU12, 13, 16, 17, 19, 20, 21 da 1500 kW, di dimensioni 8.25m x 2,40m accolgono al loro interno:

- Locale inverter contenente i quadri bt, il trasformatore dei servizi ausiliari e i servizi ausiliari;
- Locale Trasformatore contente un trasformatore di potenza;
- Locale quadri MT contenente i quadri MT.

La cabina CU4 da 998 kW, di dimensioni 6,50m x 2,40m accolgono al loro interno:

- Locale inverter contenente i quadri bt, il trasformatore dei servizi ausiliari e i servizi ausiliari;
- Locale Trasformatore contente un trasformatore di potenza;
- Locale quadri MT contenente i quadri MT.

Le cabine CU1, 3, 14, 15 da 500 kW, di dimensioni 6,50m x 2,40m accolgono al loro interno:

- Locale inverter contenente i quadri bt, il trasformatore dei servizi ausiliari e i servizi ausiliari;
- Locale Trasformatore contente un trasformatore di potenza;
- Locale quadri MT contenente i quadri MT.

Le cabine CU10, 11, 18 da 300 kW, di dimensioni 6,50m x 2,40m accolgono al loro interno:

- Locale inverter contenente i quadri bt, il trasformatore dei servizi ausiliari e i servizi ausiliari;
- Locale Trasformatore contente un trasformatore di potenza;
- Locale quadri MT contenente i quadri MT.

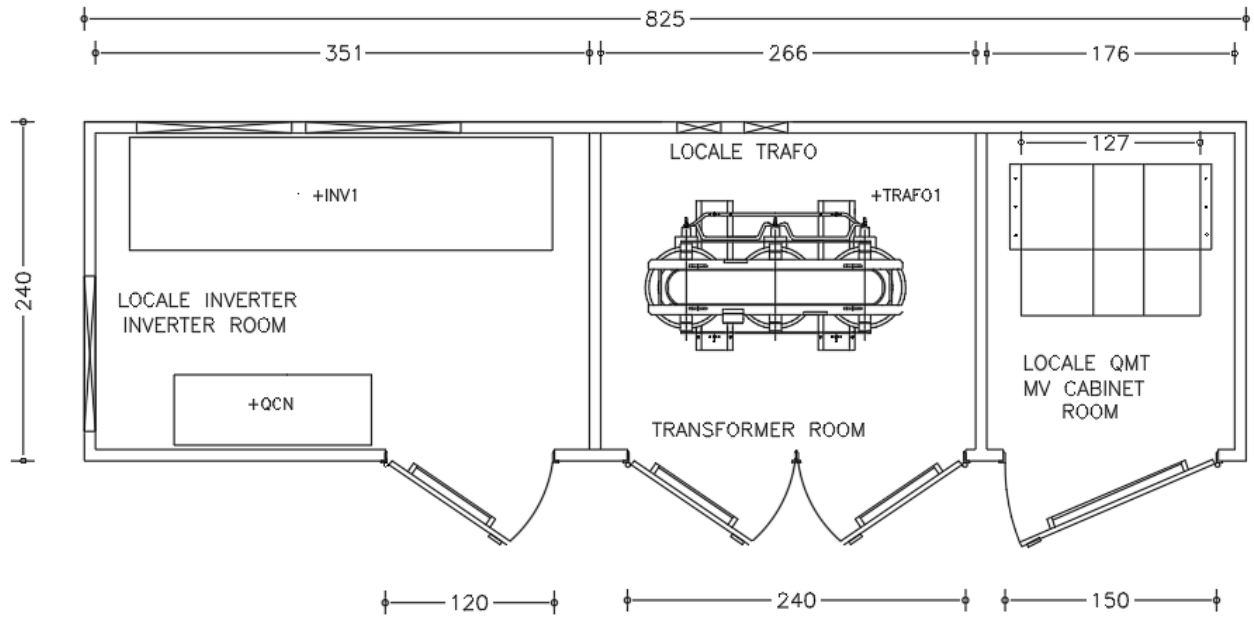


Figura 1: Pianta cabine di campo da 1995kW e 1500kW

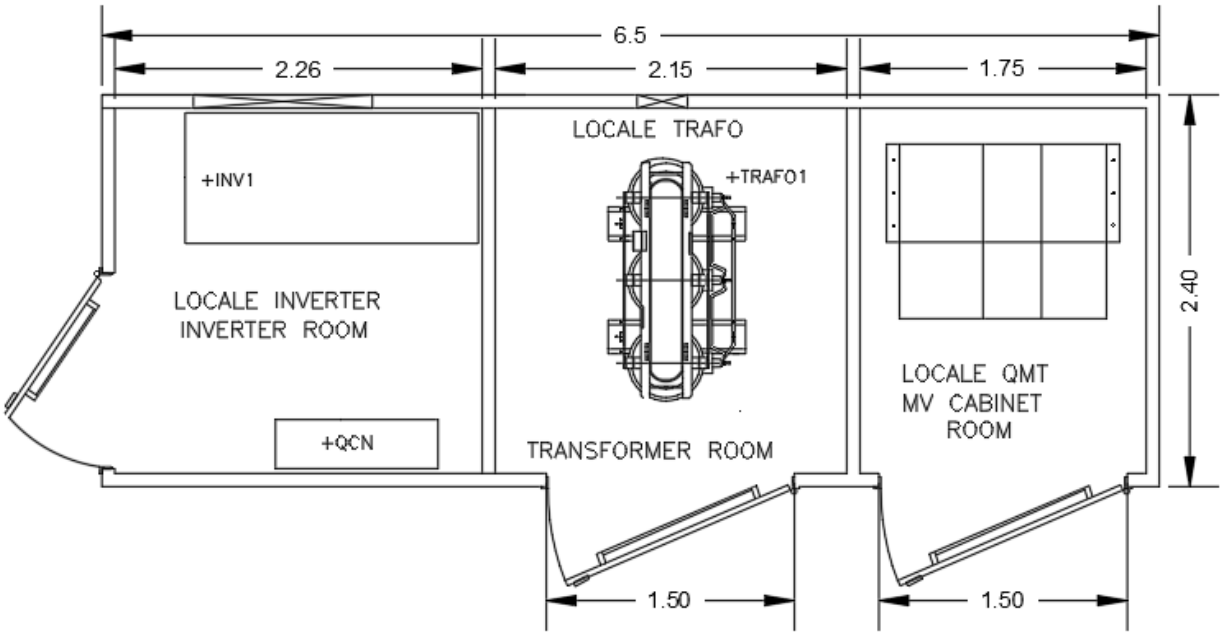


Figura 2: Pianta cabine di campo da 998Kw, 500 kW e 300 kW

L'impianto verrà suddiviso in tre cluster che si collegheranno alla sottostazione di elevazione 150/30 kV. L'assegnazione del cluster di ogni inverter e il suo relativo caricamento è descritto nelle tabelle seguenti:

CLUSTER 1		
CU. 22	N* MODULI	3456
	N* STRINGHE	108
	N* STUTTURE 2x32	49
	N* STRUTTURE 2x16	10
	POTENZA DC	2090,88
	POTENZA AC (a cosfi=1)	1995
	DC/AC	1,04806
CU. 21	N* MODULI	2880
	N* STRINGHE	90
	N* STUTTURE 2x32	43
	N* STRUTTURE 2x16	4
	POTENZA DC	1742,40
	POTENZA AC (a cosfi=1)	1500
	DC/AC	1,1616
CU. 20	N* MODULI	3008
	N* STRINGHE	94
	N* STUTTURE 2x32	43
	N* STRUTTURE 2x16	8
	POTENZA DC	1819,84
	POTENZA AC (a cosfi=1)	1500
	DC/AC	1,213227
CU. 19	N* MODULI	2688
	N* STRINGHE	84
	N* STUTTURE 2x32	40
	N* STRUTTURE 2x16	4
	POTENZA DC	1626,24
	POTENZA AC (a cosfi=1)	1500
	DC/AC	1,08416
CU. 12	N* MODULI	576
	N* STRINGHE	18
	N* STUTTURE 2x32	8
	N* STRUTTURE 2x16	2
	POTENZA DC	348,48
	POTENZA AC (a cosfi=1)	300
	DC/AC	1,1616
CU. 17	N* MODULI	2816
	N* STRINGHE	88
	N* STUTTURE 2x32	42
	N* STRUTTURE 2x16	4
	POTENZA DC	1703,68

	POTENZA AC (a cosfi=1)	1500
	DC/AC	1,135787

CLUSTER 2		
CU. 16	N* MODULI	2752
	N* STRINGHE	86
	N* STUTTURE 2x32	35
	N* STRUTTURE 2x16	16,00
	POTENZA DC	1664,96
	POTENZA AC (a cosfi=1)	1500
	DC/AC	1,109973
CU. 15	N* MODULI	1024
	N* STRINGHE	32
	N* STUTTURE 2x32	13
	N* STRUTTURE 2x16	6,00
	POTENZA DC	619,52
	POTENZA AC (a cosfi=1)	500
	DC/AC	1,23904
CU. 14	N* MODULI	1024
	N* STRINGHE	32
	N* STUTTURE 2x32	14
	N* STRUTTURE 2x16	4,00
	POTENZA DC	619,52
	POTENZA AC (a cosfi=1)	500
	DC/AC	1,23904
CU. 13	N* MODULI	2624
	N* STRINGHE	82
	N* STUTTURE 2x32	39
	N* STRUTTURE 2x16	4,00
	POTENZA DC	1587,52
	POTENZA AC (a cosfi=1)	1500
	DC/AC	1,058347
CU. 12	N* MODULI	2752
	N* STRINGHE	86
	N* STUTTURE 2x32	40
	N* STRUTTURE 2x16	6,00
	POTENZA DC	1664,96
	POTENZA AC (a cosfi=1)	1500
	DC/AC	1,109973
CU. 11	N* MODULI	576
	N* STRINGHE	18
	N* STUTTURE 2x32	8

	N* STRUTTURE 2x16	2,00
	POTENZA DC	348,48
	POTENZA AC (a cosfi=1)	300
	DC/AC	1,1616

CLUSTER 3		
CU. 6	N* MODULI	3456
	N* STRINGHE	108
	N* STUTTURE 2x32	52
	N* STRUTTURE 2x16	4,00
	POTENZA DC	2090,88
	POTENZA AC (a cosfi=1)	1995
	DC/AC	1,04806
CU. 7	N* MODULI	3456
	N* STRINGHE	108
	N* STUTTURE 2x32	52
	N* STRUTTURE 2x16	4,00
	POTENZA DC	2090,88
	POTENZA AC (a cosfi=1)	1995
	DC/AC	1,04806
CU. 8	N* MODULI	3456
	N* STRINGHE	108
	N* STUTTURE 2x32	51
	N* STRUTTURE 2x16	6,00
	POTENZA DC	2090,88
	POTENZA AC (a cosfi=1)	1995
	DC/AC	1,04806
CU. 5	N* MODULI	3456
	N* STRINGHE	108
	N* STUTTURE 2x32	54
	N* STRUTTURE 2x16	0,00
	POTENZA DC	2090,88
	POTENZA AC (a cosfi=1)	1995
	DC/AC	1,04806
CU. 4	N* MODULI	1792
	N* STRINGHE	56
	N* STUTTURE 2x32	26
	N* STRUTTURE 2x16	4,00
	POTENZA DC	1084,16
	POTENZA AC (a cosfi=1)	998
	DC/AC	1,086333

CU. 3	N* MODULI	2624
	N* STRINGHE	82
	N* STUTTURE 2x32	39
	N* STRUTTURE 2x16	4,00
	POTENZA DC	1587,52
	POTENZA AC (a cosfi=1)	1500
	DC/AC	1,058347
CU. 2	N* MODULI	3520
	N* STRINGHE	110
	N* STUTTURE 2x32	53
	N* STRUTTURE 2x16	4,00
	POTENZA DC	2129,60
	POTENZA AC (a cosfi=1)	1995
	DC/AC	1,067469
CU. 1	N* MODULI	896
	N* STRINGHE	28
	N* STUTTURE 2x32	13
	N* STRUTTURE 2x16	2,00
	POTENZA DC	542,08
	POTENZA AC (a cosfi=1)	500
	DC/AC	1,08416
CU. 10	N* MODULI	576
	N* STRINGHE	18
	N* STUTTURE 2x32	9
	N* STRUTTURE 2x16	0,00
	POTENZA DC	348,48
	POTENZA AC (a cosfi=1)	300
	DC/AC	1,1616
CU. 9	N* MODULI	3968
	N* STRINGHE	124
	N* STUTTURE 2x32	60
	N* STRUTTURE 2x16	4,00
	POTENZA DC	2400,64
	POTENZA AC (a cosfi=1)	1995
	DC/AC	1,203328

15. ELETTRODOTTI DI IMPIANTO

Per la completa comprensione dei tracciati dei cavi oltreché delle connessioni interne all'impianto, si sottolinea che i cavi previsti per trasporto dell'energia fino al punto di consegna, avranno alluminio come materiale conduttore e sezioni tali da contenere entro i limiti ammessi le cadute di tensione lungo il percorso.

Si è posta particolare attenzione all'individuazione dei tracciati dei cavi, sia per evitare l'esposizione a nuovi campi elettromagnetici (comunque accettabili nel caso in esame) di fabbricati di frequente accesso, sia per evitare interferenze con zone in dissesto e vincoli territoriali.

Parallelamente ai cavi per il trasporto dell'energia prodotta dall'impianto, viaggeranno i cavi in fibra ottica a servizio del sistema di tele – controllo e di trasmissione dati.

Il tracciato del cavidotto per l'elettrodotto di connessione, segue il percorso individuato dalla viabilità esistente e si sviluppa per una lunghezza massima di 9.23 km circa.

La materia è disciplinata, eccezione fatta per i riempimenti, dalla CEI 11-17. In particolare detta norma stabilisce che l'integrità dei cavi deve essere garantita da una robusta protezione meccanica supplementare, in grado di assorbire, senza danni per il cavo stesso, le sollecitazioni meccaniche, statiche e dinamiche, derivanti dal traffico veicolare (resistenza a schiacciamento) e dagli abituali attrezzi manuali di scavo (resistenza a urto). La profondità minima di posa, con cavidotti in MT, per le strade di uso pubblico è fissata dal Nuovo Codice della Strada ad 1 m dall'estradosso della protezione (tubo); per tutti gli altri suoli e le strade di uso privato valgono i valori stabiliti dalla CEI 11-17 che fissa le profondità minime di:

- 0,6 m (su terreno privato);
- 0,8 m (su terreno pubblico).

Nell'ambito del progetto, i cavi bt di stringa dovranno essere del tipo H1Z2Z2-K. La posa deve essere prevista in canalina metallica ancorata alle strutture di sostegno moduli ove necessario in tubo corrugate interrato.

I cavi bt di collegamento tra gli Sting Box e il quadro di campo QPPI, presente nell'inverter, dovranno essere del tipo ARG70R 0.6/1kV con sezione minima calcolata tenendo conto di una caduta di tensione massima ammissibile <2% (calcolata come la somma della caduta di tensione sul tratto string box – inverter e la caduta d tensione sui cavi di collegamento stringhe – string box).

I cavi MT dovranno essere in alluminio con formazione ad elica visibile del tipo ARE4H5EX 18/30kV di varie sezioni, con posa interrata entro corrugato a quota minima -1.00 m. Il cavo di collegamento con la sottostazione ARE4H5E 18/30kV con sezione minima calcolata tenendo conto di una caduta di tensione massima ammissibile e con posa interrata a -1.00m ÷ -1.20 m entro tubo corrugato di tipo pesante aventi caratteristiche meccaniche DN160.

La presenza dei cavi interrati deve essere rilevabile mediante l'apposito nastro monitore posato a non meno di 0,2 m dall'estradosso del cavo. Le modalità di fissaggio della fune per il traino del cavo, le sollecitazioni massime applicabili e i raggi di curvatura massimi sono stabilite dalla CEI 20-89 art 8.2.4 e dalla CEI 11-17 art 4.3.2. Di norma non sono da prevedere pozzetti o camerette di posa dei cavi in corrispondenza di giunti e deviazioni del tracciato. Dalla CEI 11-17, la profondità minima di posa, per cavidotti in BT, è fissata a 0.5 m dall'estradosso del cavo e la presenza dei cavi deve essere rilevabile mediante l'apposito nastro monitore posato a non meno di 0,2 m dall'estradosso del cavo.

Durante le operazioni di posa dei cavi per installazione fissa le Norme CEI 11-17 all'articolo 2.3.03 prescrivono che i raggi di curvatura misurati sulla generatrice interna dei cavi, non devono mai essere inferiori a:

16 D per cavi sotto guaina in piombo

14 D per cavi con schermatura a fili o nastri o a conduttore concentrico

12 D per cavi senza alcun rivestimento metallico

dove D = diametro esterno

La temperatura minima di posa del cavo in oggetto, nel rispetto delle indicazioni fornite dal costruttore, non è inferiore a 0°C.

La progettazione del cavidotto sotterraneo in bassa e media tensione è improntata a criteri di sicurezza, sia per quanto attiene le modalità di realizzazione sia per quanto concerne la compatibilità in esercizio con le opere interferite. La progettazione è improntata all'ottimizzazione del tracciato di posa in funzione del costo del cavo in opera, tenendo in particolare considerazione la riduzione dei tempi e dei costi di realizzazione. Non risultano noti in questa fase altri servizi esistenti nel sottosuolo, quali: acquedotti, cavi elettrici o telefonici, cavi dati, fognature ecc.

Durante le operazioni di posa del cavo ARE4H5EX e ARE4H5E 18/30kV il raggio di curvatura minimo di posa rispetterà quanto previsto dalle specifiche del produttore.

Sistema connesso in rete: Parametri di simulazione

Progetto : **LA FEUDALE AREA A1**

Luogo geografico	**Villaggio Amendola**		Paese	**Italia**
Ubicazione	Latitudine	41.55° N	Longitudine	15.75° E
Tempo definito come	Ora legale	Fuso orario TU+1	Altitudine	11 m
	Albedo	0.20		
Dati meteo:	**Villaggio Amendola**	Meteonorm 7.3 (1986-2005) - Sintetico		

Variante di simulazione : **Nuova variante di simulazione**

Data di simulazione 01/09/21 16h36

Parametri di simulazione	Tipo di sistema	**Sistema inseguitori**		
Piano a inseguimento, asse inclinato	Inclinazione asse	0°	Asse dell'azimut	0°
Limitazioni di rotazione	Phi minimo	-60°	Phi massimo	60°
	Algoritmo dell'inseguimento	Calcolo astronomico		
Configurazione inseguitori	N. di eliostati	441	Campo (array) identico	
	Distanza eliostati	5.00 m	Larghezza collettori	4.35 m
Angoli limite ombreggiamento	Limiti phi	+/- 29.3°	Fattore occupazione (GCR)	87.0%
Modelli utilizzati	Trasposizione	Perez	Diffuso	Perez, Meteonorm
			Circumsolare	separare
Orizzonte	Altezza media	2.2°		
Ombre vicine	Secondo le stringhe dei moduli		Effetto elettrico	100 %
Bisogni dell'utente :	Carico illimitato (rete)			

Caratteristiche campi FV (10 tipi di campi definiti)

Modulo FV	Si-mono	Modello	**TSM-605DE20**	
PVsyst database originale		Costruttore	Trina Solar	

Sottocampo

#1 - Campo FV

Numero di moduli FV	In serie	32 moduli	In parallelo	28 stringhe
Numero totale di moduli FV	n. di moduli	896	Potenza nom. unit.	605 Wp
Potenza globale campo	Nominale (STC)	**542 kWc**	In cond. di funz.	496 kWc (50°C)
Caratt. di funzionamento campo FV (50°C)	U mpp	1000 V	I mpp	496 A

#2 - Sottocampo #2

Numero di moduli FV	In serie	32 moduli	In parallelo	110 stringhe
Numero totale di moduli FV	n. di moduli	3520	Potenza nom. unit.	605 Wp
Potenza globale campo	Nominale (STC)	**2130 kWc**	In cond. di funz.	1950 kWc (50°C)
Caratt. di funzionamento campo FV (50°C)	U mpp	1000 V	I mpp	1949 A

#3 - Sottocampo #3

Numero di moduli FV	In serie	32 moduli	In parallelo	82 stringhe
Numero totale di moduli FV	n. di moduli	2624	Potenza nom. unit.	605 Wp
Potenza globale campo	Nominale (STC)	**1588 kWc**	In cond. di funz.	1454 kWc (50°C)
Caratt. di funzionamento campo FV (50°C)	U mpp	1000 V	I mpp	1453 A

#4 - Sottocampo #4

Numero di moduli FV	In serie	32 moduli	In parallelo	56 stringhe
Numero totale di moduli FV	n. di moduli	1792	Potenza nom. unit.	605 Wp
Potenza globale campo	Nominale (STC)	**1084 kWc**	In cond. di funz.	993 kWc (50°C)
Caratt. di funzionamento campo FV (50°C)	U mpp	1000 V	I mpp	992 A

Sistema connesso in rete: Parametri di simulazione

#5 - Sottocampo #5

Numero di moduli FV	In serie	32 moduli	In parallelo	108 stringhe
Numero totale di moduli FV	n. di moduli	3456	Potenza nom. unit.	605 Wp
Potenza globale campo	Nominale (STC)	**2091 kWc**	In cond. di funz.	1915 kWc (50°C)
Caratt. di funzionamento campo FV (50°C)	U mpp	1000 V	I mpp	1914 A

#6 - Sottocampo #6

Numero di moduli FV	In serie	32 moduli	In parallelo	108 stringhe
Numero totale di moduli FV	n. di moduli	3456	Potenza nom. unit.	605 Wp
Potenza globale campo	Nominale (STC)	**2091 kWc**	In cond. di funz.	1915 kWc (50°C)
Caratt. di funzionamento campo FV (50°C)	U mpp	1000 V	I mpp	1914 A

#7 - Sottocampo #7

Numero di moduli FV	In serie	32 moduli	In parallelo	108 stringhe
Numero totale di moduli FV	n. di moduli	3456	Potenza nom. unit.	605 Wp
Potenza globale campo	Nominale (STC)	**2091 kWc**	In cond. di funz.	1915 kWc (50°C)
Caratt. di funzionamento campo FV (50°C)	U mpp	1000 V	I mpp	1914 A

#8 - Sottocampo #8

Numero di moduli FV	In serie	32 moduli	In parallelo	108 stringhe
Numero totale di moduli FV	n. di moduli	3456	Potenza nom. unit.	605 Wp
Potenza globale campo	Nominale (STC)	**2091 kWc**	In cond. di funz.	1915 kWc (50°C)
Caratt. di funzionamento campo FV (50°C)	U mpp	1000 V	I mpp	1914 A

#9 - Sottocampo #9

Numero di moduli FV	In serie	32 moduli	In parallelo	124 stringhe
Numero totale di moduli FV	n. di moduli	3968	Potenza nom. unit.	605 Wp
Potenza globale campo	Nominale (STC)	**2401 kWc**	In cond. di funz.	2198 kWc (50°C)
Caratt. di funzionamento campo FV (50°C)	U mpp	1000 V	I mpp	2197 A

#10 - Sottocampo #10

Numero di moduli FV	In serie	32 moduli	In parallelo	18 stringhe
Numero totale di moduli FV	n. di moduli	576	Potenza nom. unit.	605 Wp
Potenza globale campo	Nominale (STC)	**348 kWc**	In cond. di funz.	319 kWc (50°C)
Caratt. di funzionamento campo FV (50°C)	U mpp	1000 V	I mpp	319 A

Totale Potenza globale campi	Nominale (STC)	**16456 kWp**	Totale	27200 moduli
	Superficie modulo	**76979 m²**	Superficie cella	71971 m²

Sottocampo - Inverter

#1 - Campo FV	Modello	**SUNWAY TG 900 1500V TE - 640**		
PVsyst database originale	Costruttore	Santerno		
Caratteristiche	Potenza nom. unit.	**500 kWac**	Tensione funz.	910-1200 V
Gruppo di inverter	Potenza totale	**500 kWac**	Rapporto Pnom	1.08
	N. di inverter	1 unità		
#2 - Sottocampo #2	Modello	**SUNWAY TG 1800 1500V TE - 640**		
PVsyst database originale	Costruttore	Santerno		
Caratteristiche	Potenza nom. unit.	**1774 kWac**	Tensione funz.	905-1200 V
	Potenza max. (=>25°C)	1995 kWac		
Gruppo di inverter	Potenza totale	**1774 kWac**	Rapporto Pnom	1.20
	N. di inverter	2 * MPPT 50%		
#3 - Sottocampo #3	Modello	**SUNWAY TG 1800 1500V TE - 640 (1500 kVA)**		
PVsyst database originale	Costruttore	Santerno		
Caratteristiche	Potenza nom. unit.	**1500 kWac**	Tensione funz.	910-1200 V
Gruppo di inverter	Potenza totale	**1500 kWac**	Rapporto Pnom	1.06
	N. di inverter	2 * MPPT 50%		

Sistema connesso in rete: Parametri di simulazione

#4 - Sottocampo #4	Modello	**SUNWAY TG 900 1500V TE - 640**		
PVsyst database originale	Costruttore	Santerno		
Caratteristiche	Potenza nom. unit.	**887 kWac**	Tensione funz.	910-1200 V
	Potenza max. (=>25°C)	998 kWac		
Gruppo di inverter	Potenza totale	**887 kWac**	Rapporto Pnom	1.22
	N. di inverter	1 unità		
#5 - Sottocampo #5	Modello	**SUNWAY TG 1800 1500V TE - 640**		
PVsyst database originale	Costruttore	Santerno		
Caratteristiche	Potenza nom. unit.	**1774 kWac**	Tensione funz.	905-1200 V
	Potenza max. (=>25°C)	1995 kWac		
Gruppo di inverter	Potenza totale	**1774 kWac**	Rapporto Pnom	1.18
	N. di inverter	2 * MPPT 50%		
#6 - Sottocampo #6	Modello	**SUNWAY TG 1800 1500V TE - 640**		
PVsyst database originale	Costruttore	Santerno		
Caratteristiche	Potenza nom. unit.	**1774 kWac**	Tensione funz.	905-1200 V
	Potenza max. (=>25°C)	1995 kWac		
Gruppo di inverter	Potenza totale	**1774 kWac**	Rapporto Pnom	1.18
	N. di inverter	2 * MPPT 50%		
#7 - Sottocampo #7	Modello	**SUNWAY TG 1800 1500V TE - 640**		
PVsyst database originale	Costruttore	Santerno		
Caratteristiche	Potenza nom. unit.	**1774 kWac**	Tensione funz.	905-1200 V
	Potenza max. (=>25°C)	1995 kWac		
Gruppo di inverter	Potenza totale	**1774 kWac**	Rapporto Pnom	1.18
	N. di inverter	2 * MPPT 50%		
#8 - Sottocampo #8	Modello	**SUNWAY TG 1800 1500V TE - 640**		
PVsyst database originale	Costruttore	Santerno		
Caratteristiche	Potenza nom. unit.	**1774 kWac**	Tensione funz.	905-1200 V
	Potenza max. (=>25°C)	1995 kWac		
Gruppo di inverter	Potenza totale	**1774 kWac**	Rapporto Pnom	1.18
	N. di inverter	2 * MPPT 50%		
#9 - Sottocampo #9	Modello	**SUNWAY TG 1800 1500V TE - 640**		
PVsyst database originale	Costruttore	Santerno		
Caratteristiche	Potenza nom. unit.	**1774 kWac**	Tensione funz.	905-1200 V
	Potenza max. (=>25°C)	1995 kWac		
Gruppo di inverter	Potenza totale	**1774 kWac**	Rapporto Pnom	1.35
	N. di inverter	2 * MPPT 50%		
#10 - Sottocampo #10	Modello	**SUNWAY TG 900 1500V TE - 600- cop 300**		
PVsyst database originale	Costruttore	Santerno		
Caratteristiche	Potenza nom. unit.	**300 kWac**	Tensione funz.	850-1200 V
Gruppo di inverter	Potenza totale	**300 kWac**	Rapporto Pnom	1.16
	N. di inverter	1 unità		

Fattori di perdita campo FV

Perdite per sporco campo			Fraz. perdite	3.0 %
Fatt. di perdita termica	Uc (cost)	29.0 W/m²K	Uv (vento)	0.0 W/m²K / m/s
Perdita ohmica di cablaggio	Campo #1	33 mΩ	Fraz. perdite	1.5 % a STC
	Campo #2	8.4 mΩ	Fraz. perdite	1.5 % a STC
	Campo #3	11 mΩ	Fraz. perdite	1.5 % a STC
	Campo #4	17 mΩ	Fraz. perdite	1.5 % a STC
	Campo #5	8.6 mΩ	Fraz. perdite	1.5 % a STC
	Campo #6	8.6 mΩ	Fraz. perdite	1.5 % a STC
	Campo #7	8.6 mΩ	Fraz. perdite	1.5 % a STC
	Campo #8	8.6 mΩ	Fraz. perdite	1.5 % a STC
	Campo #9	7.5 mΩ	Fraz. perdite	1.5 % a STC
	Campo #10	52 mΩ	Fraz. perdite	1.5 % a STC
	Globale		Fraz. perdite	1.5 % a STC
Perdita diodo di serie	Perdita di Tensione	0.7 V	Fraz. perdite	0.1 % a STC

Sistema connesso in rete: Parametri di simulazione

LID - Light Induced Degradation	Fraz. perdite	0.1 %
Perdita di qualità moduli	Fraz. perdite	-0.8 %
Perdite per mismatch del modulo	Fraz. perdite	2.0 % a MPP
Perdita disadattamento Stringhe	Fraz. perdite	0.10 %

#1 - Campo FV

Effetto d'incidenza, profilo definito utente (IAM): Profilo definito utente

0°	40°	50°	60°	70°	75°	80°	85°	90°
1.000	1.000	0.998	0.992	0.983	0.961	0.933	0.853	0.000

#2 - Sottocampo #2

Effetto d'incidenza, profilo definito utente (IAM): Profilo definito utente

0°	40°	50°	60°	70°	75°	80°	85°	90°
1.000	1.000	0.998	0.992	0.983	0.961	0.933	0.853	0.000

#3 - Sottocampo #3

Effetto d'incidenza, profilo definito utente (IAM): Profilo definito utente

0°	40°	50°	60°	70°	75°	80°	85°	90°
1.000	1.000	0.998	0.992	0.983	0.961	0.933	0.853	0.000

#4 - Sottocampo #4

Effetto d'incidenza, profilo definito utente (IAM): Profilo definito utente

0°	40°	50°	60°	70°	75°	80°	85°	90°
1.000	1.000	0.998	0.992	0.983	0.961	0.933	0.853	0.000

#5 - Sottocampo #5

Effetto d'incidenza, profilo definito utente (IAM): Profilo definito utente

0°	40°	50°	60°	70°	75°	80°	85°	90°
1.000	1.000	0.998	0.992	0.983	0.961	0.933	0.853	0.000

#6 - Sottocampo #6

Effetto d'incidenza, profilo definito utente (IAM): Profilo definito utente

0°	40°	50°	60°	70°	75°	80°	85°	90°
1.000	1.000	0.998	0.992	0.983	0.961	0.933	0.853	0.000

#7 - Sottocampo #7

Effetto d'incidenza, profilo definito utente (IAM): Profilo definito utente

0°	40°	50°	60°	70°	75°	80°	85°	90°
1.000	1.000	0.998	0.992	0.983	0.961	0.933	0.853	0.000

#8 - Sottocampo #8

Effetto d'incidenza, profilo definito utente (IAM): Profilo definito utente

0°	40°	50°	60°	70°	75°	80°	85°	90°
1.000	1.000	0.998	0.992	0.983	0.961	0.933	0.853	0.000

#9 - Sottocampo #9

Effetto d'incidenza, profilo definito utente (IAM): Profilo definito utente

0°	40°	50°	60°	70°	75°	80°	85°	90°
1.000	1.000	0.998	0.992	0.983	0.961	0.933	0.853	0.000

#10 - Sottocampo #10

Effetto d'incidenza, profilo definito utente (IAM): Profilo definito utente

0°	40°	50°	60°	70°	75°	80°	85°	90°
1.000	1.000	0.998	0.992	0.983	0.961	0.933	0.853	0.000

Fattori di perdita sistema

Perdite AC dall'inverter all'iniezione	Tensione inverter	640 Vac tri	
Sistema completo	Conduttori: 3 x 10000 mm²	1343 m	Fraz. perdite 10.0 % a STC

Sistema connesso in rete: Definizione orizzonte

Progetto : **LA FEUDALE AREA A1**

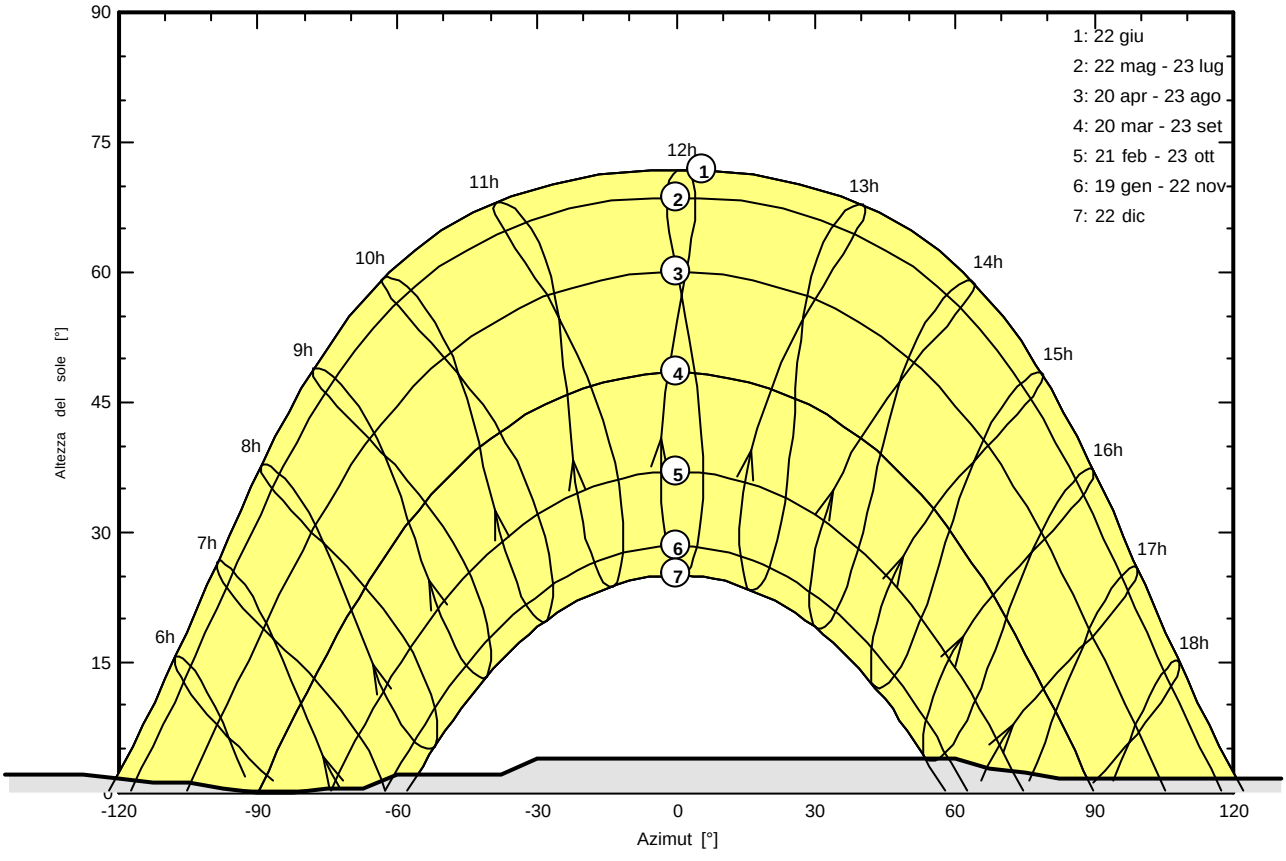
Variante di simulazione : **Nuova variante di simulazione**

Parametri principali del sistema	Tipo di sistema	**Sistema inseguitori**		
Orizzonte	Altezza media	2.2°		
Ombre vicine	Secondo le stringhe dei moduli		Effetto elettrico	100 %
Orientamento campo FV	asse inclinato, Inclinazione asse	0°	Asse dell'azimut	0°
Moduli FV	Modello	TSM-605DE20	Pnom	605 Wc
Campo FV	Numero di moduli	27200	Pnom totale	**16456 kWc**
Inverter	Modello	SUNWAY TG 900 1500V TE - 640		500 kW ac
Inverter		SUNWAY TG 1800 1500V TE - 640		1774 kW ac
Inverter		SUNWAY TG 1800 1500V TE - 640 (1500 kVA)		1500 kW ac
Inverter		SUNWAY TG 900 1500V TE - 640		887 kW ac
Inverter		SUNWAY TG 900 1500V TE - 600- cop 300		300 kW ac
Gruppo di inverter	Numero di unità	10.0	Pnom totale	**13831 kW ac**
Bisogni dell'utente	Carico illimitato (rete)			

Orizzonte	Altezza media	2.2°	Fattore su diffuso	0.96
	Fattore su albedo	100%	Frazione albedo	0.89

Altezza [°]	2.7	2.7	2.3	2.3	1.9	1.9	1.5	1.1	1.1	0.4	0.0	0.0	0.4	0.4
Azimut [°]	-180	-173	-165	-158	-150	-128	-120	-113	-105	-98	-90	-83	-75	-68
Altezza [°]	1.9	1.9	3.8	3.8	2.7	2.3	1.5	1.5	1.9	1.9	2.3	2.7	2.7	
Azimut [°]	-60	-38	-30	60	68	75	83	135	143	150	158	165	180	

Horizon from PVGIS website API, Lat=41°33"14', Long=15°44"50', Alt=11m



Sistema connesso in rete: Definizione ombre vicine

Progetto : **LA FEUDALE AREA A1**

Variante di simulazione : **Nuova variante di simulazione**

Parametri principali del sistema		Tipo di sistema	**Sistema inseguitori**		
Orizzonte		Altezza media	2.2°		
Ombre vicine	Secondo le stringhe dei moduli			Effetto elettrico	100 %
Orientamento campo FV	asse inclinato, Inclinazione asse		0°	Asse dell'azimut	0°
Moduli FV		Modello	TSM-605DE20	Pnom	605 Wc
Campo FV		Numero di moduli	27200	Pnom totale	**16456 kWc**
Inverter		SUNWAY TG 900 1500V TE - 640			500 kW ac
Inverter		SUNWAY TG 1800 1500V TE - 640			1774 kW ac
Inverter		SUNWAY TG 1800 1500V TE - 640 (1500 kVA)			1500 kW ac
Inverter		SUNWAY TG 900 1500V TE - 640			887 kW ac
Inverter		SUNWAY TG 900 1500V TE - 600- cop 300			300 kW ac
Gruppo di inverter		Numero di unità	10.0	Pnom totale	**13831 kW ac**
Bisogni dell'utente		Carico illimitato (rete)			

Prospettiva campo FV e area d'ombra circostante

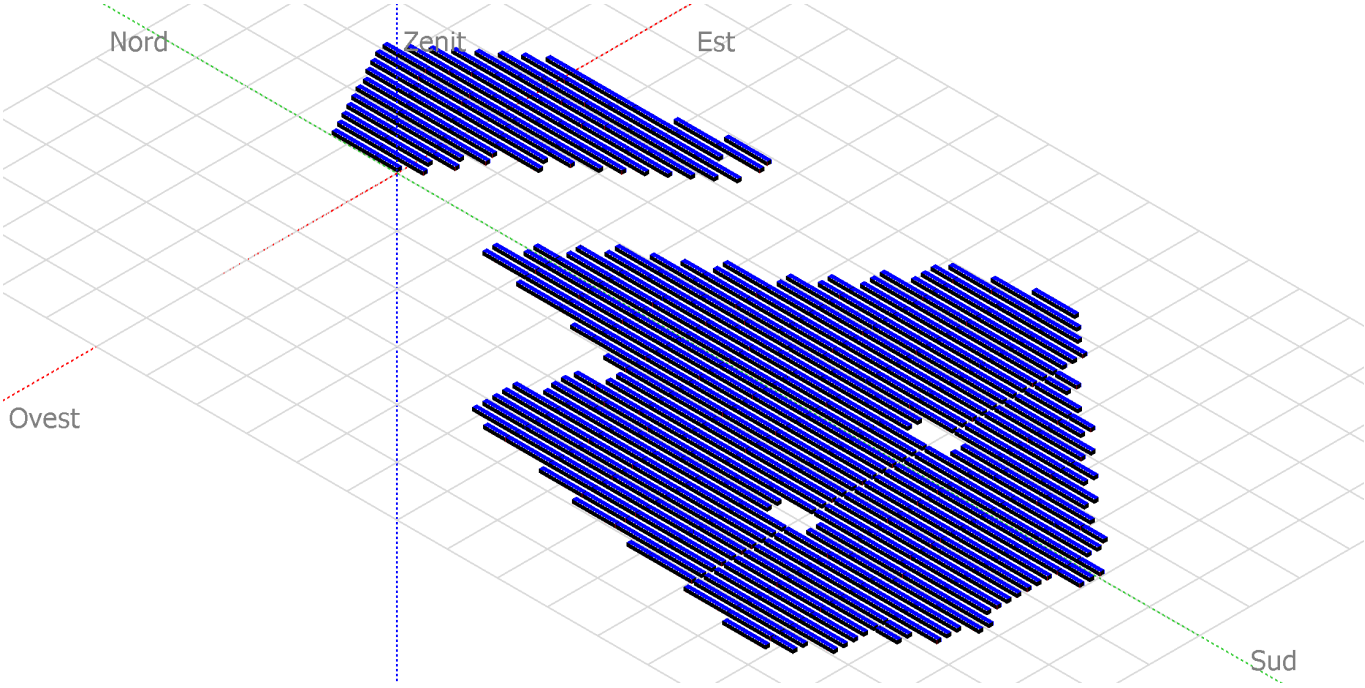
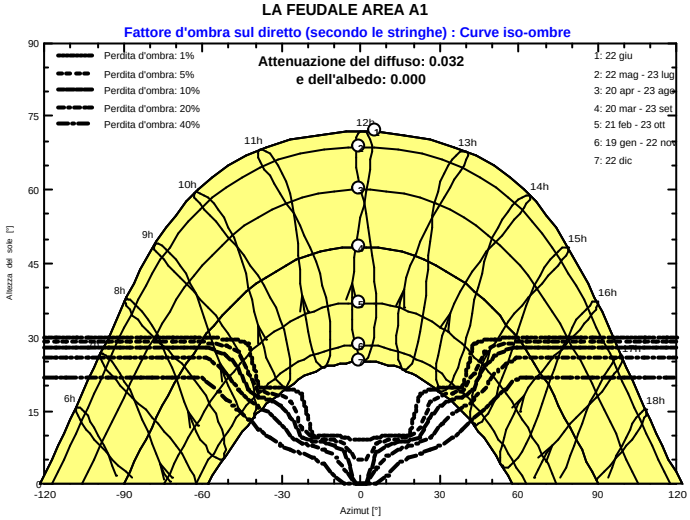


Diagramma iso-ombre



Sistema connesso in rete: Risultati principali

Progetto : **LA FEUDALE AREA A1**

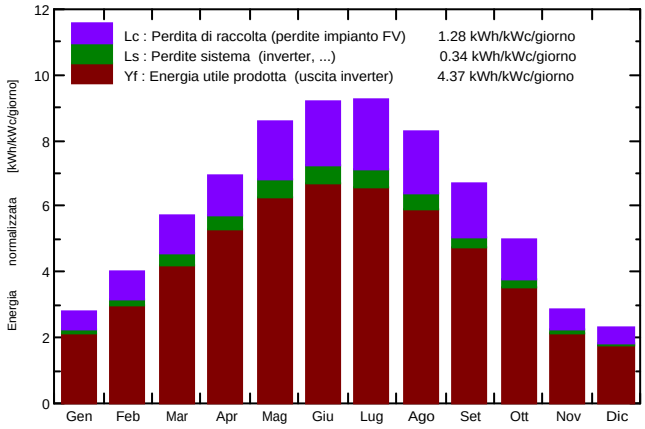
Variante di simulazione : **Nuova variante di simulazione**

Parametri principali del sistema		Tipo di sistema	**Sistema inseguitori**		
Orizzonte		Altezza media	2.2°		
Ombre vicine	Secondo le stringhe dei moduli			Effetto elettrico	100 %
Orientamento campo FV	asse inclinato, Inclinazione asse		0°	Asse dell'azimut	0°
Moduli FV		Modello	TSM-605DE20	Pnom	605 Wc
Campo FV		Numero di moduli	27200	Pnom totale	**16456 kWc**
Inverter		SUNWAY TG 900 1500V TE - 640			500 kW ac
Inverter		SUNWAY TG 1800 1500V TE - 640			1774 kW ac
Inverter		SUNWAY TG 1800 1500V TE - 640 (1500 kVA)			1500 kW ac
Inverter		SUNWAY TG 900 1500V TE - 640			887 kW ac
Inverter		SUNWAY TG 900 1500V TE - 600- cop 300			300 kW ac
Gruppo di inverter		Numero di unità	10.0	Pnom totale	**13831 kW ac**
Bisogni dell'utente		Carico illimitato (rete)			

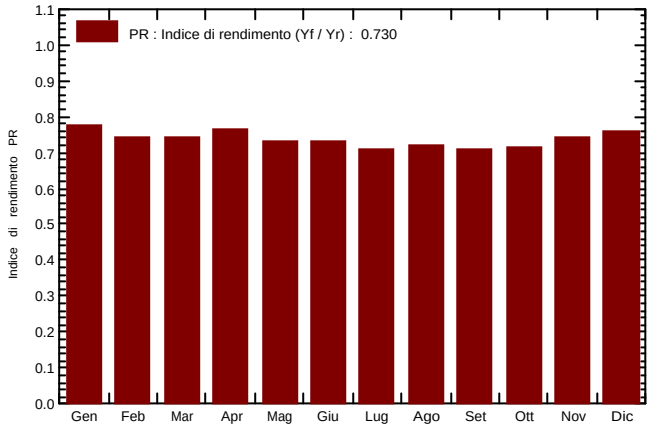
Risultati principali di simulazione

Produzione sistema	**Energia prodotta**	**26262 MWh/anno**	Prod. spec.	1596 kWh/kWc/anno
	Indice di rendimento PR	73.04 %		

Produzione normalizzata (per kWp installato): Potenza nominale 16456 kWc



Indice di rendimento PR



Nuova variante di simulazione

Bilanci e risultati principali

	GlobHor kWh/m²	DiffHor kWh/m²	T_Amb °C	GlobInc kWh/m²	GlobEff kWh/m²	EArray MWh	E_Grid MWh	PR ratio
Gennaio	59.8	26.79	7.11	87.2	74.3	1171	1110	0.773
Febbraio	77.5	32.94	7.46	112.2	96.0	1460	1373	0.743
Marzo	125.8	52.01	10.94	177.3	154.5	2319	2158	0.739
Aprile	157.2	72.24	13.98	207.9	185.8	2815	2605	0.762
Maggio	195.8	79.70	20.09	266.3	237.5	3486	3210	0.733
Giugno	206.8	83.64	24.21	275.9	248.9	3590	3306	0.728
Luglio	209.1	78.17	27.54	287.1	256.7	3646	3359	0.711
Agosto	187.6	71.05	26.98	256.0	228.8	3276	3025	0.718
Settembre	139.5	52.32	21.27	200.5	174.0	2513	2334	0.707
Ottobre	107.5	40.74	17.85	155.5	134.3	1946	1823	0.712
Novembre	60.7	27.95	12.29	86.4	73.3	1119	1058	0.743
Dicembre	49.0	22.95	8.66	72.4	60.3	948	902	0.757
Anno	1576.3	640.48	16.59	2185.0	1924.5	28287	26262	0.730

Legenda:

GlobHor	Irraggiamento orizzontale globale	GlobEff	Globale "effettivo", corr. per IAM e ombre
DiffHor	Irraggiamento diffuso orizz.	EArray	Energia effettiva in uscita campo
T_Amb	T amb.	E_Grid	Energia immessa in rete
GlobInc	Globale incidente piano coll.	PR	Indice di rendimento

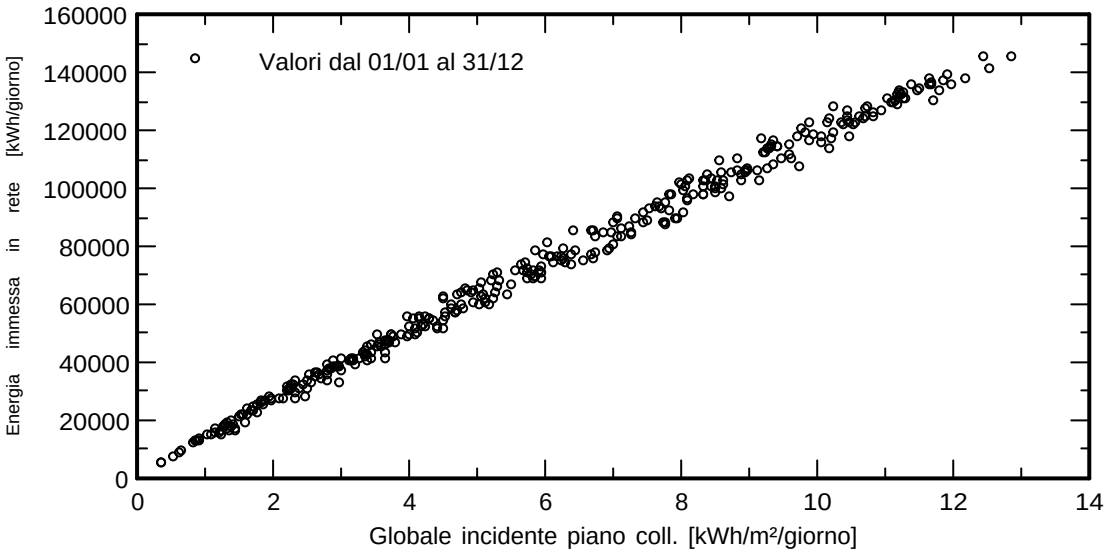
Sistema connesso in rete: Grafici speciali

Progetto : **LA FEUDALE AREA A1**

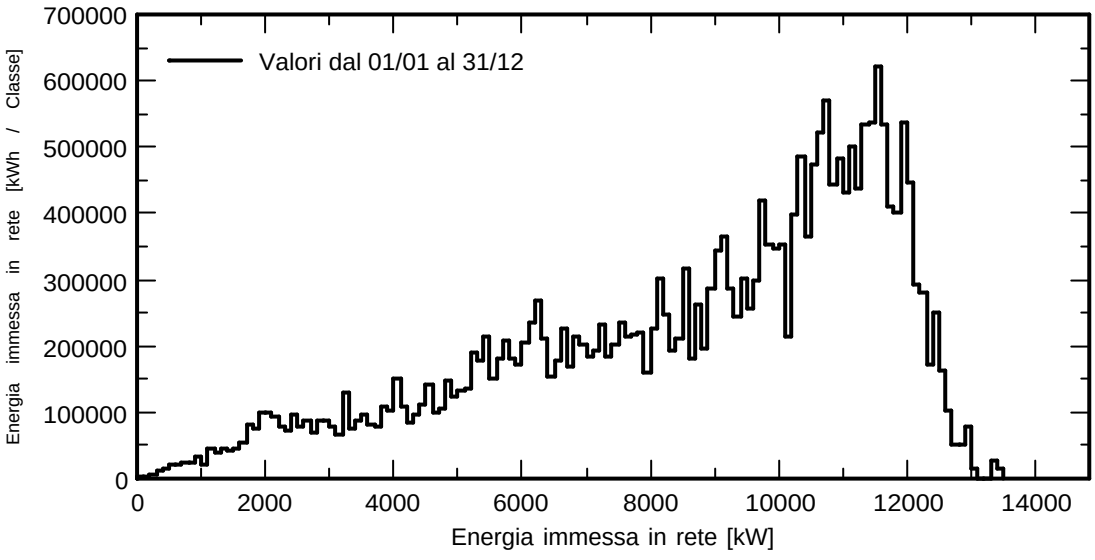
Variante di simulazione : **Nuova variante di simulazione**

Parametri principali del sistema	Tipo di sistema	**Sistema inseguitori**		
Orizzonte	Altezza media	2.2°		
Ombre vicine	Secondo le stringhe dei moduli		Effetto elettrico	100 %
Orientamento campo FV	asse inclinato, Inclinazione asse	0°	Asse dell'azimut	0°
Moduli FV	Modello	TSM-605DE20	Pnom	605 Wc
Campo FV	Numero di moduli	27200	Pnom totale	**16456 kWc**
Inverter	SUNWAY TG 900 1500V TE - 640			500 kW ac
Inverter	SUNWAY TG 1800 1500V TE - 640			1774 kW ac
Inverter	SUNWAY TG 1800 1500V TE - 640 (1500 kVA)			1500 kW ac
Inverter	SUNWAY TG 900 1500V TE - 640			887 kW ac
Inverter	SUNWAY TG 900 1500V TE - 600- cop 300			300 kW ac
Gruppo di inverter	Numero di unità	10.0	Pnom totale	**13831 kW ac**
Bisogni dell'utente	Carico illimitato (rete)			

Diagramma giornaliero entrata/uscita



Distribuzione potenza in uscita sistema



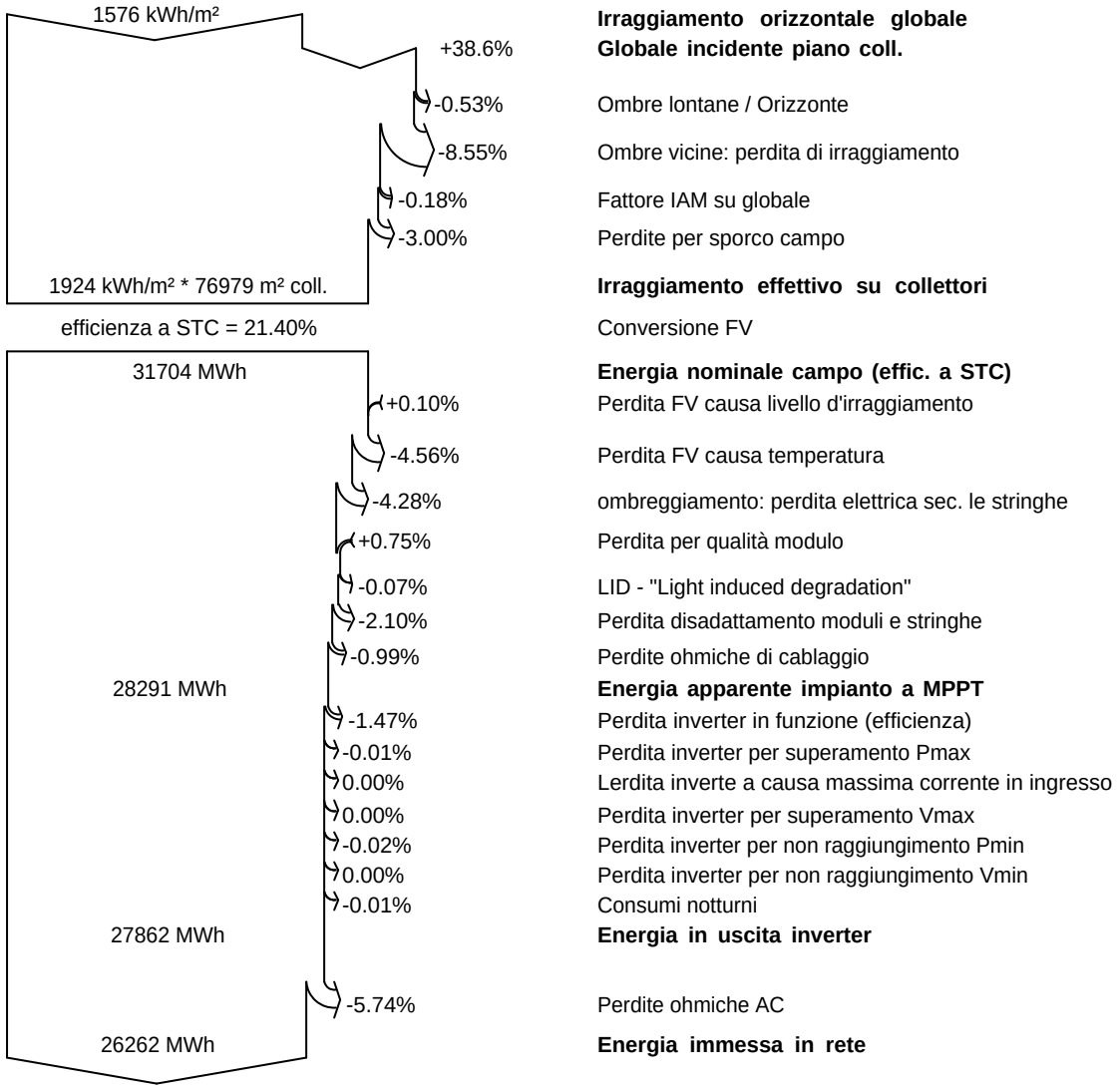
Sistema connesso in rete: Diagramma perdite

Progetto : **LA FEUDALE AREA A1**

Variante di simulazione : **Nuova variante di simulazione**

Parametri principali del sistema		Tipo di sistema	**Sistema inseguitori**		
Orizzonte		Altezza media	2.2°		
Ombre vicine	Secondo le stringhe dei moduli			Effetto elettrico	100 %
Orientamento campo FV	asse inclinato, Inclinazione asse		0°	Asse dell'azimut	0°
Moduli FV		Modello	TSM-605DE20	Pnom	605 Wc
Campo FV		Numero di moduli	27200	Pnom totale	**16456 kWc**
Inverter	SUNWAY TG 900 1500V TE - 640				500 kW ac
Inverter	SUNWAY TG 1800 1500V TE - 640				1774 kW ac
Inverter	SUNWAY TG 1800 1500V TE - 640 (1500 kVA)				1500 kW ac
Inverter	SUNWAY TG 900 1500V TE - 640				887 kW ac
Inverter	SUNWAY TG 900 1500V TE - 600- cop 300				300 kW ac
Gruppo di inverter		Numero di unità	10.0	Pnom totale	**13831 kW ac**
Bisogni dell'utente	Carico illimitato (rete)				

Diagramma perdite sull'anno intero



Sistema connesso in rete: Parametri di simulazione

Progetto : **LA FEUDALE AREA A2 & A3 & A4 & A5**

Luogo geografico	**Villaggio Amendola**		Paese	**Italia**
Ubicazione	Latitudine	41.55° N	Longitudine	15.75° E
Tempo definito come	Ora legale	Fuso orario TU+1	Altitudine	11 m
	Albedo	0.20		
Dati meteo:	**Villaggio Amendola**	Meteonorm 7.3 (1986-2005) - Sintetico		

Variante di simulazione : **Nuova variante di simulazione**

Data di simulazione 01/09/21 16h42

Parametri di simulazione	Tipo di sistema	**Sistema inseguitori**		
Piano a inseguimento, asse inclinato	Inclinazione asse	0°	Asse dell'azimut	0°
Limitazioni di rotazione	Phi minimo	-60°	Phi massimo	60°
	Algoritmo dell'inseguimento	Calcolo astronomico		
Configurazione inseguitori	N. di eliostati	444	Campo (array) identico	
	Distanza eliostati	5.00 m	Larghezza collettori	4.35 m
Angoli limite ombreggiamento	Limiti phi	+/- 29.3°	Fattore occupazione (GCR)	87.0%
Modelli utilizzati	Trasposizione	Perez	Diffuso	Perez, Meteonorm
			Circumsolare	separare
Orizzonte	Altezza media	2.2°		
Ombre vicine	Secondo le stringhe dei moduli		Effetto elettrico	100 %
Bisogni dell'utente :	Carico illimitato (rete)			

Caratteristiche campi FV (12 tipi di campi definiti)

Modulo FV	Si-mono	Modello	**TSM-605DE20**	
PVsyst database originale		Costruttore	Trina Solar	

Sottocampo

#1 - Sottocampo #11

Numero di moduli FV	In serie	32 moduli	In parallelo	18 stringhe
Numero totale di moduli FV	n. di moduli	576	Potenza nom. unit.	605 Wp
Potenza globale campo	Nominale (STC)	**348 kWc**	In cond. di funz.	319 kWc (50°C)
Caratt. di funzionamento campo FV (50°C)	U mpp	1000 V	I mpp	319 A

#2 - Sottocampo #12

Numero di moduli FV	In serie	32 moduli	In parallelo	86 stringhe
Numero totale di moduli FV	n. di moduli	2752	Potenza nom. unit.	605 Wp
Potenza globale campo	Nominale (STC)	**1665 kWc**	In cond. di funz.	1525 kWc (50°C)
Caratt. di funzionamento campo FV (50°C)	U mpp	1000 V	I mpp	1524 A

#3 - Sottocampo #13

Numero di moduli FV	In serie	32 moduli	In parallelo	82 stringhe
Numero totale di moduli FV	n. di moduli	2624	Potenza nom. unit.	605 Wp
Potenza globale campo	Nominale (STC)	**1588 kWc**	In cond. di funz.	1454 kWc (50°C)
Caratt. di funzionamento campo FV (50°C)	U mpp	1000 V	I mpp	1453 A

#4 - Sottocampo #14

Numero di moduli FV	In serie	32 moduli	In parallelo	32 stringhe
Numero totale di moduli FV	n. di moduli	1024	Potenza nom. unit.	605 Wp
Potenza globale campo	Nominale (STC)	**620 kWc**	In cond. di funz.	567 kWc (50°C)
Caratt. di funzionamento campo FV (50°C)	U mpp	1000 V	I mpp	567 A

Sistema connesso in rete: Parametri di simulazione

#5 - Sottocampo #15

Numero di moduli FV	In serie	32 moduli	In parallelo	32 stringhe
Numero totale di moduli FV	n. di moduli	1024	Potenza nom. unit.	605 Wp
Potenza globale campo	Nominale (STC)	**620 kWc**	In cond. di funz.	567 kWc (50°C)
Caratt. di funzionamento campo FV (50°C)	U mpp	1000 V	I mpp	567 A

#6 - Sottocampo #16

Numero di moduli FV	In serie	32 moduli	In parallelo	86 stringhe
Numero totale di moduli FV	n. di moduli	2752	Potenza nom. unit.	605 Wp
Potenza globale campo	Nominale (STC)	**1665 kWc**	In cond. di funz.	1525 kWc (50°C)
Caratt. di funzionamento campo FV (50°C)	U mpp	1000 V	I mpp	1524 A

#7 - Sottocampo #17

Numero di moduli FV	In serie	32 moduli	In parallelo	88 stringhe
Numero totale di moduli FV	n. di moduli	2816	Potenza nom. unit.	605 Wp
Potenza globale campo	Nominale (STC)	**1704 kWc**	In cond. di funz.	1560 kWc (50°C)
Caratt. di funzionamento campo FV (50°C)	U mpp	1000 V	I mpp	1559 A

#8 - Sottocampo #18

Numero di moduli FV	In serie	32 moduli	In parallelo	18 stringhe
Numero totale di moduli FV	n. di moduli	576	Potenza nom. unit.	605 Wp
Potenza globale campo	Nominale (STC)	**348 kWc**	In cond. di funz.	319 kWc (50°C)
Caratt. di funzionamento campo FV (50°C)	U mpp	1000 V	I mpp	319 A

#9 - Sottocampo #19

Numero di moduli FV	In serie	32 moduli	In parallelo	84 stringhe
Numero totale di moduli FV	n. di moduli	2688	Potenza nom. unit.	605 Wp
Potenza globale campo	Nominale (STC)	**1626 kWc**	In cond. di funz.	1489 kWc (50°C)
Caratt. di funzionamento campo FV (50°C)	U mpp	1000 V	I mpp	1489 A

#10 - Sottocampo #20

Numero di moduli FV	In serie	32 moduli	In parallelo	94 stringhe
Numero totale di moduli FV	n. di moduli	3008	Potenza nom. unit.	605 Wp
Potenza globale campo	Nominale (STC)	**1820 kWc**	In cond. di funz.	1666 kWc (50°C)
Caratt. di funzionamento campo FV (50°C)	U mpp	1000 V	I mpp	1666 A

#11 - Sottocampo #21

Numero di moduli FV	In serie	32 moduli	In parallelo	90 stringhe
Numero totale di moduli FV	n. di moduli	2880	Potenza nom. unit.	605 Wp
Potenza globale campo	Nominale (STC)	**1742 kWc**	In cond. di funz.	1596 kWc (50°C)
Caratt. di funzionamento campo FV (50°C)	U mpp	1000 V	I mpp	1595 A

#12 - Sottocampo #22

Numero di moduli FV	In serie	32 moduli	In parallelo	108 stringhe
Numero totale di moduli FV	n. di moduli	3456	Potenza nom. unit.	605 Wp
Potenza globale campo	Nominale (STC)	**2091 kWc**	In cond. di funz.	1915 kWc (50°C)
Caratt. di funzionamento campo FV (50°C)	U mpp	1000 V	I mpp	1914 A

Totale	Potenza globale campi	Nominale (STC)	**15836 kWp**	Totale	26176 moduli
		Superficie modulo	**74081 m²**	Superficie cella	69262 m²

Sottocampo - Inverter

#1 - Sottocampo #11	Modello	**SUNWAY TG 900 1500V TE - 600- cop 300**		
PVsyst database originale	Costruttore	Santerno		
Caratteristiche	Potenza nom. unit.	**300 kWac**	Tensione funz.	850-1200 V
Gruppo di inverter	Potenza totale	**300 kWac**	Rapporto Pnom	1.16
	N. di inverter	1 unità		

Sistema connesso in rete: Parametri di simulazione

#2 - Sottocampo #12	Modello	**SUNWAY TG 1800 1500V TE - 640 (1500 kVA)**		
PVsyst database originale	Costruttore	Santerno		
Caratteristiche	Potenza nom. unit.	**1500 kWac**	Tensione funz.	910-1200 V
Gruppo di inverter	Potenza totale	**1500 kWac**	Rapporto Pnom	1.11
	N. di inverter	2 * MPPT 50%		
#3 - Sottocampo #13	Modello	**SUNWAY TG 1800 1500V TE - 640 (1500 kVA)**		
PVsyst database originale	Costruttore	Santerno		
Caratteristiche	Potenza nom. unit.	**1500 kWac**	Tensione funz.	910-1200 V
Gruppo di inverter	Potenza totale	**1500 kWac**	Rapporto Pnom	1.06
	N. di inverter	2 * MPPT 50%		
#4 - Sottocampo #14	Modello	**SUNWAY TG 900 1500V TE - 640**		
PVsyst database originale	Costruttore	Santerno		
Caratteristiche	Potenza nom. unit.	**500 kWac**	Tensione funz.	910-1200 V
Gruppo di inverter	Potenza totale	**500 kWac**	Rapporto Pnom	1.24
	N. di inverter	1 unità		
#5 - Sottocampo #15	Modello	**SUNWAY TG 900 1500V TE - 640**		
PVsyst database originale	Costruttore	Santerno		
Caratteristiche	Potenza nom. unit.	**500 kWac**	Tensione funz.	910-1200 V
Gruppo di inverter	Potenza totale	**500 kWac**	Rapporto Pnom	1.24
	N. di inverter	1 unità		
#6 - Sottocampo #16	Modello	**SUNWAY TG 1800 1500V TE - 640 (1500 kVA)**		
PVsyst database originale	Costruttore	Santerno		
Caratteristiche	Potenza nom. unit.	**1500 kWac**	Tensione funz.	910-1200 V
Gruppo di inverter	Potenza totale	**1500 kWac**	Rapporto Pnom	1.11
	N. di inverter	2 * MPPT 50%		
#7 - Sottocampo #17	Modello	**SUNWAY TG 1800 1500V TE - 640 (1500 kVA)**		
PVsyst database originale	Costruttore	Santerno		
Caratteristiche	Potenza nom. unit.	**1500 kWac**	Tensione funz.	910-1200 V
Gruppo di inverter	Potenza totale	**1500 kWac**	Rapporto Pnom	1.14
	N. di inverter	2 * MPPT 50%		
#8 - Sottocampo #18	Modello	**SUNWAY TG 900 1500V TE - 600- cop 300**		
PVsyst database originale	Costruttore	Santerno		
Caratteristiche	Potenza nom. unit.	**300 kWac**	Tensione funz.	850-1200 V
Gruppo di inverter	Potenza totale	**300 kWac**	Rapporto Pnom	1.16
	N. di inverter	1 unità		
#9 - Sottocampo #19	Modello	**SUNWAY TG 1800 1500V TE - 640 (1500 kVA)**		
PVsyst database originale	Costruttore	Santerno		
Caratteristiche	Potenza nom. unit.	**1500 kWac**	Tensione funz.	910-1200 V
Gruppo di inverter	Potenza totale	**1500 kWac**	Rapporto Pnom	1.08
	N. di inverter	2 * MPPT 50%		
#10 - Sottocampo #20	Modello	**SUNWAY TG 1800 1500V TE - 640 (1500 kVA)**		
PVsyst database originale	Costruttore	Santerno		
Caratteristiche	Potenza nom. unit.	**1500 kWac**	Tensione funz.	910-1200 V
Gruppo di inverter	Potenza totale	**1500 kWac**	Rapporto Pnom	1.21
	N. di inverter	2 * MPPT 50%		
#11 - Sottocampo #21	Modello	**SUNWAY TG 1800 1500V TE - 640 (1500 kVA)**		
PVsyst database originale	Costruttore	Santerno		
Caratteristiche	Potenza nom. unit.	**1500 kWac**	Tensione funz.	910-1200 V
Gruppo di inverter	Potenza totale	**1500 kWac**	Rapporto Pnom	1.16
	N. di inverter	2 * MPPT 50%		
#12 - Sottocampo #22	Modello	**SUNWAY TG 1800 1500V TE - 640**		
PVsyst database originale	Costruttore	Santerno		
Caratteristiche	Potenza nom. unit.	**1774 kWac**	Tensione funz.	905-1200 V
	Potenza max. (=>25°C)	1995 kWac		
Gruppo di inverter	Potenza totale	**1774 kWac**	Rapporto Pnom	1.18
	N. di inverter	2 * MPPT 50%		

Sistema connesso in rete: Parametri di simulazione

Fattori di perdita campo FV

Perdite per sporco campo			Fraz. perdite	3.0 %
Fatt. di perdita termica	Uc (cost)	29.0 W/m²K	Uv (vento)	0.0 W/m²K / m/s
Perdita ohmica di cablaggio	Campo #1	52 mΩ	Fraz. perdite	1.5 % a STC
	Campo #2	11 mΩ	Fraz. perdite	1.5 % a STC
	Campo #3	11 mΩ	Fraz. perdite	1.5 % a STC
	Campo #4	29 mΩ	Fraz. perdite	1.5 % a STC
	Campo #5	29 mΩ	Fraz. perdite	1.5 % a STC
	Campo #6	11 mΩ	Fraz. perdite	1.5 % a STC
	Campo #7	11 mΩ	Fraz. perdite	1.5 % a STC
	Campo #8	52 mΩ	Fraz. perdite	1.5 % a STC
	Campo #9	11 mΩ	Fraz. perdite	1.5 % a STC
	Campo #10	9.9 mΩ	Fraz. perdite	1.5 % a STC
	Campo #11	10 mΩ	Fraz. perdite	1.5 % a STC
	Campo #12	8.6 mΩ	Fraz. perdite	1.5 % a STC
	Globale		Fraz. perdite	1.5 % a STC
LID - Light Induced Degradation			Fraz. perdite	2.0 %
Perdita di qualità moduli			Fraz. perdite	-0.8 %
Perdite per mismatch del modulo			Fraz. perdite	2.0 % a MPP
Perdita disadattamento Stringhe			Fraz. perdite	0.10 %

#1 - Sottocampo #11

Effetto d'incidenza, profilo definito utente (IAM): Profilo definito utente

0°	40°	50°	60°	70°	75°	80°	85°	90°
1.000	1.000	0.998	0.992	0.983	0.961	0.933	0.853	0.000

#2 - Sottocampo #12

Effetto d'incidenza, profilo definito utente (IAM): Profilo definito utente

0°	40°	50°	60°	70°	75°	80°	85°	90°
1.000	1.000	0.998	0.992	0.983	0.961	0.933	0.853	0.000

#3 - Sottocampo #13

Effetto d'incidenza, profilo definito utente (IAM): Profilo definito utente

0°	40°	50°	60°	70°	75°	80°	85°	90°
1.000	1.000	0.998	0.992	0.983	0.961	0.933	0.853	0.000

#4 - Sottocampo #14

Effetto d'incidenza, profilo definito utente (IAM): Profilo definito utente

0°	40°	50°	60°	70°	75°	80°	85°	90°
1.000	1.000	0.998	0.992	0.983	0.961	0.933	0.853	0.000

#5 - Sottocampo #15

Effetto d'incidenza, profilo definito utente (IAM): Profilo definito utente

0°	40°	50°	60°	70°	75°	80°	85°	90°
1.000	1.000	0.998	0.992	0.983	0.961	0.933	0.853	0.000

#6 - Sottocampo #16

Effetto d'incidenza, profilo definito utente (IAM): Profilo definito utente

0°	40°	50°	60°	70°	75°	80°	85°	90°
1.000	1.000	0.998	0.992	0.983	0.961	0.933	0.853	0.000

#7 - Sottocampo #17

Effetto d'incidenza, profilo definito utente (IAM): Profilo definito utente

0°	40°	50°	60°	70°	75°	80°	85°	90°
1.000	1.000	0.998	0.992	0.983	0.961	0.933	0.853	0.000

Sistema connesso in rete: Parametri di simulazione

#8 - Sottocampo #18

Effetto d'incidenza, profilo definito utente (IAM): Profilo definito utente

0°	40°	50°	60°	70°	75°	80°	85°	90°
1.000	1.000	0.998	0.992	0.983	0.961	0.933	0.853	0.000

#9 - Sottocampo #19

Effetto d'incidenza, profilo definito utente (IAM): Profilo definito utente

0°	40°	50°	60°	70°	75°	80°	85°	90°
1.000	1.000	0.998	0.992	0.983	0.961	0.933	0.853	0.000

#10 - Sottocampo #20

Effetto d'incidenza, profilo definito utente (IAM): Profilo definito utente

0°	40°	50°	60°	70°	75°	80°	85°	90°
1.000	1.000	0.998	0.992	0.983	0.961	0.933	0.853	0.000

#11 - Sottocampo #21

Effetto d'incidenza, profilo definito utente (IAM): Profilo definito utente

0°	40°	50°	60°	70°	75°	80°	85°	90°
1.000	1.000	0.998	0.992	0.983	0.961	0.933	0.853	0.000

#12 - Sottocampo #22

Effetto d'incidenza, profilo definito utente (IAM): Profilo definito utente

0°	40°	50°	60°	70°	75°	80°	85°	90°
1.000	1.000	0.998	0.992	0.983	0.961	0.933	0.853	0.000

Fattori di perdita sistema

Perdite AC dall'inverter all'iniezione Tensione inverter 600 Vac tri

Sistema completo Conduttori: 3 x 10000 mm² 1227 m Fraz. perdite 10.0 % a STC

Sistema connesso in rete: Definizione orizzonte

Progetto : **LA FEUDALE AREA A2 & A3 & A4 & A5**

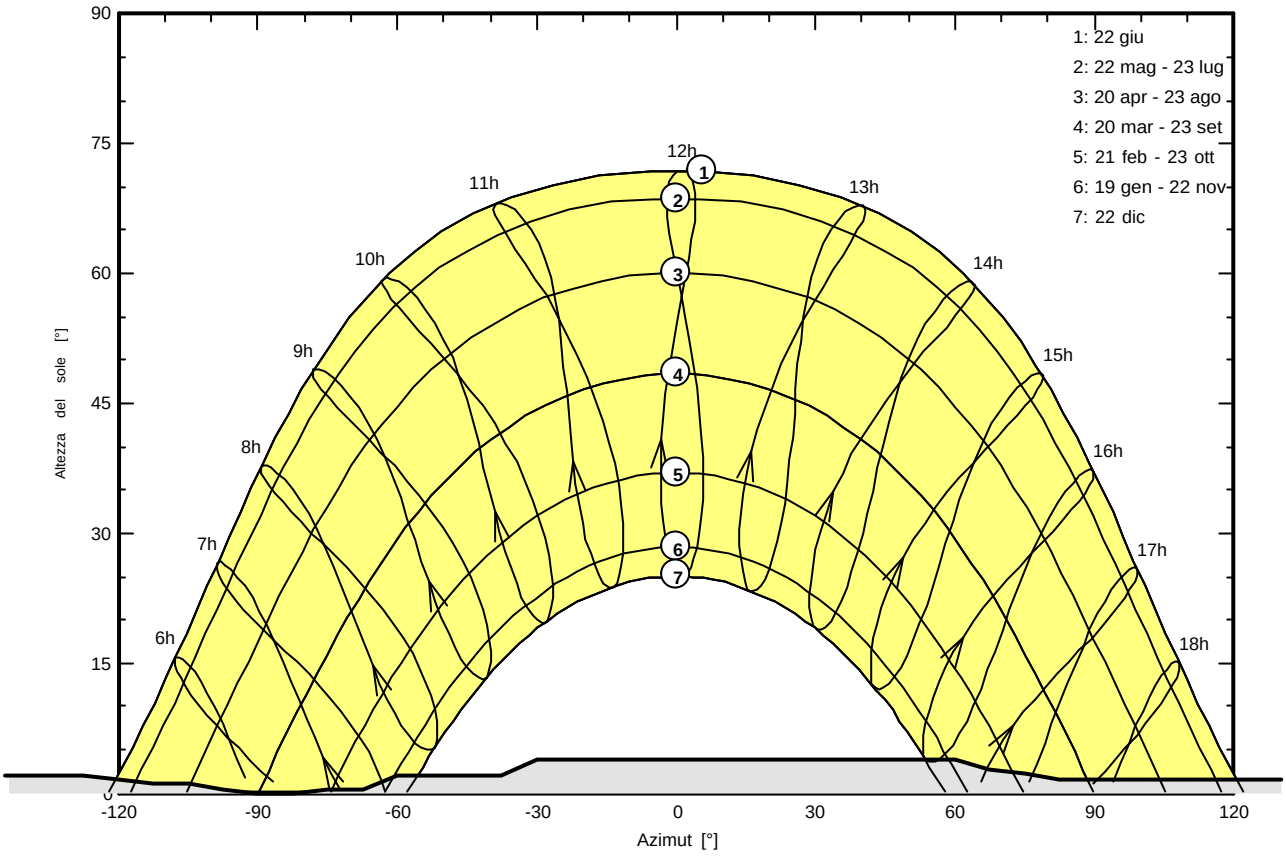
Variante di simulazione : **Nuova variante di simulazione**

Parametri principali del sistema	Tipo di sistema	**Sistema inseguitori**		
Orizzonte	Altezza media	2.2°		
Ombre vicine	Secondo le stringhe dei moduli		Effetto elettrico	100 %
Orientamento campo FV	asse inclinato, Inclinazione asse	0°	Asse dell'azimut	0°
Moduli FV	Modello	TSM-605DE20	Pnom	605 Wc
Campo FV	Numero di moduli	26176	Pnom totale	**15836 kWc**
Inverter	SUNWAY TG 900 1500V TE - 600- cop 300		Pnom	300 kW ac
Inverter	SUNWAY TG 1800 1500V TE - 640 (1500 kVA)			1500 kW ac
Inverter	SUNWAY TG 900 1500V TE - 640			500 kW ac
Inverter	SUNWAY TG 1800 1500V TE - 640			1774 kW ac
Gruppo di inverter	Numero di unità	12.0	Pnom totale	**13874 kW ac**
Bisogni dell'utente	Carico illimitato (rete)			

Orizzonte	Altezza media	2.2°	Fattore su diffuso	0.96
	Fattore su albedo	100%	Frazione albedo	0.89

Altezza [°]	2.7	2.7	2.3	2.3	1.9	1.9	1.5	1.1	1.1	0.4	0.0	0.0	0.4	0.4
Azimut [°]	-180	-173	-165	-158	-150	-128	-120	-113	-105	-98	-90	-83	-75	-68
Altezza [°]	1.9	1.9	3.8	3.8	2.7	2.3	1.5	1.5	1.9	1.9	2.3	2.7	2.7	
Azimut [°]	-60	-38	-30	60	68	75	83	135	143	150	158	165	180	

Horizon from PVGIS website API, Lat=41°33"14', Long=15°44"50', Alt=11m



Sistema connesso in rete: Definizione ombre vicine

Progetto : **LA FEUDALE AREA A2 & A3 & A4 & A5**

Variante di simulazione : **Nuova variante di simulazione**

Parametri principali del sistema	Tipo di sistema	**Sistema inseguitori**		
Orizzonte	Altezza media	2.2°		
Ombre vicine	Secondo le stringhe dei moduli		Effetto elettrico	100 %
Orientamento campo FV	asse inclinato, Inclinazione asse	0°	Asse dell'azimut	0°
Moduli FV	Modello	TSM-605DE20	Pnom	605 Wc
Campo FV	Numero di moduli	26176	Pnom totale	**15836 kWc**
Inverter	SUNWAY TG 900 1500V TE - 600- cop 300			300 kW ac
Inverter	SUNWAY TG 1800 1500V TE - 640 (1500 kVA)			1500 kW ac
Inverter	SUNWAY TG 900 1500V TE - 640			500 kW ac
Inverter	SUNWAY TG 1800 1500V TE - 640			1774 kW ac
Gruppo di inverter	Numero di unità	12.0	Pnom totale	**13874 kW ac**
Bisogni dell'utente	Carico illimitato (rete)			

Prospettiva campo FV e area d'ombra circostante

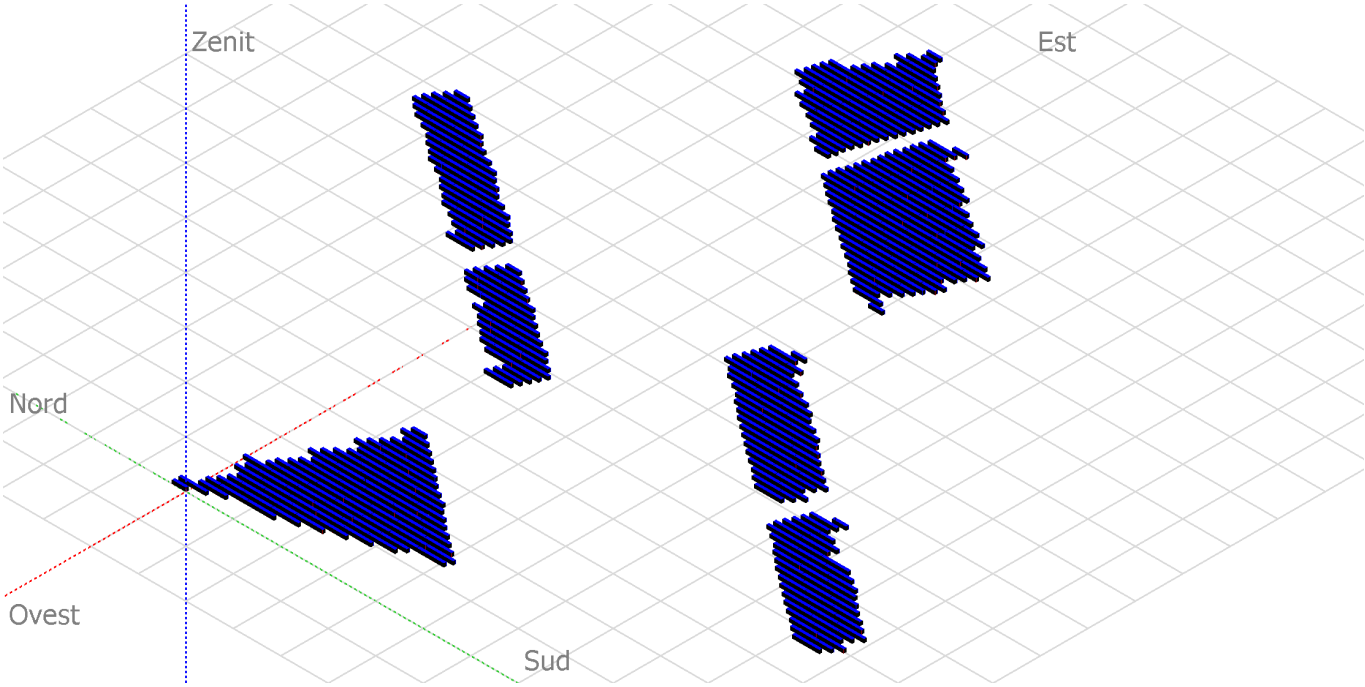
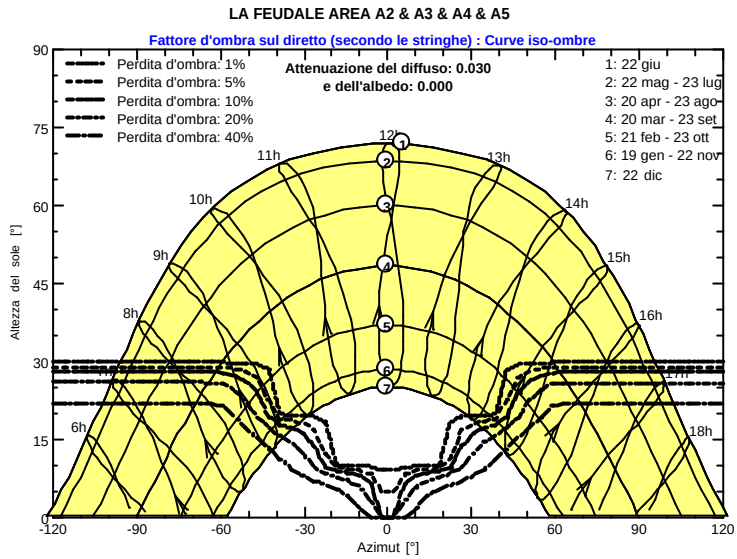


Diagramma iso-ombre



Sistema connesso in rete: Risultati principali

Progetto : **LA FEUDALE AREA A2 & A3 & A4 & A5**

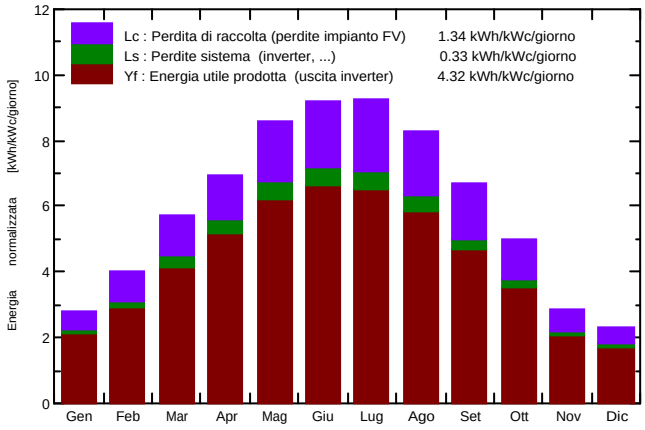
Variante di simulazione : **Nuova variante di simulazione**

Parametri principali del sistema		Tipo di sistema	**Sistema inseguitori**		
Orizzonte		Altezza media	2.2°		
Ombre vicine	Secondo le stringhe dei moduli			Effetto elettrico	100 %
Orientamento campo FV	asse inclinato, Inclinazione asse		0°	Asse dell'azimut	0°
Moduli FV		Modello	TSM-605DE20	Pnom	605 Wc
Campo FV		Numero di moduli	26176	Pnom totale	**15836 kWc**
Inverter		SUNWAY TG 900 1500V TE - 600- cop 300			300 kW ac
Inverter		SUNWAY TG 1800 1500V TE - 640 (1500 kVA)			1500 kW ac
Inverter		SUNWAY TG 900 1500V TE - 640			500 kW ac
Inverter		SUNWAY TG 1800 1500V TE - 640			1774 kW ac
Gruppo di inverter		Numero di unità	12.0	Pnom totale	**13874 kW ac**
Bisogni dell'utente		Carico illimitato (rete)			

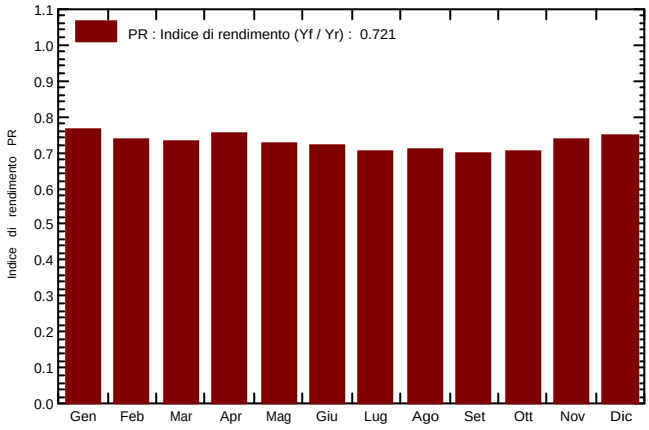
Risultati principali di simulazione

Produzione sistema	**Energia prodotta**	**24952 MWh/anno**	Prod. spec.	1576 kWh/kWc/anno
	Indice di rendimento PR	72.11 %		

Produzione normalizzata (per kWp installato): Potenza nominale 15836 kWc



Indice di rendimento PR



Nuova variante di simulazione

Bilanci e risultati principali

	GlobHor kWh/m²	DiffHor kWh/m²	T_Amb °C	GlobInc kWh/m²	GlobEff kWh/m²	EArray MWh	E_Grid MWh	PR ratio
Gennaio	59.8	26.79	7.11	87.2	75.2	1115	1056	0.765
Febbraio	77.5	32.94	7.46	112.2	97.1	1388	1307	0.735
Marzo	125.8	52.01	10.94	177.3	156.0	2202	2051	0.730
Aprile	157.2	72.24	13.98	207.9	187.4	2671	2475	0.752
Maggio	195.8	79.70	20.09	266.3	239.5	3306	3048	0.723
Giugno	206.8	83.64	24.21	275.9	250.7	3403	3139	0.718
Luglio	209.1	78.17	27.54	287.1	258.7	3458	3189	0.701
Agosto	187.6	71.05	26.98	256.0	230.7	3107	2872	0.708
Settembre	139.5	52.32	21.27	200.5	175.7	2386	2218	0.698
Ottobre	107.5	40.74	17.85	155.5	135.7	1848	1732	0.703
Novembre	60.7	27.95	12.29	86.4	74.2	1065	1007	0.735
Dicembre	49.0	22.95	8.66	72.4	61.1	903	859	0.749
Anno	1576.3	640.48	16.59	2185.0	1942.0	26851	24952	0.721

Legenda:

GlobHor	Irraggiamento orizzontale globale	GlobEff	Globale "effettivo", corr. per IAM e ombre
DiffHor	Irraggiamento diffuso orizz.	EArray	Energia effettiva in uscita campo
T_Amb	T amb.	E_Grid	Energia immessa in rete
GlobInc	Globale incidente piano coll.	PR	Indice di rendimento

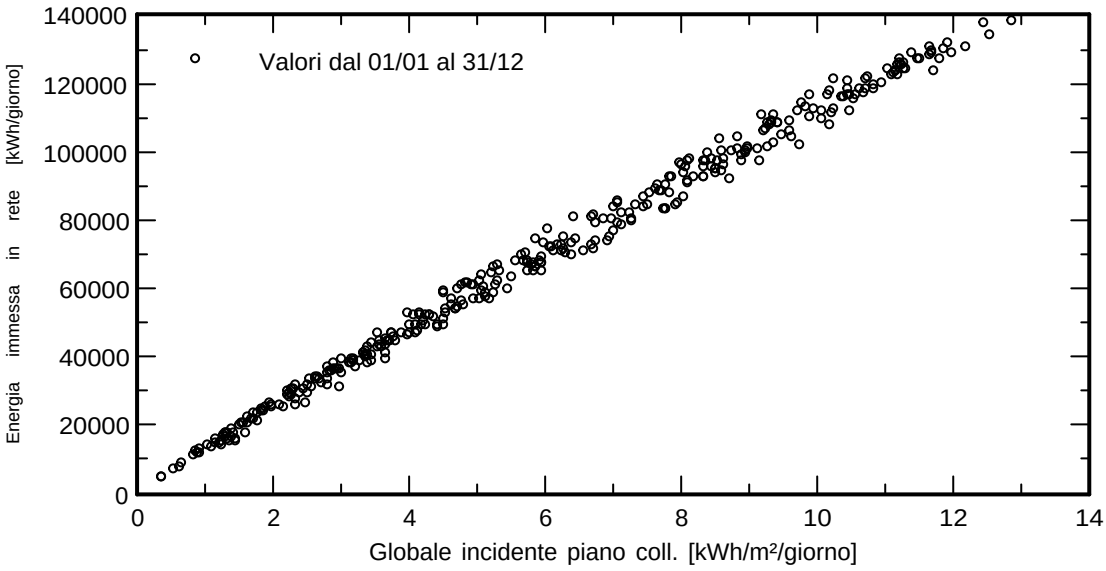
Sistema connesso in rete: Grafici speciali

Progetto : **LA FEUDALE AREA A2 & A3 & A4 & A5**

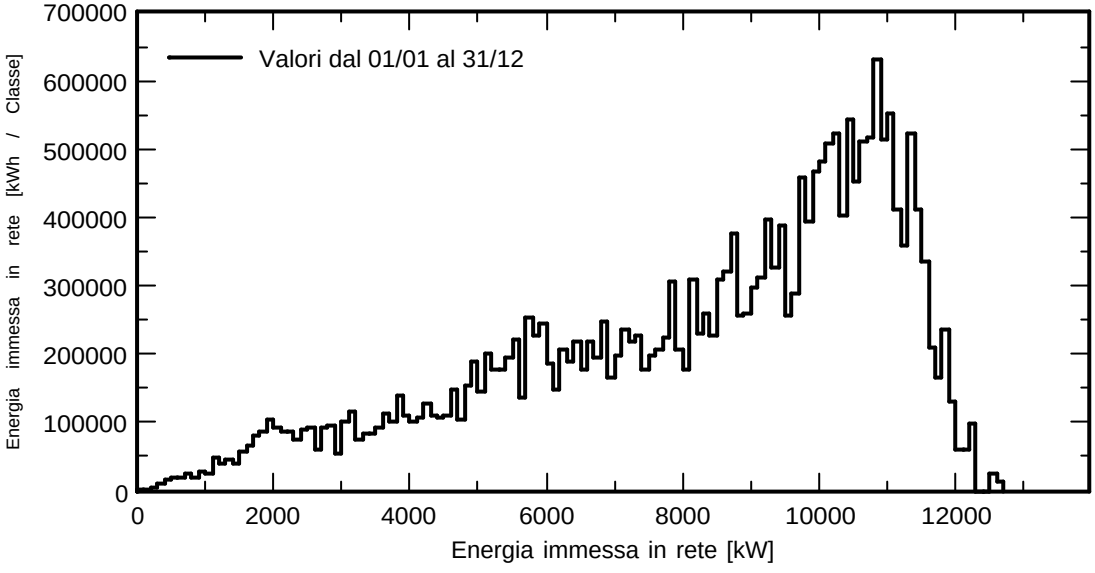
Variante di simulazione : **Nuova variante di simulazione**

Parametri principali del sistema	Tipo di sistema	**Sistema inseguitori**		
Orizzonte	Altezza media	2.2°		
Ombre vicine	Secondo le stringhe dei moduli		Effetto elettrico	100 %
Orientamento campo FV	Inseguitore, asse inclinato,	Inclinazione asse 0°	Asse dell'azimut	0°
Moduli FV	Modello	TSM-605DE20	Pnom	605 Wc
Campo FV	Numero di moduli	26176	Pnom totale	**15836 kWc**
Inverter	SUNWAY TG 900 1500V TE - 600- cop 300			300 kW ac
Inverter	SUNWAY TG 1800 1500V TE - 640 (1500 kVA)			1500 kW ac
Inverter	SUNWAY TG 900 1500V TE - 640			500 kW ac
Inverter	SUNWAY TG 1800 1500V TE - 640			1774 kW ac
Gruppo di inverter	Numero di unità	12.0	Pnom totale	**13874 kW ac**
Bisogni dell'utente	Carico illimitato (rete)			

Diagramma giornaliero entrata/uscita



Distribuzione potenza in uscita sistema



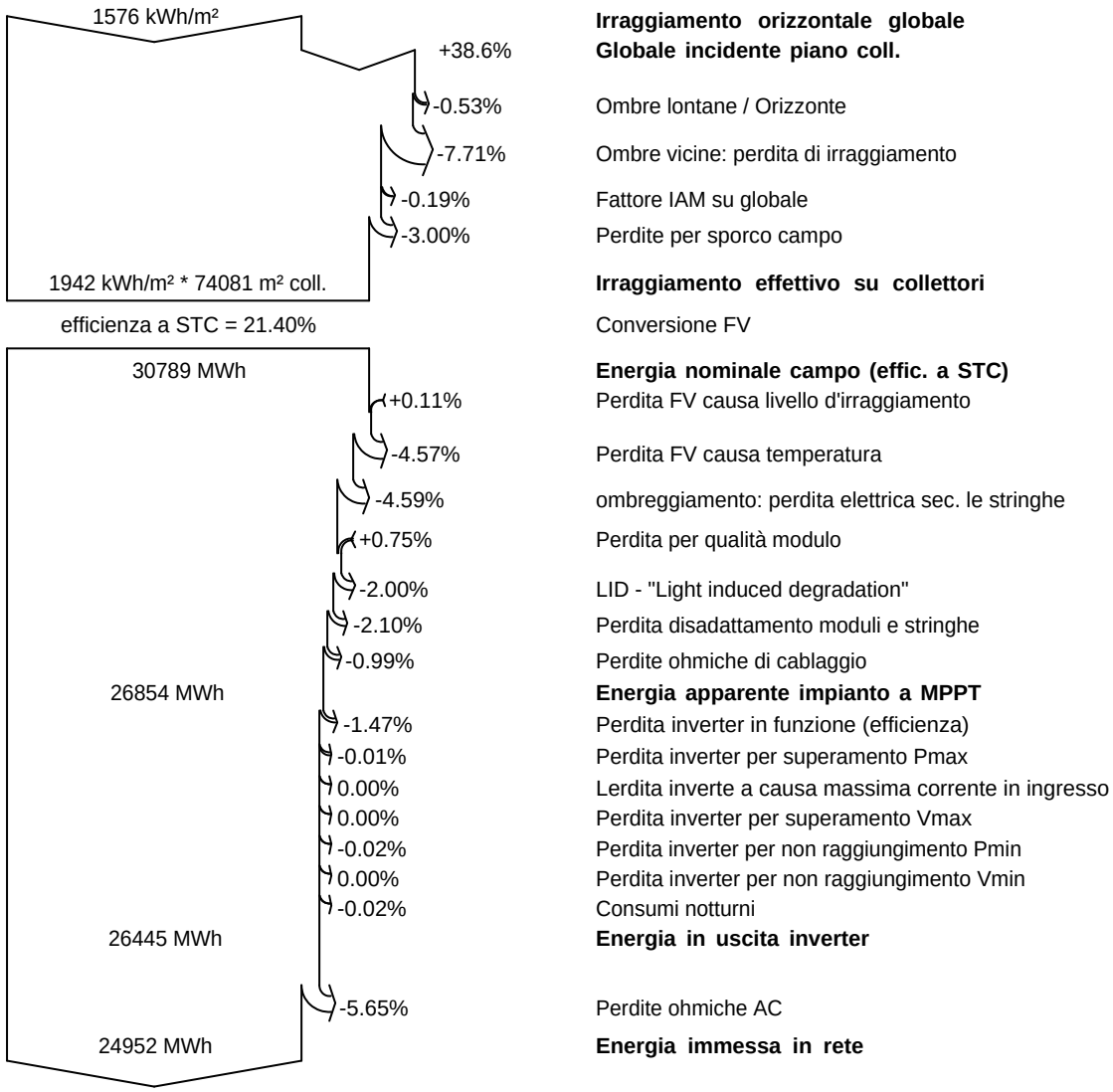
Sistema connesso in rete: Diagramma perdite

Progetto : **LA FEUDALE AREA A2 & A3 & A4 & A5**

Variante di simulazione : **Nuova variante di simulazione**

Parametri principali del sistema		Tipo di sistema	**Sistema inseguitori**		
Orizzonte		Altezza media	2.2°		
Ombre vicine	Secondo le stringhe dei moduli			Effetto elettrico	100 %
Orientamento campo FV	asse inclinato, Inclinazione asse		0°	Asse dell'azimut	0°
Moduli FV		Modello	TSM-605DE20	Pnom	605 Wc
Campo FV		Numero di moduli	26176	Pnom totale	**15836 kWc**
Inverter		SUNWAY TG 900 1500V TE - 600- cop 300			300 kW ac
Inverter		SUNWAY TG 1800 1500V TE - 640 (1500 kVA)			1500 kW ac
Inverter		SUNWAY TG 900 1500V TE - 640			500 kW ac
Inverter		SUNWAY TG 1800 1500V TE - 640			1774 kW ac
Gruppo di inverter		Numero di unità	12.0	Pnom totale	**13874 kW ac**
Bisogni dell'utente		Carico illimitato (rete)			

Diagramma perdite sull'anno intero



From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 1.17,1.1.1	string box SB 1,17.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	57,83	63,613	127,23	17,44	20	EPR	6	In contact	35	OK	0,95%			0,066
string 1.17,1.1 2	string box SB 1,17.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	57,83	63,613	127,23	17,44	20	EPR	6	In contact	35	OK	0,95%			0,066
string 1.17,1.1 3	string box SB 1,17.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	28,5	31,35	62,7	17,44	20	EPR	6	In contact	35	OK	0,47%			0,032
string 1.17,1.1 4	string box SB 1,17.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	61,46	67,606	135,21	17,44	20	EPR	6	In contact	35	OK	1,01%			0,070
string 1.17,1.1 5	string box SB 1,17.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	61,46	67,606	135,21	17,44	20	EPR	6	In contact	35	OK	1,01%			0,070
string 1.17,1.1 6	string box SB 1,17.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 1.17,1.1 7	string box SB 1,17.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 1.17,1.1 8	string box SB 1,17.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	64,63	71,093	142,19	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string 1.17,1.1 9	string box SB 1,17.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	64,63	71,093	142,19	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string 1.17,1.1 10	string box SB 1,17.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	45,11	49,621	99,242	17,44	20	EPR	6	In contact	35	OK	0,74%			0,051
string 1.17,1.1 11	string box SB 1,17.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	45,11	49,621	99,242	17,44	20	EPR	6	In contact	35	OK	0,74%			0,051
string 1.17,1.1 12	string box SB 1,17.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	88,03	96,833	193,67	17,44	20	EPR	6	In contact	47,5	OK	0,83%			0,057
string 1.17,1.1 13	string box SB 1,17.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	88,03	96,833	193,67	17,44	20	EPR	6	In contact	47,5	OK	0,83%			0,057
string 1.17,1.1 14	string box SB 1,17.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	41,56	45,716	91,432	17,44	20	EPR	6	In contact	35	OK	0,68%			0,047
string 1.17,1.1 15	string box SB 1,17.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	68,17	74,987	149,97	17,44	20	EPR	6	In contact	47,5	OK	0,65%			0,044
string 1.17,1.1 16	string box SB 1,17.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	68,17	74,987	149,97	17,44	20	EPR	6	In contact	47,5	OK	0,65%			0,044
string 1.17,1.1 17	string box SB 1,17.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 16	111,42	122,562	245,12	17,44	20	EPR	6	In contact	65	OK	0,67%			0,046
string 1.17,1.1 18	string box SB 1,17.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 16	111,42	122,562	245,12	17,44	20	EPR	6	In contact	65	OK	0,67%			0,046
string box SB 1,17.1.1	conversion unit CU 17	ARG70R	ALUMINIUM	2x 2 x 240	193,94	213,334	853,34	313,92	20	EPR	6	25	370,048	OK	0,97%			1,314
													MAX. VOLTAGE DROP		1,98%	2%	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 1.17,1.2.1	string box SB 1,17.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	17,98	19,778	39,556	17,44	20	EPR	6	In contact	35	OK	0,30%			0,020
string 1.17,1.2 2	string box SB 1,17.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	17,98	19,778	39,556	17,44	20	EPR	6	In contact	35	OK	0,30%			0,020
string 1.17,1.2 3	string box SB 1,17.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	61,23	67,353	134,71	17,44	20	EPR	6	In contact	35	OK	1,01%			0,069
string 1.17,1.2 4	string box SB 1,17.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	61,23	67,353	134,71	17,44	20	EPR	6	In contact	35	OK	1,01%			0,069
string 1.17,1.2 5	string box SB 1,17.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 16	104,49	114,939	229,88	17,44	20	EPR	6	In contact	65	OK	0,63%			0,043
string 1.17,1.2 6	string box SB 1,17.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 16	104,49	114,939	229,88	17,44	20	EPR	6	In contact	65	OK	0,63%			0,043
string 1.17,1.2 7	string box SB 1,17.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 1.17,1.2 8	string box SB 1,17.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 1.17,1.2 9	string box SB 1,17.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	64,63	71,093	142,19	17,44	20	EPR	6	In contact	35	OK	1,06%			0,073
string 1.17,1.2 10	string box SB 1,17.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	64,63	71,093	142,19	17,44	20	EPR	6	In contact	35	OK	1,06%			0,073
string 1.17,1.2 11	string box SB 1,17.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 16	107,89	118,679	237,36	17,44	20	EPR	6	In contact	65	OK	0,65%			0,045
string 1.17,1.2 12	string box SB 1,17.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 16	107,89	118,679	237,36	17,44	20	EPR	6	In contact	65	OK	0,65%			0,045
string 1.17,1.2 13	string box SB 1,17.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	44,77	49,247	98,494	17,44	20	EPR	6	In contact	35	OK	0,74%			0,051
string 1.17,1.2 14	string box SB 1,17.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	44,77	49,247	98,494	17,44	20	EPR	6	In contact	35	OK	0,74%			0,051
string 1.17,1.2 15	string box SB 1,17.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	88,03	96,833	193,67	17,44	20	EPR	6	In contact	47,5	OK	0,83%			0,057
string 1.17,1.2 16	string box SB 1,17.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	88,03	96,833	193,67	17,44	20	EPR	6	In contact	47,5	OK	0,83%			0,057
string 1.17,1.2 17	string box SB 1,17.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 16	131,28	144,408	288,82	17,44	20	EPR	6	In contact	65	OK	0,79%			0,054
string 1.17,1.2 18	string box SB 1,17.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 16	131,28	144,408	288,82	17,44	20	EPR	6	In contact	65	OK	0,79%			0,054
string box SB 1,17.1.2	conversion unit CU 17	ARG70R	ALUMINIUM	2x 2 x 240	142,07	156,277	625,11	313,92	20	EPR	6	25	370,048	OK	0,71%			0,962527

MAX. VOLTAGE DROP 1,77% 2% OK

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 1 . 17 . 1 . 3 . 1	string box SB 1 , 17 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	17,98	19,778	39,556	17,44	20	EPR	6	In contact	35	OK	0,30%			0,020
string 1 . 17 . 1 . 3 2	string box SB 1 , 17 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	17,98	19,778	39,556	17,44	20	EPR	6	In contact	35	OK	0,30%			0,020
string 1 . 17 . 1 . 3 3	string box SB 1 , 17 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	61,23	67,353	134,71	17,44	20	EPR	6	In contact	35	OK	1,01%			0,069
string 1 . 17 . 1 . 3 4	string box SB 1 , 17 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	61,23	67,353	134,71	17,44	20	EPR	6	In contact	35	OK	1,01%			0,069
string 1 . 17 . 1 . 3 5	string box SB 1 , 17 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 16	104,49	114,939	229,88	17,44	20	EPR	6	In contact	65	OK	0,63%			0,043
string 1 . 17 . 1 . 3 6	string box SB 1 , 17 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 16	104,49	114,939	229,88	17,44	20	EPR	6	In contact	65	OK	0,63%			0,043
string 1 . 17 . 1 . 3 7	string box SB 1 , 17 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 1 . 17 . 1 . 3 8	string box SB 1 , 17 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 1 . 17 . 1 . 3 9	string box SB 1 , 17 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	64,63	71,093	142,19	17,44	20	EPR	6	In contact	35	OK	1,06%			0,073
string 1 . 17 . 1 . 3 10	string box SB 1 , 17 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	64,63	71,093	142,19	17,44	20	EPR	6	In contact	35	OK	1,06%			0,073
string 1 . 17 . 1 . 3 11	string box SB 1 , 17 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 10	107,89	118,679	237,36	17,44	20	EPR	6	In contact	47,5	OK	1,02%			0,070
string 1 . 17 . 1 . 3 12	string box SB 1 , 17 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 10	107,89	118,679	237,36	17,44	20	EPR	6	In contact	47,5	OK	1,02%			0,070
string 1 . 17 . 1 . 3 13	string box SB 1 , 17 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	44,77	49,247	98,494	17,44	20	EPR	6	In contact	35	OK	0,74%			0,051
string 1 . 17 . 1 . 3 14	string box SB 1 , 17 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	44,77	49,247	98,494	17,44	20	EPR	6	In contact	35	OK	0,74%			0,051
string 1 . 17 . 1 . 3 15	string box SB 1 , 17 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 10	88,03	96,833	193,67	17,44	20	EPR	6	In contact	47,5	OK	0,83%			0,057
string 1 . 17 . 1 . 3 16	string box SB 1 , 17 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 10	88,03	96,833	193,67	17,44	20	EPR	6	In contact	47,5	OK	0,83%			0,057
string 1 . 17 . 1 . 3 17	string box SB 1 , 17 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 16	131,28	144,408	288,82	17,44	20	EPR	6	In contact	65	OK	0,79%			0,054
string 1 . 17 . 1 . 3 18	string box SB 1 , 17 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 16	131,28	144,408	288,82	17,44	20	EPR	6	In contact	65	OK	0,79%			0,054
string box SB 1 , 17 . 1 . 3	conversion unit CU 17 ,	ARG70R	ALUMINIUM	2x 1 x 240	92,27	101,497	202,99	313,92	20	EPR	6	25	370,048	OK	0,92%			1,250262
												MAX. VOLTAGE DROP			1,99%	2%	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 1 . 17 . 2 . 1 . 1	string box SB 1 , 17 . 2 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	17,98	19,778	39,556	17,44	20	EPR	6	In contact	35	OK	0,30%			0,020
string 1 . 17 . 2 . 1 2	string box SB 1 , 17 . 2 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	17,98	19,778	39,556	17,44	20	EPR	6	In contact	35	OK	0,30%			0,020
string 1 . 17 . 2 . 1 3	string box SB 1 , 17 . 2 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	61,23	67,353	134,71	17,44	20	EPR	6	In contact	35	OK	1,01%			0,069
string 1 . 17 . 2 . 1 4	string box SB 1 , 17 . 2 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	61,23	67,353	134,71	17,44	20	EPR	6	In contact	35	OK	1,01%			0,069
string 1 . 17 . 2 . 1 5	string box SB 1 , 17 . 2 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 16	104,49	114,939	229,88	17,44	20	EPR	6	In contact	65	OK	0,63%			0,043
string 1 . 17 . 2 . 1 6	string box SB 1 , 17 . 2 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 16	104,49	114,939	229,88	17,44	20	EPR	6	In contact	65	OK	0,63%			0,043
string 1 . 17 . 2 . 1 7	string box SB 1 , 17 . 2 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 1 . 17 . 2 . 1 8	string box SB 1 , 17 . 2 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 1 . 17 . 2 . 1 9	string box SB 1 , 17 . 2 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	64,63	71,093	142,19	17,44	20	EPR	6	In contact	35	OK	1,06%			0,073
string 1 . 17 . 2 . 1 10	string box SB 1 , 17 . 2 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	64,63	71,093	142,19	17,44	20	EPR	6	In contact	35	OK	1,06%			0,073
string 1 . 17 . 2 . 1 11	string box SB 1 , 17 . 2 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 16	107,89	118,679	237,36	17,44	20	EPR	6	In contact	65	OK	0,65%			0,045
string 1 . 17 . 2 . 1 12	string box SB 1 , 17 . 2 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 16	107,89	118,679	237,36	17,44	20	EPR	6	In contact	65	OK	0,65%			0,045
string 1 . 17 . 2 . 1 13	string box SB 1 , 17 . 2 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	44,77	49,247	98,494	17,44	20	EPR	6	In contact	35	OK	0,74%			0,051
string 1 . 17 . 2 . 1 14	string box SB 1 , 17 . 2 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	44,77	49,247	98,494	17,44	20	EPR	6	In contact	35	OK	0,74%			0,051
string 1 . 17 . 2 . 1 15	string box SB 1 , 17 . 2 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 10	88,03	96,833	193,67	17,44	20	EPR	6	In contact	47,5	OK	0,83%			0,057
string 1 . 17 . 2 . 1 16	string box SB 1 , 17 . 2 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 10	88,03	96,833	193,67	17,44	20	EPR	6	In contact	47,5	OK	0,83%			0,057
string 1 . 17 . 2 . 1 17	string box SB 1 , 17 . 2 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 16	131,28	144,408	288,82	17,44	20	EPR	6	In contact	65	OK	0,79%			0,054
string 1 . 17 . 2 . 1 18	string box SB 1 , 17 . 2 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 16	131,28	144,408	288,82	17,44	20	EPR	6	In contact	65	OK	0,79%			0,054
string box SB 1 , 17 . 2 . 1	conversion unit CU 17 ,	ARG70R	ALUMINIUM	2x 1 x 240	42,48	46,728	93,456	313,92	20	EPR	6	25	370,048	OK	0,42%			0,575606
												MAX. VOLTAGE DROP			1,49%	2%	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 1.17.2.2.1	string box SB 1,17.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	28,9	31,79	63,58	17,44	20	EPR	6	In contact	35	OK	0,48%			0,033
string 1.17.2.2.2	string box SB 1,17.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	28,9	31,79	63,58	17,44	20	EPR	6	In contact	35	OK	0,48%			0,033
string 1.17.2.2.3	string box SB 1,17.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	72,15	79,365	158,73	17,44	20	EPR	6	In contact	47,5	OK	0,68%			0,047
string 1.17.2.2.4	string box SB 1,17.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	72,15	79,365	158,73	17,44	20	EPR	6	In contact	47,5	OK	0,68%			0,047
string 1.17.2.2.5	string box SB 1,17.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	14,62	16,082	32,164	17,44	20	EPR	6	In contact	35	OK	0,24%			0,017
string 1.17.2.2.6	string box SB 1,17.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	14,62	16,082	32,164	17,44	20	EPR	6	In contact	35	OK	0,24%			0,017
string 1.17.2.2.7	string box SB 1,17.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	57,87	63,657	127,31	17,44	20	EPR	6	In contact	35	OK	0,95%			0,066
string 1.17.2.2.8	string box SB 1,17.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	57,87	63,657	127,31	17,44	20	EPR	6	In contact	35	OK	0,95%			0,066
string 1.17.2.2.9	string box SB 1,17.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	10,85	11,935	23,87	17,44	20	EPR	6	In contact	35	OK	0,18%			0,012
string 1.17.2.2.10	string box SB 1,17.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	43,59	47,949	95,898	17,44	20	EPR	6	In contact	35	OK	0,72%			0,049
string 1.17.2.2.11	string box SB 1,17.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	43,59	47,949	95,898	17,44	20	EPR	6	In contact	35	OK	0,72%			0,049
string 1.17.2.2.12	string box SB 1,17.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	49,31	54,241	108,48	17,44	20	EPR	6	In contact	35	OK	0,81%			0,056
string 1.17.2.2.13	string box SB 1,17.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	49,31	54,241	108,48	17,44	20	EPR	6	In contact	35	OK	0,81%			0,056
string 1.17.2.2.14	string box SB 1,17.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	55,06	60,566	121,13	17,44	20	EPR	6	In contact	35	OK	0,91%			0,062
string 1.17.2.2.15	string box SB 1,17.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	55,06	60,566	121,13	17,44	20	EPR	6	In contact	35	OK	0,91%			0,062
string 1.17.2.2.16	string box SB 1,17.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	71,26	78,386	156,77	17,44	20	EPR	6	In contact	35	OK	1,17%			0,081
string box SB 1,17.2.2	conversion unit CU 17,	ARG70R	ALUMINIUM	2x 1 x 150	32,85	36,135	72,27	279,04	20	EPR	1	In contact	400,64	OK	0,48%			0,5796
														MAX. VOLTAGE DROP	1,65%	2%	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 1.18.1.1.1	string box SB 1,18.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	54,73	60,203	120,41	17,44	20	EPR	6	In contact	35	OK	0,90%			0,062
string 1.18.1.1.2	string box SB 1,18.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	54,73	60,203	120,41	17,44	20	EPR	6	In contact	35	OK	0,90%			0,062
string 1.18.1.1.3	string box SB 1,18.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	25,29	27,819	55,638	17,44	20	EPR	6	In contact	35	OK	0,42%			0,029
string 1.18.1.1.4	string box SB 1,18.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	58,03	63,833	127,67	17,44	20	EPR	6	In contact	35	OK	0,96%			0,066
string 1.18.1.1.5	string box SB 1,18.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	58,03	63,833	127,67	17,44	20	EPR	6	In contact	35	OK	0,96%			0,066
string 1.18.1.1.6	string box SB 1,18.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	17,95	19,745	39,49	17,44	20	EPR	6	In contact	35	OK	0,30%			0,020
string 1.18.1.1.7	string box SB 1,18.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	17,95	19,745	39,49	17,44	20	EPR	6	In contact	35	OK	0,30%			0,020
string 1.18.1.1.8	string box SB 1,18.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	61,21	67,331	134,66	17,44	20	EPR	6	In contact	35	OK	1,01%			0,069
string 1.18.1.1.9	string box SB 1,18.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	61,21	67,331	134,66	17,44	20	EPR	6	In contact	35	OK	1,01%			0,069
string 1.18.1.1.10	string box SB 1,18.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 1.18.1.1.11	string box SB 1,18.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 1.18.1.1.12	string box SB 1,18.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	18,65	20,515	41,03	17,44	20	EPR	6	In contact	35	OK	0,31%			0,021
string 1.18.1.1.13	string box SB 1,18.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	44,67	49,137	98,274	17,44	20	EPR	6	In contact	35	OK	0,74%			0,051
string 1.18.1.1.14	string box SB 1,18.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	44,67	49,137	98,274	17,44	20	EPR	6	In contact	35	OK	0,74%			0,051
string 1.18.1.1.15	string box SB 1,18.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	25,87	28,457	56,914	17,44	20	EPR	6	In contact	35	OK	0,43%			0,029
string 1.18.1.1.16	string box SB 1,18.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	25,87	28,457	56,914	17,44	20	EPR	6	In contact	35	OK	0,43%			0,029
string 1.18.1.1.17	string box SB 1,18.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	44,02	48,422	96,844	17,44	20	EPR	6	In contact	35	OK	0,72%			0,050
string 1.18.1.1.18	string box SB 1,18.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	44,02	48,422	96,844	17,44	20	EPR	6	In contact	35	OK	0,72%			0,050
string box SB 1,18.1.1	conversion unit CU 18,	ARG70R	ALUMINIUM	2x 1 x 185	16,97	18,667	37,334	313,92	20	EPR	1	In contact	448	OK	0,22%			0,301687
														MAX. VOLTAGE DROP	1,23%	2%	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 1.19.1.1.1	string box SB 1,19.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	67,97	74,767	149,53	17,44	20	EPR	6	In contact	47,5	OK	0,64%			0,044

string	1 . 19 . 1 . 1	2	string box	SB 1 , 19 . 1 . 1	H1Z2Z2	TINNED COPPER	2x	1	x	10	67,97	74,767	149,53	17,44	20	EPR	6	In contact	47,5	OK	0,64%			0,044
string	1 . 19 . 1 . 1	3	string box	SB 1 , 19 . 1 . 1	H1Z2Z2	TINNED COPPER	2x	1	x	6	44,67	49,137	98,274	17,44	20	EPR	6	In contact	35	OK	0,74%			0,051
string	1 . 19 . 1 . 1	4	string box	SB 1 , 19 . 1 . 1	H1Z2Z2	TINNED COPPER	2x	1	x	6	44,67	49,137	98,274	17,44	20	EPR	6	In contact	35	OK	0,74%			0,051
string	1 . 19 . 1 . 1	5	string box	SB 1 , 19 . 1 . 1	H1Z2Z2	TINNED COPPER	2x	1	x	10	64,63	71,093	142,19	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string	1 . 19 . 1 . 1	6	string box	SB 1 , 19 . 1 . 1	H1Z2Z2	TINNED COPPER	2x	1	x	10	64,63	71,093	142,19	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string	1 . 19 . 1 . 1	7	string box	SB 1 , 19 . 1 . 1	H1Z2Z2	TINNED COPPER	2x	1	x	6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string	1 . 19 . 1 . 1	8	string box	SB 1 , 19 . 1 . 1	H1Z2Z2	TINNED COPPER	2x	1	x	6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string	1 . 19 . 1 . 1	9	string box	SB 1 , 19 . 1 . 1	H1Z2Z2	TINNED COPPER	2x	1	x	10	61,33	67,463	134,93	17,44	20	EPR	6	In contact	47,5	OK	0,58%			0,040
string	1 . 19 . 1 . 1	10	string box	SB 1 , 19 . 1 . 1	H1Z2Z2	TINNED COPPER	2x	1	x	10	61,33	67,463	134,93	17,44	20	EPR	6	In contact	47,5	OK	0,58%			0,040
string	1 . 19 . 1 . 1	11	string box	SB 1 , 19 . 1 . 1	H1Z2Z2	TINNED COPPER	2x	1	x	6	18,07	19,877	39,754	17,44	20	EPR	6	In contact	35	OK	0,30%			0,020
string	1 . 19 . 1 . 1	12	string box	SB 1 , 19 . 1 . 1	H1Z2Z2	TINNED COPPER	2x	1	x	6	18,07	19,877	39,754	17,44	20	EPR	6	In contact	35	OK	0,30%			0,020
string box	SB 1 , 19 . 1 . 1		conversion unit	CU 19 ,	ARG70R	ALUMINIUM	2x	1	x	300	205,23	225,753	451,51	209,28	20	EPR	4	25	435,84	OK	1,09%			0,988756
																		MAX. VOLTAGE DROP			**1,83%**	**2%**	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviro ment Temp. [°C]	Insulat ing	Numb er of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 1 . 19 . 1 . 2 . 1	string box SB 1 , 19 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	18,07	19,877	39,754	17,44	20	EPR	6	In contact	35	OK	0,30%			0,020
string 1 . 19 . 1 . 2 2	string box SB 1 , 19 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	18,07	19,877	39,754	17,44	20	EPR	6	In contact	35	OK	0,30%			0,020
string 1 . 19 . 1 . 2 3	string box SB 1 , 19 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 10	61,33	67,463	134,93	17,44	20	EPR	6	In contact	47,5	OK	0,58%			0,040
string 1 . 19 . 1 . 2 4	string box SB 1 , 19 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 10	61,33	67,463	134,93	17,44	20	EPR	6	In contact	47,5	OK	0,58%			0,040
string 1 . 19 . 1 . 2 5	string box SB 1 , 19 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 16	104,58	115,038	230,08	17,44	20	EPR	6	In contact	65	OK	0,63%			0,043
string 1 . 19 . 1 . 2 6	string box SB 1 , 19 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 16	104,58	115,038	230,08	17,44	20	EPR	6	In contact	65	OK	0,63%			0,043
string 1 . 19 . 1 . 2 7	string box SB 1 , 19 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 1 . 19 . 1 . 2 8	string box SB 1 , 19 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 1 . 19 . 1 . 2 9	string box SB 1 , 19 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 10	64,63	71,093	142,19	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string 1 . 19 . 1 . 2 10	string box SB 1 , 19 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 10	64,63	71,093	142,19	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string 1 . 19 . 1 . 2 11	string box SB 1 , 19 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 16	107,89	118,679	237,36	17,44	20	EPR	6	In contact	65	OK	0,65%			0,045
string 1 . 19 . 1 . 2 12	string box SB 1 , 19 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 16	107,89	118,679	237,36	17,44	20	EPR	6	In contact	65	OK	0,65%			0,045
string 1 . 19 . 1 . 2 13	string box SB 1 , 19 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	44,67	49,137	98,274	17,44	20	EPR	6	In contact	35	OK	0,74%			0,051
string 1 . 19 . 1 . 2 14	string box SB 1 , 19 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	44,67	49,137	98,274	17,44	20	EPR	6	In contact	35	OK	0,74%			0,051
string 1 . 19 . 1 . 2 15	string box SB 1 , 19 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 10	87,93	96,723	193,45	17,44	20	EPR	6	In contact	47,5	OK	0,83%			0,057
string 1 . 19 . 1 . 2 16	string box SB 1 , 19 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 10	87,93	96,723	193,45	17,44	20	EPR	6	In contact	47,5	OK	0,83%			0,057
string box SB 1 , 19 . 1 . 2	conversion unit	CU 19 ,	ARG70R	ALUMINIUM	2x 1 x 300	163,39	179,729	359,46	279,04	20	EPR	4	25	435,84	OK	1,16%			1,39943
														MAX. VOLTAGE DROP		**1,99%**	**2%**	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviro ment Temp. [°C]	Insulat ing	Numb er of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 1 . 19 . 1 . 3 . 1	string box SB 1 , 19 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 16	101,28	111,408	222,82	17,44	20	EPR	6	In contact	65	OK	0,61%			0,042
string 1 . 19 . 1 . 3 2	string box SB 1 , 19 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 16	101,28	111,408	222,82	17,44	20	EPR	6	In contact	65	OK	0,61%			0,042
string 1 . 19 . 1 . 3 3	string box SB 1 , 19 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	18,07	19,877	39,754	17,44	20	EPR	6	In contact	35	OK	0,30%			0,020
string 1 . 19 . 1 . 3 4	string box SB 1 , 19 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	18,07	19,877	39,754	17,44	20	EPR	6	In contact	35	OK	0,30%			0,020
string 1 . 19 . 1 . 3 5	string box SB 1 , 19 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	61,33	67,463	134,93	17,44	20	EPR	6	In contact	35	OK	1,01%			0,070
string 1 . 19 . 1 . 3 6	string box SB 1 , 19 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	61,33	67,463	134,93	17,44	20	EPR	6	In contact	35	OK	1,01%			0,070
string 1 . 19 . 1 . 3 7	string box SB 1 , 19 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 16	104,58	115,038	230,08	17,44	20	EPR	6	In contact	65	OK	0,63%			0,043
string 1 . 19 . 1 . 3 8	string box SB 1 , 19 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 16	104,58	115,038	230,08	17,44	20	EPR	6	In contact	65	OK	0,63%			0,043
string 1 . 19 . 1 . 3 9	string box SB 1 , 19 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 1 . 19 . 1 . 3 10	string box SB 1 , 19 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 1 . 19 . 1 . 3 11	string box SB 1 , 19 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	64,63	71,093	142,19	17,44	20	EPR	6	In contact	35	OK	1,06%			0,073
string 1 . 19 . 1 . 3 12	string box SB 1 , 19 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	64,63	71,093	142,19	17,44	20	EPR	6	In contact	35	OK	1,06%			0,073
string 1 . 19 . 1 . 3 13	string box SB 1 , 19 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 16	107,89	118,679	237,36	17,44	20	EPR	6	In contact	65	OK	0,65%			0,045
string 1 . 19 . 1 . 3 14	string box SB 1 , 19 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 16	107,89	118,679	237,36	17,44	20	EPR	6	In contact	65	OK	0,65%			0,045

string	1 . 19 . 1 . 3	15	string box	SB 1 , 19 . 1 . 3	H1Z2Z2	TINNED COPPER	2x	1	x	6	44,67	49,137	98,274	17,44	20	EPR	6	In contact	35	OK	0,74%			0,051
string	1 . 19 . 1 . 3	16	string box	SB 1 , 19 . 1 . 3	H1Z2Z2	TINNED COPPER	2x	1	x	6	44,67	49,137	98,274	17,44	20	EPR	6	In contact	35	OK	0,74%			0,051
string	1 . 19 . 1 . 3	17	string box	SB 1 , 19 . 1 . 3	H1Z2Z2	TINNED COPPER	2x	1	x	10	87,93	96,723	193,45	17,44	20	EPR	6	In contact	47,5	OK	0,83%			0,057
string	1 . 19 . 1 . 3	18	string box	SB 1 , 19 . 1 . 3	H1Z2Z2	TINNED COPPER	2x	1	x	10	87,93	96,723	193,45	17,44	20	EPR	6	In contact	47,5	OK	0,83%			0,057
string box	SB 1 , 19 . 1 . 3		conversion unit	CU 19 ,	ARG70R	ALUMINIUM	2x	1	x	300	113,9	125,29	250,58	313,92	20	EPR	4	25	435,84	OK	0,91%			1,23468
																					MAX. VOLTAGE DROP	**1,97%**	**2%**	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 1 . 19 . 2 . 1 . 1	string box SB 1 , 19 . 2 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 16	101,28	111,408	222,82	17,44	20	EPR	6	In contact	65	OK	0,61%			0,042
string 1 . 19 . 2 . 1 . 2	string box SB 1 , 19 . 2 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 16	101,28	111,408	222,82	17,44	20	EPR	6	In contact	65	OK	0,61%			0,042
string 1 . 19 . 2 . 1 . 3	string box SB 1 , 19 . 2 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	18,07	19,877	39,754	17,44	20	EPR	6	In contact	35	OK	0,30%			0,020
string 1 . 19 . 2 . 1 . 4	string box SB 1 , 19 . 2 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	18,07	19,877	39,754	17,44	20	EPR	6	In contact	35	OK	0,30%			0,020
string 1 . 19 . 2 . 1 . 5	string box SB 1 , 19 . 2 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	61,33	67,463	134,93	17,44	20	EPR	6	In contact	35	OK	1,01%			0,070
string 1 . 19 . 2 . 1 . 6	string box SB 1 , 19 . 2 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	61,33	67,463	134,93	17,44	20	EPR	6	In contact	35	OK	1,01%			0,070
string 1 . 19 . 2 . 1 . 7	string box SB 1 , 19 . 2 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 16	104,58	115,038	230,08	17,44	20	EPR	6	In contact	65	OK	0,63%			0,043
string 1 . 19 . 2 . 1 . 8	string box SB 1 , 19 . 2 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 16	104,58	115,038	230,08	17,44	20	EPR	6	In contact	65	OK	0,63%			0,043
string 1 . 19 . 2 . 1 . 9	string box SB 1 , 19 . 2 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 1 . 19 . 2 . 1 . 10	string box SB 1 , 19 . 2 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 1 . 19 . 2 . 1 . 11	string box SB 1 , 19 . 2 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	64,63	71,093	142,19	17,44	20	EPR	6	In contact	35	OK	1,06%			0,073
string 1 . 19 . 2 . 1 . 12	string box SB 1 , 19 . 2 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	64,63	71,093	142,19	17,44	20	EPR	6	In contact	35	OK	1,06%			0,073
string 1 . 19 . 2 . 1 . 13	string box SB 1 , 19 . 2 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 16	107,89	118,679	237,36	17,44	20	EPR	6	In contact	65	OK	0,65%			0,045
string 1 . 19 . 2 . 1 . 14	string box SB 1 , 19 . 2 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 16	107,89	118,679	237,36	17,44	20	EPR	6	In contact	65	OK	0,65%			0,045
string 1 . 19 . 2 . 1 . 15	string box SB 1 , 19 . 2 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	44,67	49,137	98,274	17,44	20	EPR	6	In contact	35	OK	0,74%			0,051
string 1 . 19 . 2 . 1 . 16	string box SB 1 , 19 . 2 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	44,67	49,137	98,274	17,44	20	EPR	6	In contact	35	OK	0,74%			0,051
string 1 . 19 . 2 . 1 . 17	string box SB 1 , 19 . 2 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 10	87,93	96,723	193,45	17,44	20	EPR	6	In contact	47,5	OK	0,83%			0,057
string 1 . 19 . 2 . 1 . 18	string box SB 1 , 19 . 2 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 10	87,93	96,723	193,45	17,44	20	EPR	6	In contact	47,5	OK	0,83%			0,057
string box SB 1 , 19 . 2 . 1	conversion unit CU 19 ,	ARG70R	ALUMINIUM	2x 1 x 240	64,42	70,862	141,72	313,92	20	EPR	4	25	396,48	OK	0,64%			0,872894
															MAX. VOLTAGE DROP	**1,71%**	**2%**	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 1 . 19 . 2 . 2 . 1	string box SB 1 , 19 . 2 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 10	86,86	95,546	191,09	17,44	20	EPR	6	In contact	47,5	OK	0,82%			0,057
string 1 . 19 . 2 . 2 2	string box SB 1 , 19 . 2 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 10	86,86	95,546	191,09	17,44	20	EPR	6	In contact	47,5	OK	0,82%			0,057
string 1 . 19 . 2 . 2 3	string box SB 1 , 19 . 2 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	56,38	62,018	124,04	17,44	20	EPR	6	In contact	35	OK	0,93%			0,064
string 1 . 19 . 2 . 2 4	string box SB 1 , 19 . 2 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	29,2	32,12	64,24	17,44	20	EPR	6	In contact	35	OK	0,48%			0,033
string 1 . 19 . 2 . 2 5	string box SB 1 , 19 . 2 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	29,2	32,12	64,24	17,44	20	EPR	6	In contact	35	OK	0,48%			0,033
string 1 . 19 . 2 . 2 6	string box SB 1 , 19 . 2 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	72,45	79,695	159,39	17,44	20	EPR	6	In contact	35	OK	1,19%			0,082
string 1 . 19 . 2 . 2 7	string box SB 1 , 19 . 2 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	72,45	79,695	159,39	17,44	20	EPR	6	In contact	35	OK	1,19%			0,082
string 1 . 19 . 2 . 2 8	string box SB 1 , 19 . 2 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	16,42	18,062	36,124	17,44	20	EPR	6	In contact	35	OK	0,27%			0,019
string 1 . 19 . 2 . 2 9	string box SB 1 , 19 . 2 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	16,42	18,062	36,124	17,44	20	EPR	6	In contact	35	OK	0,27%			0,019
string 1 . 19 . 2 . 2 10	string box SB 1 , 19 . 2 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	58,02	63,822	127,64	17,44	20	EPR	6	In contact	35	OK	0,95%			0,066
string 1 . 19 . 2 . 2 11	string box SB 1 , 19 . 2 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	58,02	63,822	127,64	17,44	20	EPR	6	In contact	35	OK	0,95%			0,066
string 1 . 19 . 2 . 2 12	string box SB 1 , 19 . 2 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	10,85	11,935	23,87	17,44	20	EPR	6	In contact	35	OK	0,18%			0,012
string 1 . 19 . 2 . 2 13	string box SB 1 , 19 . 2 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	43,59	47,949	95,898	17,44	20	EPR	6	In contact	35	OK	0,72%			0,049
string 1 . 19 . 2 . 2 14	string box SB 1 , 19 . 2 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	43,59	47,949	95,898	17,44	20	EPR	6	In contact	35	OK	0,72%			0,049
string 1 . 19 . 2 . 2 15	string box SB 1 , 19 . 2 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	16,42	18,062	36,124	17,44	20	EPR	6	In contact	35	OK	0,27%			0,019
string 1 . 19 . 2 . 2 16	string box SB 1 , 19 . 2 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	49,16	54,076	108,15	17,44	20	EPR	6	In contact	35	OK	0,81%			0,056
string 1 . 19 . 2 . 2 17	string box SB 1 , 19 . 2 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	49,16	54,076	108,15	17,44	20	EPR	6	In contact	35	OK	0,81%			0,056
string 1 . 19 . 2 . 2 18	string box SB 1 , 19 . 2 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	54,73	60,203	120,41	17,44	20	EPR	6	In contact	35	OK	0,90%			0,062
string 1 . 19 . 2 . 2 19	string box SB 1 , 19 . 2 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	54,73	60,203	120,41	17,44	20	EPR	6	In contact	35	OK	0,90%			0,062

string 1 . 19 . 2 . 2 20	string box SB 1 , 19 . 2 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	70,93	78,023	156,05	17,44	20	EPR	6	In contact	35	OK	1,17%			0,080
string box SB 1 , 19 . 2 . 2	conversion unit CU 19 ,	ARG70R	ALUMINIUM	2x 1 x 185	15,38	16,918	33,836	348,8	20	EPR	1	In contact	448	OK	0,22%			0,337556
												MAX. VOLTAGE DROP			1,42%	2%	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Environment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 1 . 20 . 1 . 1 . 1	string box SB 1 , 20 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	43,67	48,037	96,074	17,44	20	EPR	6	In contact	35	OK	0,72%			0,050
string 1 . 20 . 1 . 1 2	string box SB 1 , 20 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	35,63	39,193	78,386	17,44	20	EPR	6	In contact	35	OK	0,59%			0,040
string 1 . 20 . 1 . 1 3	string box SB 1 , 20 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	35,63	39,193	78,386	17,44	20	EPR	6	In contact	35	OK	0,59%			0,040
string 1 . 20 . 1 . 1 4	string box SB 1 , 20 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	39,69	43,659	87,318	17,44	20	EPR	6	In contact	35	OK	0,65%			0,045
string 1 . 20 . 1 . 1 5	string box SB 1 , 20 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	39,69	43,659	87,318	17,44	20	EPR	6	In contact	35	OK	0,65%			0,045
string 1 . 20 . 1 . 1 6	string box SB 1 , 20 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	10,85	11,935	23,87	17,44	20	EPR	6	In contact	35	OK	0,18%			0,012
string 1 . 20 . 1 . 1 7	string box SB 1 , 20 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	43,59	47,949	95,898	17,44	20	EPR	6	In contact	35	OK	0,72%			0,049
string 1 . 20 . 1 . 1 8	string box SB 1 , 20 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	43,59	47,949	95,898	17,44	20	EPR	6	In contact	35	OK	0,72%			0,049
string 1 . 20 . 1 . 1 9	string box SB 1 , 20 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	20,93	23,023	46,046	17,44	20	EPR	6	In contact	35	OK	0,34%			0,024
string 1 . 20 . 1 . 1 10	string box SB 1 , 20 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	20,93	23,023	46,046	17,44	20	EPR	6	In contact	35	OK	0,34%			0,024
string 1 . 20 . 1 . 1 11	string box SB 1 , 20 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 10	67,57	74,327	148,65	17,44	20	EPR	6	In contact	47,5	OK	0,64%			0,044
string 1 . 20 . 1 . 1 12	string box SB 1 , 20 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 10	67,57	74,327	148,65	17,44	20	EPR	6	In contact	47,5	OK	0,64%			0,044
string 1 . 20 . 1 . 1 13	string box SB 1 , 20 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	48,3	53,13	106,26	17,44	20	EPR	6	In contact	35	OK	0,79%			0,055
string 1 . 20 . 1 . 1 14	string box SB 1 , 20 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	48,3	53,13	106,26	17,44	20	EPR	6	In contact	35	OK	0,79%			0,055
string 1 . 20 . 1 . 1 15	string box SB 1 , 20 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 10	91,55	100,705	201,41	17,44	20	EPR	6	In contact	47,5	OK	0,87%			0,060
string 1 . 20 . 1 . 1 16	string box SB 1 , 20 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 10	91,55	100,705	201,41	17,44	20	EPR	6	In contact	47,5	OK	0,87%			0,060
string box SB 1 , 20 . 1 . 1	conversion unit CU 20 ,	ARG70R	ALUMINIUM	2x 1 x 185	80,57	88,627	177,25	279,04	20	EPR	2	25	403,2	OK	0,94%			1,13173
												MAX. VOLTAGE DROP			1,81%	2%	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Environment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 1 . 20 . 1 . 2 . 1	string box SB 1 , 20 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	46	50,6	101,2	17,44	20	EPR	6	In contact	35	OK	0,76%			0,052
string 1 . 20 . 1 . 2 2	string box SB 1 , 20 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	39,46	43,406	86,812	17,44	20	EPR	6	In contact	35	OK	0,65%			0,045
string 1 . 20 . 1 . 2 3	string box SB 1 , 20 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	39,46	43,406	86,812	17,44	20	EPR	6	In contact	35	OK	0,65%			0,045
string 1 . 20 . 1 . 2 4	string box SB 1 , 20 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 10	82,71	90,981	181,96	17,44	20	EPR	6	In contact	47,5	OK	0,78%			0,054
string 1 . 20 . 1 . 2 5	string box SB 1 , 20 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 10	82,71	90,981	181,96	17,44	20	EPR	6	In contact	47,5	OK	0,78%			0,054
string 1 . 20 . 1 . 2 6	string box SB 1 , 20 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 16	125,97	138,567	277,13	17,44	20	EPR	6	In contact	65	OK	0,76%			0,052
string 1 . 20 . 1 . 2 7	string box SB 1 , 20 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 16	125,97	138,567	277,13	17,44	20	EPR	6	In contact	65	OK	0,76%			0,052
string 1 . 20 . 1 . 2 8	string box SB 1 , 20 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	10,85	11,935	23,87	17,44	20	EPR	6	In contact	35	OK	0,18%			0,012
string 1 . 20 . 1 . 2 9	string box SB 1 , 20 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	43,59	47,949	95,898	17,44	20	EPR	6	In contact	35	OK	0,72%			0,049
string 1 . 20 . 1 . 2 10	string box SB 1 , 20 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	43,59	47,949	95,898	17,44	20	EPR	6	In contact	35	OK	0,72%			0,049
string 1 . 20 . 1 . 2 11	string box SB 1 , 20 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 10	86,85	95,535	191,07	17,44	20	EPR	6	In contact	47,5	OK	0,82%			0,057
string 1 . 20 . 1 . 2 12	string box SB 1 , 20 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 10	86,85	95,535	191,07	17,44	20	EPR	6	In contact	47,5	OK	0,82%			0,057
string 1 . 20 . 1 . 2 13	string box SB 1 , 20 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 10	122,02	134,222	268,44	17,44	20	EPR	6	In contact	47,5	OK	1,16%			0,080
string 1 . 20 . 1 . 2 14	string box SB 1 , 20 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 10	122,02	134,222	268,44	17,44	20	EPR	6	In contact	47,5	OK	1,16%			0,080
string 1 . 20 . 1 . 2 15	string box SB 1 , 20 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 16	112,18	123,398	246,8	17,44	20	EPR	6	In contact	65	OK	0,68%			0,047
string 1 . 20 . 1 . 2 16	string box SB 1 , 20 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 16	112,18	123,398	246,8	17,44	20	EPR	6	In contact	65	OK	0,68%			0,047
string 1 . 20 . 1 . 2 17	string box SB 1 , 20 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 16	147,35	162,085	324,17	17,44	20	EPR	6	In contact	65	OK	0,89%			0,061
string 1 . 20 . 1 . 2 18	string box SB 1 , 20 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 16	147,35	162,085	324,17	17,44	20	EPR	6	In contact	65	OK	0,89%			0,061
string box SB 1 , 20 . 1 . 2	conversion unit CU 20 ,	ARG70R	ALUMINIUM	2x 1 x 185	23,61	25,971	51,942	313,92	20	EPR	2	25	403,2	OK	0,31%			0,41973
												MAX. VOLTAGE DROP			1,46%	2%	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 1.20.1.3.1	string box SB 1,20.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	17,39	19,129	38,258	17,44	20	EPR	6	In contact	35	OK	0,29%			0,020
string 1.20.1.3.2	string box SB 1,20.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	17,39	19,129	38,258	17,44	20	EPR	6	In contact	35	OK	0,29%			0,020
string 1.20.1.3.3	string box SB 1,20.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	60,65	66,715	133,43	17,44	20	EPR	6	In contact	35	OK	1,00%			0,069
string 1.20.1.3.4	string box SB 1,20.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	60,65	66,715	133,43	17,44	20	EPR	6	In contact	35	OK	1,00%			0,069
string 1.20.1.3.5	string box SB 1,20.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 1.20.1.3.6	string box SB 1,20.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 1.20.1.3.7	string box SB 1,20.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	64,63	71,093	142,19	17,44	20	EPR	6	In contact	35	OK	1,06%			0,073
string 1.20.1.3.8	string box SB 1,20.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	64,63	71,093	142,19	17,44	20	EPR	6	In contact	35	OK	1,06%			0,073
string 1.20.1.3.9	string box SB 1,20.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 16	107,89	118,679	237,36	17,44	20	EPR	6	In contact	65	OK	0,65%			0,045
string 1.20.1.3.10	string box SB 1,20.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 16	107,89	118,679	237,36	17,44	20	EPR	6	In contact	65	OK	0,65%			0,045
string 1.20.1.3.11	string box SB 1,20.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	45,35	49,885	99,77	17,44	20	EPR	6	In contact	35	OK	0,75%			0,051
string 1.20.1.3.12	string box SB 1,20.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	45,35	49,885	99,77	17,44	20	EPR	6	In contact	35	OK	0,75%			0,051
string 1.20.1.3.13	string box SB 1,20.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	88,61	97,471	194,94	17,44	20	EPR	6	In contact	47,5	OK	0,84%			0,058
string 1.20.1.3.14	string box SB 1,20.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	88,61	97,471	194,94	17,44	20	EPR	6	In contact	47,5	OK	0,84%			0,058
string 1.20.1.3.15	string box SB 1,20.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 16	131,87	145,057	290,11	17,44	20	EPR	6	In contact	65	OK	0,79%			0,055
string 1.20.1.3.16	string box SB 1,20.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 16	131,87	145,057	290,11	17,44	20	EPR	6	In contact	65	OK	0,79%			0,055
string 1.20.1.3.17	string box SB 1,20.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	67,86	74,646	149,29	17,44	20	EPR	6	In contact	35	OK	1,12%			0,077
string 1.20.1.3.18	string box SB 1,20.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	67,86	74,646	149,29	17,44	20	EPR	6	In contact	35	OK	1,12%			0,077
string 1.20.1.3.19	string box SB 1,20.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 16	111,11	122,221	244,44	17,44	20	EPR	6	In contact	65	OK	0,67%			0,046
string 1.20.1.3.20	string box SB 1,20.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 16	111,11	122,221	244,44	17,44	20	EPR	6	In contact	65	OK	0,67%			0,046
string box SB 1,20.1.3	conversion unit CU 20,	ARG70R	ALUMINIUM	2x 1 x 185	18,68	20,548	41,096	348,8	20	EPR	1	In contact	448	OK	0,27%			0,409983
														MAX. VOLTAGE DROP	1,39%	2%	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 1.20.2.1.1	string box SB 1,20.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	46,15	50,765	101,53	17,44	20	EPR	6	In contact	35	OK	0,76%			0,052
string 1.20.2.1.2	string box SB 1,20.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	38,13	41,943	83,886	17,44	20	EPR	6	In contact	35	OK	0,63%			0,043
string 1.20.2.1.3	string box SB 1,20.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	38,13	41,943	83,886	17,44	20	EPR	6	In contact	35	OK	0,63%			0,043
string 1.20.2.1.4	string box SB 1,20.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	10,85	11,935	23,87	17,44	20	EPR	6	In contact	35	OK	0,18%			0,012
string 1.20.2.1.5	string box SB 1,20.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	43,59	47,949	95,898	17,44	20	EPR	6	In contact	35	OK	0,72%			0,049
string 1.20.2.1.6	string box SB 1,20.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	43,59	47,949	95,898	17,44	20	EPR	6	In contact	35	OK	0,72%			0,049
string 1.20.2.1.7	string box SB 1,20.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	86,85	95,535	191,07	17,44	20	EPR	6	In contact	47,5	OK	0,82%			0,057
string 1.20.2.1.8	string box SB 1,20.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	86,85	95,535	191,07	17,44	20	EPR	6	In contact	47,5	OK	0,82%			0,057
string 1.20.2.1.9	string box SB 1,20.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 16	130,1	143,11	286,22	17,44	20	EPR	6	In contact	65	OK	0,78%			0,054
string 1.20.2.1.10	string box SB 1,20.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 16	130,1	143,11	286,22	17,44	20	EPR	6	In contact	65	OK	0,78%			0,054
string 1.20.2.1.11	string box SB 1,20.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	24,31	26,741	53,482	17,44	20	EPR	6	In contact	35	OK	0,40%			0,028
string 1.20.2.1.12	string box SB 1,20.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	24,31	26,741	53,482	17,44	20	EPR	6	In contact	35	OK	0,40%			0,028
string 1.20.2.1.13	string box SB 1,20.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	67,57	74,327	148,65	17,44	20	EPR	6	In contact	35	OK	1,11%			0,077
string 1.20.2.1.14	string box SB 1,20.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	67,57	74,327	148,65	17,44	20	EPR	6	In contact	35	OK	1,11%			0,077
string 1.20.2.1.15	string box SB 1,20.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 16	110,83	121,913	243,83	17,44	20	EPR	6	In contact	65	OK	0,67%			0,046
string 1.20.2.1.16	string box SB 1,20.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 16	110,83	121,913	243,83	17,44	20	EPR	6	In contact	65	OK	0,67%			0,046
string 1.20.2.1.17	string box SB 1,20.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	48,3	53,13	106,26	17,44	20	EPR	6	In contact	35	OK	0,79%			0,055
string 1.20.2.1.18	string box SB 1,20.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	48,3	53,13	106,26	17,44	20	EPR	6	In contact	35	OK	0,79%			0,055
string 1.20.2.1.19	string box SB 1,20.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	91,55	100,705	201,41	17,44	20	EPR	6	In contact	47,5	OK	0,87%			0,060
string 1.20.2.1.20	string box SB 1,20.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	91,55	100,705	201,41	17,44	20	EPR	6	In contact	47,5	OK	0,87%			0,060
string box SB 1,20.2.1	conversion unit CU 20,	ARG70R	ALUMINIUM	2x 1 x 240	31,28	34,408	68,816	348,8	20	EPR	2	25	475,776	OK	0,35%			0,523266
														MAX. VOLTAGE DROP	1,46%	2%	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 1.20.2.2.1	string box SB 20,16.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	32,82	36,102	72,204	17,44	20	EPR	6	In contact	35	OK	0,54%			0,037
string 1.20.2.2.2	string box SB 20,16.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	34,51	37,961	75,922	17,44	20	EPR	6	In contact	35	OK	0,57%			0,039
string 1.20.2.2.3	string box SB 20,16.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	34,51	37,961	75,922	17,44	20	EPR	6	In contact	35	OK	0,57%			0,039
string 1.20.2.2.4	string box SB 20,16.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	81	89,1	178,2	17,44	20	EPR	6	In contact	47,5	OK	0,77%			0,053
string 1.20.2.2.5	string box SB 20,16.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	81	89,1	178,2	17,44	20	EPR	6	In contact	47,5	OK	0,77%			0,053
string 1.20.2.2.6	string box SB 20,16.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 16	91	100,1	200,2	17,44	20	EPR	6	In contact	65	OK	0,55%			0,038
string 1.20.2.2.7	string box SB 20,16.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 16	91	100,1	200,2	17,44	20	EPR	6	In contact	65	OK	0,55%			0,038
string 1.20.2.2.8	string box SB 20,16.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 1.20.2.2.9	string box SB 20,16.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 1.20.2.2.10	string box SB 20,16.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	64,63	71,093	142,19	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string 1.20.2.2.11	string box SB 20,16.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	64,63	71,093	142,19	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string 1.20.2.2.12	string box SB 20,16.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	28,33	31,163	62,326	17,44	20	EPR	6	In contact	35	OK	0,47%			0,032
string 1.20.2.2.13	string box SB 20,16.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	28,33	31,163	62,326	17,44	20	EPR	6	In contact	35	OK	0,47%			0,032
string 1.20.2.2.14	string box SB 20,16.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	71,5	78,65	157,3	17,44	20	EPR	6	In contact	47,5	OK	0,68%			0,047
string 1.20.2.2.15	string box SB 20,16.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	71,5	78,65	157,3	17,44	20	EPR	6	In contact	47,5	OK	0,68%			0,047
string 1.20.2.2.16	string box SB 20,16.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	45,72	50,292	100,58	17,44	20	EPR	6	In contact	35	OK	0,75%			0,052
string 1.20.2.2.17	string box SB 20,16.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	78,36	86,196	172,39	17,44	20	EPR	6	In contact	47,5	OK	0,74%			0,051
string 1.20.2.2.18	string box SB 20,16.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	78,36	86,196	172,39	17,44	20	EPR	6	In contact	47,5	OK	0,74%			0,051
string 1.20.2.2.19	string box SB 20,16.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	85,23	93,753	187,51	17,44	20	EPR	6	In contact	47,5	OK	0,81%			0,056
string 1.20.2.2.20	string box SB 20,16.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	85,23	93,753	187,51	17,44	20	EPR	6	In contact	47,5	OK	0,81%			0,056
string box SB 1,20.2.2	conversion unit CU 20,	ARG70R	ALUMINIUM	2x 1 x 300	104,28	114,708	229,42	348,8	20	EPR	2	25	523,008	OK	0,93%			1,395554
														MAX. VOLTAGE DROP	1,73%	2%	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 1.21.1.1.1	string box SB 1,21.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 16	67,86	74,646	149,29	17,44	20	EPR	6	In contact	65	OK	0,41%			0,028
string 1.21.1.1.2	string box SB 1,21.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 16	67,86	74,646	149,29	17,44	20	EPR	6	In contact	65	OK	0,41%			0,028
string 1.21.1.1.3	string box SB 1,21.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	43,87	48,257	96,514	17,44	20	EPR	6	In contact	47,5	OK	0,42%			0,029
string 1.21.1.1.4	string box SB 1,21.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	43,87	48,257	96,514	17,44	20	EPR	6	In contact	47,5	OK	0,42%			0,029
string 1.21.1.1.5	string box SB 1,21.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	21,37	23,507	47,014	17,44	20	EPR	6	In contact	47,5	OK	0,20%			0,014
string 1.21.1.1.6	string box SB 1,21.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	21,37	23,507	47,014	17,44	20	EPR	6	In contact	47,5	OK	0,20%			0,014
string 1.21.1.1.7	string box SB 1,21.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 16	64,63	71,093	142,19	17,44	20	EPR	6	In contact	65	OK	0,39%			0,027
string 1.21.1.1.8	string box SB 1,21.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 16	64,63	71,093	142,19	17,44	20	EPR	6	In contact	65	OK	0,39%			0,027
string 1.21.1.1.9	string box SB 1,21.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	15,91	17,501	35,002	17,44	20	EPR	6	In contact	35	OK	0,26%			0,018
string 1.21.1.1.10	string box SB 1,21.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	15,91	17,501	35,002	17,44	20	EPR	6	In contact	35	OK	0,26%			0,018
string 1.21.1.1.11	string box SB 1,21.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 16	59,17	65,087	130,17	17,44	20	EPR	6	In contact	65	OK	0,36%			0,025
string 1.21.1.1.12	string box SB 1,21.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 16	59,17	65,087	130,17	17,44	20	EPR	6	In contact	65	OK	0,36%			0,025
string box SB 1,21.1.1	conversion unit CU 21,	ARG70R	ALUMINIUM	2x 1 x 300	278,82	306,702	613,4	209,28	20	EPR	5	25	406,784	OK	1,49%			1,343297
														MAX. VOLTAGE DROP	1,90%	2%	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 1.21.1.2.1	string box SB 1,21.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 16	132,21	145,431	290,86	17,44	20	EPR	6	In contact	65	OK	0,80%			0,055
string 1.21.1.2.2	string box SB 1,21.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 16	132,21	145,431	290,86	17,44	20	EPR	6	In contact	65	OK	0,80%			0,055
string 1.21.1.2.3	string box SB 1,21.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	88,61	97,471	194,94	17,44	20	EPR	6	In contact	47,5	OK	0,84%			0,058

string	1	21	1	2	4	string box	SB	1	21	1	2	H1Z2Z2	TINNED COPPER	2x	1	x	10	88,61	97,471	194,94	17,44	20	EPR	6	In contact	47,5	OK	0,84%			0,058
string	1	21	1	2	5	string box	SB	1	21	1	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	45,35	49,885	99,77	17,44	20	EPR	6	In contact	35	OK	0,75%			0,051
string	1	21	1	2	6	string box	SB	1	21	1	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	45,35	49,885	99,77	17,44	20	EPR	6	In contact	35	OK	0,75%			0,051
string	1	21	1	2	7	string box	SB	1	21	1	2	H1Z2Z2	TINNED COPPER	2x	1	x	16	107,89	118,679	237,36	17,44	20	EPR	6	In contact	65	OK	0,65%			0,045
string	1	21	1	2	8	string box	SB	1	21	1	2	H1Z2Z2	TINNED COPPER	2x	1	x	16	107,89	118,679	237,36	17,44	20	EPR	6	In contact	65	OK	0,65%			0,045
string	1	21	1	2	9	string box	SB	1	21	1	2	H1Z2Z2	TINNED COPPER	2x	1	x	10	64,63	71,093	142,19	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string	1	21	1	2	10	string box	SB	1	21	1	2	H1Z2Z2	TINNED COPPER	2x	1	x	10	64,63	71,093	142,19	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string	1	21	1	2	11	string box	SB	1	21	1	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string	1	21	1	2	12	string box	SB	1	21	1	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string	1	21	1	2	13	string box	SB	1	21	1	2	H1Z2Z2	TINNED COPPER	2x	1	x	16	121,18	133,298	266,6	17,44	20	EPR	6	In contact	65	OK	0,73%			0,050
string	1	21	1	2	14	string box	SB	1	21	1	2	H1Z2Z2	TINNED COPPER	2x	1	x	16	121,18	133,298	266,6	17,44	20	EPR	6	In contact	65	OK	0,73%			0,050
string	1	21	1	2	15	string box	SB	1	21	1	2	H1Z2Z2	TINNED COPPER	2x	1	x	10	77,76	85,536	171,07	17,44	20	EPR	6	In contact	47,5	OK	0,74%			0,051
string	1	21	1	2	16	string box	SB	1	21	1	2	H1Z2Z2	TINNED COPPER	2x	1	x	10	77,76	85,536	171,07	17,44	20	EPR	6	In contact	47,5	OK	0,74%			0,051
string	1	21	1	2	17	string box	SB	1	21	1	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	34,67	38,137	76,274	17,44	20	EPR	6	In contact	35	OK	0,57%			0,039
string	1	21	1	2	18	string box	SB	1	21	1	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	34,67	38,137	76,274	17,44	20	EPR	6	In contact	35	OK	0,57%			0,039
string box	SB	1	21	1	2	conversion unit	CU		21			ARG70R	ALUMINIUM	2x	2	x	240	225,88	248,468	993,87	313,92	20	EPR	5	25	370,048	OK	1,13%			1,530342
																										MAX. VOLTAGE DROP		1,97%	2%	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 1 . 21 . 1 . 3 . 1	string box SB 1 , 21 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 16	114,75	126,225	252,45	17,44	20	EPR	6	In contact	65	OK	0,69%			0,048
string 1 . 21 . 1 . 3 2	string box SB 1 , 21 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 16	114,75	126,225	252,45	17,44	20	EPR	6	In contact	65	OK	0,69%			0,048
string 1 . 21 . 1 . 3 3	string box SB 1 , 21 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 10	71,28	78,408	156,82	17,44	20	EPR	6	In contact	47,5	OK	0,67%			0,047
string 1 . 21 . 1 . 3 4	string box SB 1 , 21 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 10	71,28	78,408	156,82	17,44	20	EPR	6	In contact	47,5	OK	0,67%			0,047
string 1 . 21 . 1 . 3 5	string box SB 1 , 21 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	28,24	31,064	62,128	17,44	20	EPR	6	In contact	35	OK	0,46%			0,032
string 1 . 21 . 1 . 3 6	string box SB 1 , 21 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	28,24	31,064	62,128	17,44	20	EPR	6	In contact	35	OK	0,46%			0,032
string 1 . 21 . 1 . 3 7	string box SB 1 , 21 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 16	107,89	118,679	237,36	17,44	20	EPR	6	In contact	65	OK	0,65%			0,045
string 1 . 21 . 1 . 3 8	string box SB 1 , 21 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 16	107,89	118,679	237,36	17,44	20	EPR	6	In contact	65	OK	0,65%			0,045
string 1 . 21 . 1 . 3 9	string box SB 1 , 21 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 10	64,63	71,093	142,19	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string 1 . 21 . 1 . 3 10	string box SB 1 , 21 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 10	64,63	71,093	142,19	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string 1 . 21 . 1 . 3 11	string box SB 1 , 21 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 1 . 21 . 1 . 3 12	string box SB 1 , 21 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 1 . 21 . 1 . 3 13	string box SB 1 , 21 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 16	121,02	133,122	266,24	17,44	20	EPR	6	In contact	65	OK	0,73%			0,050
string 1 . 21 . 1 . 3 14	string box SB 1 , 21 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 16	121,02	133,122	266,24	17,44	20	EPR	6	In contact	65	OK	0,73%			0,050
string 1 . 21 . 1 . 3 15	string box SB 1 , 21 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 10	77,76	85,536	171,07	17,44	20	EPR	6	In contact	47,5	OK	0,74%			0,051
string 1 . 21 . 1 . 3 16	string box SB 1 , 21 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 10	77,76	85,536	171,07	17,44	20	EPR	6	In contact	47,5	OK	0,74%			0,051
string 1 . 21 . 1 . 3 17	string box SB 1 , 21 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	34,49	37,939	75,878	17,44	20	EPR	6	In contact	35	OK	0,57%			0,039
string 1 . 21 . 1 . 3 18	string box SB 1 , 21 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	34,49	37,939	75,878	17,44	20	EPR	6	In contact	35	OK	0,57%			0,039
string 1 . 21 . 1 . 3 19	string box SB 1 , 21 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	47,64	52,404	104,81	17,44	20	EPR	6	In contact	35	OK	0,78%			0,054
string 1 . 21 . 1 . 3 20	string box SB 1 , 21 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	47,64	52,404	104,81	17,44	20	EPR	6	In contact	35	OK	0,78%			0,054
string box SB 1 , 21 . 1 . 3	conversion unit CU 21 ,	ARG70R	ALUMINIUM	2x 2 x 240	192,47	211,717	846,87	348,8	20	EPR	5	25	370,048	OK	1,07%			1,609862
														MAX. VOLTAGE DROP	1,85%	2%	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 1 . 21 . 2 . 1 . 1	string box SB 1 , 21 . 2 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	10,85	11,935	23,87	17,44	20	EPR	6	In contact	35	OK	0,18%			0,012
string 1 . 21 . 2 . 1 2	string box SB 1 , 21 . 2 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 10	56,77	62,447	124,89	17,44	20	EPR	6	In contact	47,5	OK	0,54%			0,037
string 1 . 21 . 2 . 1 3	string box SB 1 , 21 . 2 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 10	56,77	62,447	124,89	17,44	20	EPR	6	In contact	47,5	OK	0,54%			0,037
string 1 . 21 . 2 . 1 4	string box SB 1 , 21 . 2 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 16	100,02	110,022	220,04	17,44	20	EPR	6	In contact	65	OK	0,60%			0,041
string 1 . 21 . 2 . 1 5	string box SB 1 , 21 . 2 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 16	100,02	110,022	220,04	17,44	20	EPR	6	In contact	65	OK	0,60%			0,041
string 1 . 21 . 2 . 1 6	string box SB 1 , 21 . 2 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	43,59	47,949	95,898	17,44	20	EPR	6	In contact	35	OK	0,72%			0,049

string	1	21	2	1	7	string box	SB	1	21	2	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	43,59	47,949	95,898	17,44	20	EPR	6	In contact	35	OK	0,72%			0,049
string	1	21	2	1	8	string box	SB	1	21	2	1	H1Z2Z2	TINNED COPPER	2x	1	x	10	86,85	95,535	191,07	17,44	20	EPR	6	In contact	47,5	OK	0,82%			0,057
string	1	21	2	1	9	string box	SB	1	21	2	1	H1Z2Z2	TINNED COPPER	2x	1	x	10	86,85	95,535	191,07	17,44	20	EPR	6	In contact	47,5	OK	0,82%			0,057
string	1	21	2	1	10	string box	SB	1	21	2	1	H1Z2Z2	TINNED COPPER	2x	1	x	16	130,1	143,11	286,22	17,44	20	EPR	6	In contact	65	OK	0,78%			0,054
string	1	21	2	1	11	string box	SB	1	21	2	1	H1Z2Z2	TINNED COPPER	2x	1	x	16	130,1	143,11	286,22	17,44	20	EPR	6	In contact	65	OK	0,78%			0,054
string	1	21	2	1	12	string box	SB	1	21	2	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	50,03	55,033	110,07	17,44	20	EPR	6	In contact	35	OK	0,82%			0,057
string	1	21	2	1	13	string box	SB	1	21	2	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	50,03	55,033	110,07	17,44	20	EPR	6	In contact	35	OK	0,82%			0,057
string	1	21	2	1	14	string box	SB	1	21	2	1	H1Z2Z2	TINNED COPPER	2x	1	x	10	93,29	102,619	205,24	17,44	20	EPR	6	In contact	47,5	OK	0,88%			0,061
string	1	21	2	1	15	string box	SB	1	21	2	1	H1Z2Z2	TINNED COPPER	2x	1	x	10	93,29	102,619	205,24	17,44	20	EPR	6	In contact	47,5	OK	0,88%			0,061
string	1	21	2	1	16	string box	SB	1	21	2	1	H1Z2Z2	TINNED COPPER	2x	1	x	16	136,55	150,205	300,41	17,44	20	EPR	6	In contact	65	OK	0,82%			0,057
string	1	21	2	1	17	string box	SB	1	21	2	1	H1Z2Z2	TINNED COPPER	2x	1	x	16	136,55	150,205	300,41	17,44	20	EPR	6	In contact	65	OK	0,82%			0,057
string	1	21	2	1	18	string box	SB	1	21	2	1	H1Z2Z2	TINNED COPPER	2x	1	x	10	56,48	62,128	124,26	17,44	20	EPR	6	In contact	47,5	OK	0,53%			0,037
string	1	21	2	1	19	string box	SB	1	21	2	1	H1Z2Z2	TINNED COPPER	2x	1	x	10	56,48	62,128	124,26	17,44	20	EPR	6	In contact	47,5	OK	0,53%			0,037
string	1	21	2	1	20	string box	SB	1	21	2	1	H1Z2Z2	TINNED COPPER	2x	1	x	10	73,45	80,795	161,59	17,44	20	EPR	6	In contact	47,5	OK	0,70%			0,048
string box	SB	1	21	2	1	conversion unit	CU		21			ARG70R	ALUMINIUM	2x	1	x	240	99,23	109,153	218,31	348,8	20	EPR	2	25	475,776	OK	1,10%			1,659964
																												MAX. VOLTAGE DROP		OK	

From						To						Cable code	Type of cable	Formation				Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string	1	21	2	2	1	string box	SB	1	21	2	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	41	45,1	90,2	17,44	20	EPR	6	In contact	35	OK	0,67%			0,047
string	1	21	2	2	2	string box	SB	1	21	2	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	41	45,1	90,2	17,44	20	EPR	6	In contact	35	OK	0,67%			0,047
string	1	21	2	2	3	string box	SB	1	21	2	2	H1Z2Z2	TINNED COPPER	2x	1	x	10	84,25	92,675	185,35	17,44	20	EPR	6	In contact	47,5	OK	0,80%			0,055
string	1	21	2	2	4	string box	SB	1	21	2	2	H1Z2Z2	TINNED COPPER	2x	1	x	10	84,25	92,675	185,35	17,44	20	EPR	6	In contact	47,5	OK	0,80%			0,055
string	1	21	2	2	5	string box	SB	1	21	2	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	27,44	30,184	60,368	17,44	20	EPR	6	In contact	35	OK	0,45%			0,031
string	1	21	2	2	6	string box	SB	1	21	2	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	27,44	30,184	60,368	17,44	20	EPR	6	In contact	35	OK	0,45%			0,031
string	1	21	2	2	7	string box	SB	1	21	2	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	70,7	77,77	155,54	17,44	20	EPR	6	In contact	35	OK	1,16%			0,080
string	1	21	2	2	8	string box	SB	1	21	2	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	70,7	77,77	155,54	17,44	20	EPR	6	In contact	35	OK	1,16%			0,080
string	1	21	2	2	9	string box	SB	1	21	2	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	13,89	15,279	30,558	17,44	20	EPR	6	In contact	35	OK	0,23%			0,016
string	1	21	2	2	10	string box	SB	1	21	2	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	13,89	15,279	30,558	17,44	20	EPR	6	In contact	35	OK	0,23%			0,016
string	1	21	2	2	11	string box	SB	1	21	2	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	57,14	62,854	125,71	17,44	20	EPR	6	In contact	35	OK	0,94%			0,065
string	1	21	2	2	12	string box	SB	1	21	2	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	57,14	62,854	125,71	17,44	20	EPR	6	In contact	35	OK	0,94%			0,065
string	1	21	2	2	13	string box	SB	1	21	2	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	10,85	11,935	23,87	17,44	20	EPR	6	In contact	35	OK	0,18%			0,012
string	1	21	2	2	14	string box	SB	1	21	2	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	43,59	47,949	95,898	17,44	20	EPR	6	In contact	35	OK	0,72%			0,049
string	1	21	2	2	15	string box	SB	1	21	2	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	43,59	47,949	95,898	17,44	20	EPR	6	In contact	35	OK	0,72%			0,049
string	1	21	2	2	16	string box	SB	1	21	2	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	49,95	54,945	109,89	17,44	20	EPR	6	In contact	35	OK	0,82%			0,057
string	1	21	2	2	17	string box	SB	1	21	2	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	49,95	54,945	109,89	17,44	20	EPR	6	In contact	35	OK	0,82%			0,057
string	1	21	2	2	18	string box	SB	1	21	2	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	56,18	61,798	123,6	17,44	20	EPR	6	In contact	35	OK	0,92%			0,064
string	1	21	2	2	19	string box	SB	1	21	2	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	56,18	61,798	123,6	17,44	20	EPR	6	In contact	35	OK	0,92%			0,064
string	1	21	2	2	20	string box	SB	1	21	2	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	72,84	80,124	160,25	17,44	20	EPR	6	In contact	35	OK	1,20%			0,083
string box	SB	1	21	2	2	conversion unit	CU		21			ARG70R	ALUMINIUM	2x	1	x	240	15,75	17,325	34,65	348,8	20	EPR	2	25	475,776	OK	0,17%			0,263473
																												MAX. VOLTAGE DROP		OK	

From						To						Cable code	Type of cable	Formation				Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string	1	22	1	1	1	string box	SB	1	22	1	1	H1Z2Z2	TINNED COPPER	2x	1	x	16	102,63	112,893	225,79	17,44	20	EPR	6	In contact	65	OK	0,62%			0,043
string	1	22	1	1	2	string box	SB	1	22	1	2	H1Z2Z2	TINNED COPPER	2x	1	x	16	84,93	93,423	186,85	17,44	20	EPR	6	In contact	65	OK	0,51%			0,035
string	1	22	1	1	3	string box	SB	1	22	1	2	H1Z2Z2	TINNED COPPER	2x	1	x	16	84,93	93,423	186,85	17,44	20	EPR	6	In contact	65	OK	0,51%			0,035
string	1	22	1	1	4	string box	SB	1	22	1	2	H1Z2Z2	TINNED COPPER	2x	1	x	10	78,44	86,284	172,57	17,44	20	EPR	6	In contact	47,5	OK	0,74%			0,051
string	1	22	1	1	5	string box	SB	1	22	1	2	H1Z2Z2	TINNED COPPER	2x	1	x	10	78,44	86,284	172,57	17,44	20	EPR	6	In contact	47,5	OK	0,74%			0,051
string	1	22	1	1	6	string box	SB	1	22	1	2	H1Z2Z2	TINNED COPPER	2x	1	x	10	71,52	78,672	157,34	17,44	20	EPR	6	In contact	47,5	OK	0,68%			0,047
string	1	22	1	1	7	string box	SB	1	22	1	2	H1Z2Z2	TINNED COPPER	2x	1	x	10	71,52	78,672	157,34	17,44	20	EPR	6	In contact	47,5	OK	0,68%			0,047

string	1 . 22 . 1 . 1 . 8	string box	SB 1 , 22 . 1 . 2	H1Z2Z2	TINNED COPPER	2x	1	x	6	38,79	42,669	85,338	17,44	20	EPR	6	In contact	35	OK	0,64%			0,044
string	1 . 22 . 1 . 1 . 9	string box	SB 1 , 22 . 1 . 2	H1Z2Z2	TINNED COPPER	2x	1	x	10	64,63	71,093	142,19	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string	1 . 22 . 1 . 1 . 10	string box	SB 1 , 22 . 1 . 2	H1Z2Z2	TINNED COPPER	2x	1	x	10	64,63	71,093	142,19	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string	1 . 22 . 1 . 1 . 11	string box	SB 1 , 22 . 1 . 2	H1Z2Z2	TINNED COPPER	2x	1	x	6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string	1 . 22 . 1 . 1 . 12	string box	SB 1 , 22 . 1 . 2	H1Z2Z2	TINNED COPPER	2x	1	x	6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string	1 . 22 . 1 . 1 . 13	string box	SB 1 , 22 . 1 . 2	H1Z2Z2	TINNED COPPER	2x	1	x	10	78,21	86,031	172,06	17,44	20	EPR	6	In contact	47,5	OK	0,74%			0,051
string	1 . 22 . 1 . 1 . 14	string box	SB 1 , 22 . 1 . 2	H1Z2Z2	TINNED COPPER	2x	1	x	10	78,21	86,031	172,06	17,44	20	EPR	6	In contact	47,5	OK	0,74%			0,051
string	1 . 22 . 1 . 1 . 15	string box	SB 1 , 22 . 1 . 2	H1Z2Z2	TINNED COPPER	2x	1	x	6	34,95	38,445	76,89	17,44	20	EPR	6	In contact	35	OK	0,58%			0,040
string	1 . 22 . 1 . 1 . 16	string box	SB 1 , 22 . 1 . 2	H1Z2Z2	TINNED COPPER	2x	1	x	6	34,95	38,445	76,89	17,44	20	EPR	6	In contact	35	OK	0,58%			0,040
string box	SB 1 , 22 . 1 . 1	conversion unit	CU 22 ,	ARG70R	ALUMINIUM	2x	2	x	185	208,79	229,669	918,68	279,04	20	EPR	6	25	313,6	OK	1,22%			1,466389
																				MAX. VOLTAGE DROP	**1,96%**	**2%**	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviro ment Temp. [°C]	Insulat ing	Numb er of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 1 . 22 . 1 . 2 . 1	string box SB 1 , 22 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 10	71,08	78,188	156,38	17,44	20	EPR	6	In contact	47,5	OK	0,67%			0,046
string 1 . 22 . 1 . 2 2	string box SB 1 , 22 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 10	71,08	78,188	156,38	17,44	20	EPR	6	In contact	47,5	OK	0,67%			0,046
string 1 . 22 . 1 . 2 3	string box SB 1 , 22 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	27,82	30,602	61,204	17,44	20	EPR	6	In contact	35	OK	0,46%			0,032
string 1 . 22 . 1 . 2 4	string box SB 1 , 22 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	27,82	30,602	61,204	17,44	20	EPR	6	In contact	35	OK	0,46%			0,032
string 1 . 22 . 1 . 2 5	string box SB 1 , 22 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	37,08	40,788	81,576	17,44	20	EPR	6	In contact	35	OK	0,61%			0,042
string 1 . 22 . 1 . 2 6	string box SB 1 , 22 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	34,05	37,455	74,91	17,44	20	EPR	6	In contact	35	OK	0,56%			0,039
string 1 . 22 . 1 . 2 7	string box SB 1 , 22 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	34,05	37,455	74,91	17,44	20	EPR	6	In contact	35	OK	0,56%			0,039
string 1 . 22 . 1 . 2 8	string box SB 1 , 22 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 10	64,63	71,093	142,19	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string 1 . 22 . 1 . 2 9	string box SB 1 , 22 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 10	64,63	71,093	142,19	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string 1 . 22 . 1 . 2 10	string box SB 1 , 22 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 1 . 22 . 1 . 2 11	string box SB 1 , 22 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 1 . 22 . 1 . 2 12	string box SB 1 , 22 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	22	24,2	48,4	17,44	20	EPR	6	In contact	35	OK	0,36%			0,025
string 1 . 22 . 1 . 2 13	string box SB 1 , 22 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	22	24,2	48,4	17,44	20	EPR	6	In contact	35	OK	0,36%			0,025
string 1 . 22 . 1 . 2 14	string box SB 1 , 22 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 10	78,19	86,009	172,02	17,44	20	EPR	6	In contact	47,5	OK	0,74%			0,051
string 1 . 22 . 1 . 2 15	string box SB 1 , 22 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 10	78,19	86,009	172,02	17,44	20	EPR	6	In contact	47,5	OK	0,74%			0,051
string 1 . 22 . 1 . 2 16	string box SB 1 , 22 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	34,93	38,423	76,846	17,44	20	EPR	6	In contact	35	OK	0,57%			0,040
string 1 . 22 . 1 . 2 17	string box SB 1 , 22 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	34,93	38,423	76,846	17,44	20	EPR	6	In contact	35	OK	0,57%			0,040
string 1 . 22 . 1 . 2 18	string box SB 1 , 22 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	27,08	29,788	59,576	17,44	20	EPR	6	In contact	35	OK	0,45%			0,031
string 1 . 22 . 1 . 2 19	string box SB 1 , 22 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	27,08	29,788	59,576	17,44	20	EPR	6	In contact	35	OK	0,45%			0,031
string 1 . 22 . 1 . 2 20	string box SB 1 , 22 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 10	61,17	67,287	134,57	17,44	20	EPR	6	In contact	47,5	OK	0,58%			0,040
string box SB 1 , 21 . 2 . 2	conversion unit CU 22 ,	ARG70R	ALUMINIUM	2x 2 x 240	187,79	206,569	826,28	348,8	20	EPR	6	25	370,048	OK	1,04%			1,570718
														MAX. VOLTAGE DROP	**1,78%**	**2%**	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviro ment Temp. [°C]	Insulat ing	Numb er of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 1 . 22 . 1 . 3 . 1	string box SB 1 , 22 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 10	77,22	84,942	169,88	17,44	20	EPR	6	In contact	47,5	OK	0,73%			0,050
string 1 . 22 . 1 . 3 2	string box SB 1 , 22 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 10	77,22	84,942	169,88	17,44	20	EPR	6	In contact	47,5	OK	0,73%			0,050
string 1 . 22 . 1 . 3 3	string box SB 1 , 22 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	33,96	37,356	74,712	17,44	20	EPR	6	In contact	35	OK	0,56%			0,039
string 1 . 22 . 1 . 3 4	string box SB 1 , 22 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	33,96	37,356	74,712	17,44	20	EPR	6	In contact	35	OK	0,56%			0,039
string 1 . 22 . 1 . 3 5	string box SB 1 , 22 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 10	70,88	77,968	155,94	17,44	20	EPR	6	In contact	47,5	OK	0,67%			0,046
string 1 . 22 . 1 . 3 6	string box SB 1 , 22 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 10	70,88	77,968	155,94	17,44	20	EPR	6	In contact	47,5	OK	0,67%			0,046
string 1 . 22 . 1 . 3 7	string box SB 1 , 22 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	27,57	30,327	60,654	17,44	20	EPR	6	In contact	35	OK	0,45%			0,031
string 1 . 22 . 1 . 3 8	string box SB 1 , 22 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	27,57	30,327	60,654	17,44	20	EPR	6	In contact	35	OK	0,45%			0,031
string 1 . 22 . 1 . 3 9	string box SB 1 , 22 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 10	64,63	71,093	142,19	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string 1 . 22 . 1 . 3 10	string box SB 1 , 22 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 10	64,63	71,093	142,19	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string 1 . 22 . 1 . 3 11	string box SB 1 , 22 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 1 . 22 . 1 . 3 12	string box SB 1 , 22 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024

string	1	22	1	3	13	string box	SB	1	22	1	3	H1Z2Z2	TINNED COPPER	2x	1	x	10	78,34	86,174	172,35	17,44	20	EPR	6	In contact	47,5	OK	0,74%			0,051
string	1	22	1	3	14	string box	SB	1	22	1	3	H1Z2Z2	TINNED COPPER	2x	1	x	10	78,34	86,174	172,35	17,44	20	EPR	6	In contact	47,5	OK	0,74%			0,051
string	1	22	1	3	15	string box	SB	1	22	1	3	H1Z2Z2	TINNED COPPER	2x	1	x	6	35,09	38,599	77,198	17,44	20	EPR	6	In contact	35	OK	0,58%			0,040
string	1	22	1	3	16	string box	SB	1	22	1	3	H1Z2Z2	TINNED COPPER	2x	1	x	6	35,09	38,599	77,198	17,44	20	EPR	6	In contact	35	OK	0,58%			0,040
string	1	22	1	3	17	string box	SB	1	22	1	3	H1Z2Z2	TINNED COPPER	2x	1	x	10	92,18	101,398	202,8	17,44	20	EPR	6	In contact	47,5	OK	0,87%			0,060
string	1	22	1	3	18	string box	SB	1	22	1	3	H1Z2Z2	TINNED COPPER	2x	1	x	10	92,18	101,398	202,8	17,44	20	EPR	6	In contact	47,5	OK	0,87%			0,060
string	1	22	1	3	19	string box	SB	1	22	1	3	H1Z2Z2	TINNED COPPER	2x	1	x	6	48,87	53,757	107,51	17,44	20	EPR	6	In contact	35	OK	0,80%			0,055
string	1	22	1	3	20	string box	SB	1	22	1	3	H1Z2Z2	TINNED COPPER	2x	1	x	6	48,87	53,757	107,51	17,44	20	EPR	6	In contact	35	OK	0,80%			0,055
string box	SB	1	22	1	3	conversion unit	CU		22			ARG70R	ALUMINIUM	2x	1	x	240	89,16	98,076	196,15	348,8	20	EPR	6	25	370,048	OK	0,99%			1,491508
																										MAX. VOLTAGE DROP		1,86%	2%	OK	

From						To						Cable code	Type of cable	Formation				Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviro ment Temp. [°C]	Insulat ing	Numb er of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string	1	22	2	1	1	string box	SB	1	22	2	1	H1Z2Z2	TINNED COPPER	2x	1	x	10	71,08	78,188	156,38	17,44	20	EPR	6	In contact	47,5	OK	0,67%			0,046
string	1	22	2	1	2	string box	SB	1	22	2	1	H1Z2Z2	TINNED COPPER	2x	1	x	10	71,08	78,188	156,38	17,44	20	EPR	6	In contact	47,5	OK	0,67%			0,046
string	1	22	2	1	3	string box	SB	1	22	2	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	27,77	30,547	61,094	17,44	20	EPR	6	In contact	35	OK	0,46%			0,031
string	1	22	2	1	4	string box	SB	1	22	2	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	27,77	30,547	61,094	17,44	20	EPR	6	In contact	35	OK	0,46%			0,031
string	1	22	2	1	5	string box	SB	1	22	2	1	H1Z2Z2	TINNED COPPER	2x	1	x	10	64,63	71,093	142,19	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string	1	22	2	1	6	string box	SB	1	22	2	1	H1Z2Z2	TINNED COPPER	2x	1	x	10	64,63	71,093	142,19	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string	1	22	2	1	7	string box	SB	1	22	2	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string	1	22	2	1	8	string box	SB	1	22	2	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string	1	22	2	1	9	string box	SB	1	22	2	1	H1Z2Z2	TINNED COPPER	2x	1	x	10	78,37	86,207	172,41	17,44	20	EPR	6	In contact	47,5	OK	0,74%			0,051
string	1	22	2	1	10	string box	SB	1	22	2	1	H1Z2Z2	TINNED COPPER	2x	1	x	10	78,37	86,207	172,41	17,44	20	EPR	6	In contact	47,5	OK	0,74%			0,051
string	1	22	2	1	11	string box	SB	1	22	2	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	35,11	38,621	77,242	17,44	20	EPR	6	In contact	35	OK	0,58%			0,040
string	1	22	2	1	12	string box	SB	1	22	2	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	35,11	38,621	77,242	17,44	20	EPR	6	In contact	35	OK	0,58%			0,040
string	1	22	2	1	13	string box	SB	1	22	2	1	H1Z2Z2	TINNED COPPER	2x	1	x	16	92,15	101,365	202,73	17,44	20	EPR	6	In contact	65	OK	0,55%			0,038
string	1	22	2	1	14	string box	SB	1	22	2	1	H1Z2Z2	TINNED COPPER	2x	1	x	16	92,15	101,365	202,73	17,44	20	EPR	6	In contact	65	OK	0,55%			0,038
string	1	22	2	1	15	string box	SB	1	22	2	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	48,96	53,856	107,71	17,44	20	EPR	6	In contact	35	OK	0,81%			0,056
string	1	22	2	1	16	string box	SB	1	22	2	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	48,96	53,856	107,71	17,44	20	EPR	6	In contact	35	OK	0,81%			0,056
string box	SB	1	22	2	1	conversion unit	CU		22			ARG70R	ALUMINIUM	2x	1	x	300	155,1	170,61	341,22	279,04	20	EPR	6	25	406,784	OK	1,10%			1,328426
																										MAX. VOLTAGE DROP		1,91%	2%	OK	

From						To						Cable code	Type of cable	Formation				Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviro ment Temp. [°C]	Insulat ing	Numb er of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string	1	22	2	2	1	string box	SB	1	22	2	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	70,88	77,968	155,94	17,44	20	EPR	6	In contact	35	OK	1,17%			0,080
string	1	22	2	2	2	string box	SB	1	22	2	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	70,88	77,968	155,94	17,44	20	EPR	6	In contact	35	OK	1,17%			0,080
string	1	22	2	2	3	string box	SB	1	22	2	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	27,62	30,382	60,764	17,44	20	EPR	6	In contact	35	OK	0,45%			0,031
string	1	22	2	2	4	string box	SB	1	22	2	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	27,62	30,382	60,764	17,44	20	EPR	6	In contact	35	OK	0,45%			0,031
string	1	22	2	2	5	string box	SB	1	22	2	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	64,63	71,093	142,19	17,44	20	EPR	6	In contact	35	OK	1,06%			0,073
string	1	22	2	2	6	string box	SB	1	22	2	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	64,63	71,093	142,19	17,44	20	EPR	6	In contact	35	OK	1,06%			0,073
string	1	22	2	2	7	string box	SB	1	22	2	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string	1	22	2	2	8	string box	SB	1	22	2	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string	1	22	2	2	9	string box	SB	1	22	2	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	62,45	68,695	137,39	17,44	20	EPR	6	In contact	35	OK	1,03%			0,071
string	1	22	2	2	10	string box	SB	1	22	2	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	62,45	68,695	137,39	17,44	20	EPR	6	In contact	35	OK	1,03%			0,071
string	1	22	2	2	11	string box	SB	1	22	2	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	19,13	21,043	42,086	17,44	20	EPR	6	In contact	35	OK	0,31%			0,022
string	1	22	2	2	12	string box	SB	1	22	2	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	19,13	21,043	42,086	17,44	20	EPR	6	In contact	35	OK	0,31%			0,022
string	1	22	2	2	13	string box	SB	1	22	2	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	58,65	64,515	129,03	17,44	20	EPR	6	In contact	35	OK	0,97%			0,067
string	1	22	2	2	14	string box	SB	1	22	2	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	58,65	64,515	129,03	17,44	20	EPR	6	In contact	35	OK	0,97%			0,067
string	1	22	2	2	15	string box	SB	1	22	2	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	54,78	60,258	120,52	17,44	20	EPR	6	In contact	35	OK	0,90%			0,062
string	1	22	2	2	16	string box	SB	1	22	2	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	54,78	60,258	120,52	17,44	20	EPR	6	In contact	35	OK	0,90%			0,062
string box	SB	1	22	2	2	conversion unit	CU		22			ARG70R	ALUMINIUM	2x	1	x	185	45,54	50,094	100,19	279,04	20	EPR	6	25	313,6	OK	0,53%			0,63968

MAX. VOLTAGE DROP **1,70%** **2%** OK

From	**To**	**Cable code**	**Type of cable**	**Formation**	**Lenght (1 polarity) [m]**	**Lenght +10% (1 polarity) [m]**	**Total cables lenght [m]**	**Ib (A)**	**Environment Temp. [°C]**	**Insulating**	**Number of circuit**	**Distance**	**Iz' [A]**	**Current test**	**Voltage drop**	**Voltage drop admited**	**Final test**	**Losses [kW]**
string 1 . 22 . 2 . 3 . 1	string box SB 1 , 22 . 2 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	49,27	54,197	108,39	17,44	20	EPR	6	In contact	35	OK	0,81%			0,056
string 1 . 22 . 2 . 3 2	string box SB 1 , 22 . 2 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	49,27	54,197	108,39	17,44	20	EPR	6	In contact	35	OK	0,81%			0,056
string 1 . 22 . 2 . 3 3	string box SB 1 , 22 . 2 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 10	72,73	80,003	160,01	17,44	20	EPR	6	In contact	47,5	OK	0,69%			0,047
string 1 . 22 . 2 . 3 4	string box SB 1 , 22 . 2 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	40,74	44,814	89,628	17,44	20	EPR	6	In contact	35	OK	0,67%			0,046
string 1 . 22 . 2 . 3 5	string box SB 1 , 22 . 2 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	40,74	44,814	89,628	17,44	20	EPR	6	In contact	35	OK	0,67%			0,046
string 1 . 22 . 2 . 3 6	string box SB 1 , 22 . 2 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	48,06	52,866	105,73	17,44	20	EPR	6	In contact	35	OK	0,79%			0,055
string 1 . 22 . 2 . 3 7	string box SB 1 , 22 . 2 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	48,06	52,866	105,73	17,44	20	EPR	6	In contact	35	OK	0,79%			0,055
string 1 . 22 . 2 . 3 8	string box SB 1 , 22 . 2 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	33,95	37,345	74,69	17,44	20	EPR	6	In contact	35	OK	0,56%			0,039
string 1 . 22 . 2 . 3 9	string box SB 1 , 22 . 2 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	24,18	26,598	53,196	17,44	20	EPR	6	In contact	35	OK	0,40%			0,027
string 1 . 22 . 2 . 3 10	string box SB 1 , 22 . 2 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	24,18	26,598	53,196	17,44	20	EPR	6	In contact	35	OK	0,40%			0,027
string 1 . 22 . 2 . 3 11	string box SB 1 , 22 . 2 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	43,59	47,949	95,898	17,44	20	EPR	6	In contact	35	OK	0,72%			0,049
string 1 . 22 . 2 . 3 12	string box SB 1 , 22 . 2 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	43,59	47,949	95,898	17,44	20	EPR	6	In contact	35	OK	0,72%			0,049
string 1 . 22 . 2 . 3 13	string box SB 1 , 22 . 2 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	10,85	11,935	23,87	17,44	20	EPR	6	In contact	35	OK	0,18%			0,012
string 1 . 22 . 2 . 3 14	string box SB 1 , 22 . 2 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	39,71	43,681	87,362	17,44	20	EPR	6	In contact	35	OK	0,65%			0,045
string 1 . 22 . 2 . 3 15	string box SB 1 , 22 . 2 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	39,71	43,681	87,362	17,44	20	EPR	6	In contact	35	OK	0,65%			0,045
string 1 . 22 . 2 . 3 16	string box SB 1 , 22 . 2 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	22,29	24,519	49,038	17,44	20	EPR	6	In contact	35	OK	0,37%			0,025
string 1 . 22 . 2 . 3 17	string box SB 1 , 22 . 2 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	35,84	39,424	78,848	17,44	20	EPR	6	In contact	35	OK	0,59%			0,041
string 1 . 22 . 2 . 3 18	string box SB 1 , 22 . 2 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	35,84	39,424	78,848	17,44	20	EPR	6	In contact	35	OK	0,59%			0,041
string 1 . 22 . 2 . 3 19	string box SB 1 , 22 . 2 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	42,48	46,728	93,456	17,44	20	EPR	6	In contact	35	OK	0,70%			0,048
string 1 . 22 . 2 . 3 20	string box SB 1 , 22 . 2 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	50,66	55,726	111,45	17,44	20	EPR	6	In contact	35	OK	0,83%			0,057
string box SB 1 , 22 . 2 . 3	conversion unit CU 22 ,	ARG70R	ALUMINIUM	2x 2 x 240	189,04	207,944	831,78	348,8	20	EPR	6	25	370,048	OK	1,05%			1,581173
													MAX. VOLTAGE DROP		**1,88%**	**2%**	OK	

Total Losses (Segment between string boxes and PV strings) [kW]	Producted DC Power [kW]	Percentage of total losses	Losses admitted	Losses Test	Total Losses (Segment between inverter input and string boxes) [kW]	Percentage of total losses	Losses admitted	Losses Test
22,112	9331,5	0,24%	0,60%	OK	28,182	0,30%	0,40%	OK

Module	P [Wp]	Immp [A]	Isc [A]	Vmpp [V]	Voc [V]	Vi [V]	Modules per string
TSM-DE20	605	17,44	18,47	34,4	41,5	1500	32

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 2.11,1.1.1	string box SB 2,11.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	65,88	72,468	144,94	17,44	20	EPR	6	In contact	47,5	OK	0,62%			0,043
string 2.11,1.1 2	string box SB 2,11.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	45,02	49,522	99,044	17,44	20	EPR	6	In contact	35	OK	0,74%			0,051
string 2.11,1.1 3	string box SB 2,11.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	45,02	49,522	99,044	17,44	20	EPR	6	In contact	35	OK	0,74%			0,051
string 2.11,1.1 4	string box SB 2,11.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	32,97	36,267	72,534	17,44	20	EPR	6	In contact	35	OK	0,54%			0,037
string 2.11,1.1 5	string box SB 2,11.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	32,97	36,267	72,534	17,44	20	EPR	6	In contact	35	OK	0,54%			0,037
string 2.11,1.1 6	string box SB 2,11.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	13,39	14,729	29,458	17,44	20	EPR	6	In contact	35	OK	0,22%			0,015
string 2.11,1.1 7	string box SB 2,11.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	46,12	50,732	101,46	17,44	20	EPR	6	In contact	35	OK	0,76%			0,052
string 2.11,1.1 8	string box SB 2,11.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	46,12	50,732	101,46	17,44	20	EPR	6	In contact	35	OK	0,76%			0,052
string 2.11,1.1 9	string box SB 2,11.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	89,38	98,318	196,64	17,44	20	EPR	6	In contact	47,5	OK	0,85%			0,058
string 2.11,1.1 10	string box SB 2,11.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	89,38	98,318	196,64	17,44	20	EPR	6	In contact	47,5	OK	0,85%			0,058
string 2.11,1.1 11	string box SB 2,11.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 2.11,1.1 12	string box SB 2,11.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 2.11,1.1 13	string box SB 2,11.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	64,63	71,093	142,19	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string 2.11,1.1 14	string box SB 2,11.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	64,63	71,093	142,19	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string 2.11,1.1 15	string box SB 2,11.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 16	107,89	118,679	237,36	17,44	20	EPR	6	In contact	65	OK	0,65%			0,045
string 2.11,1.1 16	string box SB 2,11.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 16	107,89	118,679	237,36	17,44	20	EPR	6	In contact	65	OK	0,65%			0,045
string 2.11,1.1 17	string box SB 2,11.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 16	103,12	113,432	226,86	17,44	20	EPR	6	In contact	65	OK	0,62%			0,043
string 2.11,1.1 18	string box SB 2,11.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 16	103,12	113,432	226,86	17,44	20	EPR	6	In contact	65	OK	0,62%			0,043
string box SB 2,11.1.1	conversion unit CU 11	ARG70R	ALUMINIUM	2x 1 x 185	24,87	27,357	54,714	313,92	20	EPR	1	In contact	448	OK	0,36%			0,442
														MAX. VOLTAGE DROP	1,20%	2%	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 2.12,1.1.1	string box SB 2,12.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	46,16	50,776	101,55	17,44	20	EPR	6	In contact	35	OK	0,76%			0,052
string 2.12,1.1 2	string box SB 2,12.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	46,16	50,776	101,55	17,44	20	EPR	6	In contact	35	OK	0,76%			0,052
string 2.12,1.1 3	string box SB 2,12.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 2.12,1.1 4	string box SB 2,12.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 2.12,1.1 5	string box SB 2,12.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	64,63	71,093	142,19	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string 2.12,1.1 6	string box SB 2,12.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	64,63	71,093	142,19	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string 2.12,1.1 7	string box SB 2,12.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	60,33	66,363	132,73	17,44	20	EPR	6	In contact	47,5	OK	0,57%			0,039
string 2.12,1.1 8	string box SB 2,12.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	60,33	66,363	132,73	17,44	20	EPR	6	In contact	47,5	OK	0,57%			0,039
string 2.12,1.1 9	string box SB 2,12.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 16	103,59	113,949	227,9	17,44	20	EPR	6	In contact	65	OK	0,62%			0,043
string 2.12,1.1 10	string box SB 2,12.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 16	103,59	113,949	227,9	17,44	20	EPR	6	In contact	65	OK	0,62%			0,043
string 2.12,1.1 11	string box SB 2,12.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	56,21	61,831	123,66	17,44	20	EPR	6	In contact	47,5	OK	0,53%			0,037
string 2.12,1.1 12	string box SB 2,12.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	56,21	61,831	123,66	17,44	20	EPR	6	In contact	47,5	OK	0,53%			0,037
string box SB 2,12.1.1	conversion unit CU 12	ARG70R	ALUMINIUM	2x 1 x 240	174,42	191,862	383,72	209,28	20	EPR	6	25	370,048	OK	1,16%			1,050399
														MAX. VOLTAGE DROP	1,92%	2%	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 2.12.1.2.1	string box SB 2,12.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	46,17	50,787	101,57	17,44	20	EPR	6	In contact	35	OK	0,76%			0,052
string 2.12.1.2.2	string box SB 2,12.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	46,17	50,787	101,57	17,44	20	EPR	6	In contact	35	OK	0,76%			0,052
string 2.12.1.2.3	string box SB 2,12.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	89,42	98,362	196,72	17,44	20	EPR	6	In contact	47,5	OK	0,85%			0,058
string 2.12.1.2.4	string box SB 2,12.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	89,42	98,362	196,72	17,44	20	EPR	6	In contact	47,5	OK	0,85%			0,058
string 2.12.1.2.5	string box SB 2,12.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 2.12.1.2.6	string box SB 2,12.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 2.12.1.2.7	string box SB 2,12.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	64,63	71,093	142,19	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string 2.12.1.2.8	string box SB 2,12.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	64,63	71,093	142,19	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string 2.12.1.2.9	string box SB 2,12.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 16	107,89	118,679	237,36	17,44	20	EPR	6	In contact	65	OK	0,65%			0,045
string 2.12.1.2.10	string box SB 2,12.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 16	107,89	118,679	237,36	17,44	20	EPR	6	In contact	65	OK	0,65%			0,045
string 2.12.1.2.11	string box SB 2,12.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	16,62	18,282	36,564	17,44	20	EPR	6	In contact	35	OK	0,27%			0,019
string 2.12.1.2.12	string box SB 2,12.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	16,62	18,282	36,564	17,44	20	EPR	6	In contact	35	OK	0,27%			0,019
string 2.12.1.2.13	string box SB 2,12.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	59,88	65,868	131,74	17,44	20	EPR	6	In contact	47,5	OK	0,57%			0,039
string 2.12.1.2.14	string box SB 2,12.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	59,88	65,868	131,74	17,44	20	EPR	6	In contact	47,5	OK	0,57%			0,039
string 2.12.1.2.15	string box SB 2,12.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 16	103,14	113,454	226,91	17,44	20	EPR	6	In contact	65	OK	0,62%			0,043
string 2.12.1.2.16	string box SB 2,12.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 16	103,14	113,454	226,91	17,44	20	EPR	6	In contact	65	OK	0,62%			0,043
string 2.12.1.2.17	string box SB 2,12.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,27	34,397	68,794	17,44	20	EPR	6	In contact	35	OK	0,51%			0,035
string 2.12.1.2.18	string box SB 2,12.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,27	34,397	68,794	17,44	20	EPR	6	In contact	35	OK	0,51%			0,035
string 2.12.1.2.19	string box SB 2,12.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	74,53	81,983	163,97	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string 2.12.1.2.20	string box SB 2,12.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	74,53	81,983	163,97	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string box SB 2,12.1.2	conversion unit CU 12,	ARG70R	ALUMINIUM	2x 2 x 240	167,14	183,854	735,42	348,8	20	EPR	6	25	370,048	OK	0,93%			1,397996
														MAX. VOLTAGE DROP	1,78%	2%	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 2.12.1.3.1	string box SB 2,12.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	39,27	43,197	86,394	17,44	20	EPR	6	In contact	35	OK	0,65%			0,045
string 2.12.1.3.2	string box SB 2,12.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	76,17	83,787	167,57	17,44	20	EPR	6	In contact	47,5	OK	0,72%			0,050
string 2.12.1.3.3	string box SB 2,12.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	76,17	83,787	167,57	17,44	20	EPR	6	In contact	47,5	OK	0,72%			0,050
string 2.12.1.3.4	string box SB 2,12.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	45,67	50,237	100,47	17,44	20	EPR	6	In contact	35	OK	0,75%			0,052
string 2.12.1.3.5	string box SB 2,12.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	45,67	50,237	100,47	17,44	20	EPR	6	In contact	35	OK	0,75%			0,052
string 2.12.1.3.6	string box SB 2,12.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	88,95	97,845	195,69	17,44	20	EPR	6	In contact	47,5	OK	0,84%			0,058
string 2.12.1.3.7	string box SB 2,12.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	88,95	97,845	195,69	17,44	20	EPR	6	In contact	47,5	OK	0,84%			0,058
string 2.12.1.3.8	string box SB 2,12.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 2.12.1.3.9	string box SB 2,12.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 2.12.1.3.10	string box SB 2,12.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	64,63	71,093	142,19	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string 2.12.1.3.11	string box SB 2,12.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	64,63	71,093	142,19	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string 2.12.1.3.12	string box SB 2,12.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 16	107,89	118,679	237,36	17,44	20	EPR	6	In contact	65	OK	0,65%			0,045
string 2.12.1.3.13	string box SB 2,12.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 16	107,89	118,679	237,36	17,44	20	EPR	6	In contact	65	OK	0,65%			0,045
string 2.12.1.3.14	string box SB 2,12.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	27,01	29,711	59,422	17,44	20	EPR	6	In contact	35	OK	0,44%			0,031
string 2.12.1.3.15	string box SB 2,12.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	59,75	65,725	131,45	17,44	20	EPR	6	In contact	35	OK	0,98%			0,068
string 2.12.1.3.16	string box SB 2,12.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	59,75	65,725	131,45	17,44	20	EPR	6	In contact	35	OK	0,98%			0,068
string 2.12.1.3.17	string box SB 2,12.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 16	103,01	113,311	226,62	17,44	20	EPR	6	In contact	65	OK	0,62%			0,043
string 2.12.1.3.18	string box SB 2,12.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 16	103,01	113,311	226,62	17,44	20	EPR	6	In contact	65	OK	0,62%			0,043
string box SB 2,12.1.3	conversion unit CU 2,	ARG70R	ALUMINIUM	2x 1 x 240	61,42	67,562	135,12	313,92	20	EPR	6	25	370,048	OK	0,61%			0,832244
														MAX. VOLTAGE DROP	1,60%	2%	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 2.12.2.1.1	string box SB 2,12.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	25,03	27,533	55,066	17,44	20	EPR	6	In contact	35	OK	0,41%			0,028
string 2.12.2.1.2	string box SB 2,12.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	25,03	27,533	55,066	17,44	20	EPR	6	In contact	35	OK	0,41%			0,028
string 2.12.2.1.3	string box SB 2,12.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	10,85	11,935	23,87	17,44	20	EPR	6	In contact	35	OK	0,18%			0,012
string 2.12.2.1.4	string box SB 2,12.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	10,85	11,935	23,87	17,44	20	EPR	6	In contact	35	OK	0,18%			0,012
string 2.12.2.1.5	string box SB 2,12.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	25,5	28,05	56,1	17,44	20	EPR	6	In contact	35	OK	0,42%			0,029
string 2.12.2.1.6	string box SB 2,12.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	25,5	28,05	56,1	17,44	20	EPR	6	In contact	35	OK	0,42%			0,029
string 2.12.2.1.7	string box SB 2,12.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	68,29	75,119	150,24	17,44	20	EPR	6	In contact	47,5	OK	0,65%			0,045
string 2.12.2.1.8	string box SB 2,12.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	68,29	75,119	150,24	17,44	20	EPR	6	In contact	47,5	OK	0,65%			0,045
string 2.12.2.1.9	string box SB 2,12.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	43,59	47,949	95,898	17,44	20	EPR	6	In contact	35	OK	0,72%			0,049
string 2.12.2.1.10	string box SB 2,12.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	43,59	47,949	95,898	17,44	20	EPR	6	In contact	35	OK	0,72%			0,049
string 2.12.2.1.11	string box SB 2,12.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	58,24	64,064	128,13	17,44	20	EPR	6	In contact	35	OK	0,96%			0,066
string 2.12.2.1.12	string box SB 2,12.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	58,24	64,064	128,13	17,44	20	EPR	6	In contact	35	OK	0,96%			0,066
string 2.12.2.1.13	string box SB 2,12.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 16	111,54	122,694	245,39	17,44	20	EPR	6	In contact	65	OK	0,67%			0,046
string 2.12.2.1.14	string box SB 2,12.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 16	111,54	122,694	245,39	17,44	20	EPR	6	In contact	65	OK	0,67%			0,046
string 2.12.2.1.15	string box SB 2,12.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	86,85	95,535	191,07	17,44	20	EPR	6	In contact	47,5	OK	0,82%			0,057
string 2.12.2.1.16	string box SB 2,12.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	86,85	95,535	191,07	17,44	20	EPR	6	In contact	47,5	OK	0,82%			0,057
string box SB 2,12.2.1	conversion unit CU 12,	ARG70R	ALUMINIUM	2x 1 x 150	31,53	34,683	69,366	279,04	20	EPR	6	25	280,448	OK	0,46%			0,55631
														MAX. VOLTAGE DROP	1,42%	2%	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 2.12.2.2.1	string box SB 2,12.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	23,97	26,367	52,734	17,44	20	EPR	6	In contact	35	OK	0,39%			0,027
string 2.12.2.2.2	string box SB 2,12.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	23,97	26,367	52,734	17,44	20	EPR	6	In contact	35	OK	0,39%			0,027
string 2.12.2.2.3	string box SB 2,12.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	10,85	11,935	23,87	17,44	20	EPR	6	In contact	35	OK	0,18%			0,012
string 2.12.2.2.4	string box SB 2,12.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	40,83	44,913	89,826	17,44	20	EPR	6	In contact	35	OK	0,67%			0,046
string 2.12.2.2.5	string box SB 2,12.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	40,83	44,913	89,826	17,44	20	EPR	6	In contact	35	OK	0,67%			0,046
string 2.12.2.2.6	string box SB 2,12.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	36,37	40,007	80,014	17,44	20	EPR	6	In contact	35	OK	0,60%			0,041
string 2.12.2.2.7	string box SB 2,12.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	36,37	40,007	80,014	17,44	20	EPR	6	In contact	35	OK	0,60%			0,041
string 2.12.2.2.8	string box SB 2,12.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	46,27	50,897	101,79	17,44	20	EPR	6	In contact	35	OK	0,76%			0,052
string 2.12.2.2.9	string box SB 2,12.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	67,22	73,942	147,88	17,44	20	EPR	6	In contact	47,5	OK	0,64%			0,044
string 2.12.2.2.10	string box SB 2,12.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	67,22	73,942	147,88	17,44	20	EPR	6	In contact	47,5	OK	0,64%			0,044
string 2.12.2.2.11	string box SB 2,12.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	43,42	47,762	95,524	17,44	20	EPR	6	In contact	35	OK	0,71%			0,049
string 2.12.2.2.12	string box SB 2,12.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	43,42	47,762	95,524	17,44	20	EPR	6	In contact	35	OK	0,71%			0,049
string 2.12.2.2.13	string box SB 2,12.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	84,06	92,466	184,93	17,44	20	EPR	6	In contact	47,5	OK	0,80%			0,055
string 2.12.2.2.14	string box SB 2,12.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	84,06	92,466	184,93	17,44	20	EPR	6	In contact	47,5	OK	0,80%			0,055
string 2.12.2.2.15	string box SB 2,12.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	79,6	87,56	175,12	17,44	20	EPR	6	In contact	47,5	OK	0,75%			0,052
string 2.12.2.2.16	string box SB 2,12.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	79,6	87,56	175,12	17,44	20	EPR	6	In contact	47,5	OK	0,75%			0,052
string 2.12.2.2.17	string box SB 2,12.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 16	110,48	121,528	243,06	17,44	20	EPR	6	In contact	65	OK	0,67%			0,046
string 2.12.2.2.18	string box SB 2,12.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 16	110,48	121,528	243,06	17,44	20	EPR	6	In contact	65	OK	0,67%			0,046
string 2.12.2.2.19	string box SB 2,12.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	86,84	95,524	191,05	17,44	20	EPR	6	In contact	47,5	OK	0,82%			0,057
string 2.12.2.2.20	string box SB 2,12.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	86,84	95,524	191,05	17,44	20	EPR	6	In contact	47,5	OK	0,82%			0,057
string box SB 2,12.2.2	conversion unit CU 12,	ARG70R	ALUMINIUM	2x 1 x 185	14,93	16,423	32,846	348,8	20	EPR	1	In contact	448	OK	0,22%			0,32768
														MAX. VOLTAGE DROP	1,04%	2%	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviro ment Temp. [°C]	Insulat ing	Numb er of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 2.13.1.1.1	string box SB 2,13.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	23,46	25,806	51,612	17,44	20	EPR	6	In contact	35	OK	0,39%			0,027
string 2.13.1.1.2	string box SB 2,13.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	23,46	25,806	51,612	17,44	20	EPR	6	In contact	35	OK	0,39%			0,027
string 2.13.1.1.3	string box SB 2,13.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	10,85	11,935	23,87	17,44	20	EPR	6	In contact	35	OK	0,18%			0,012
string 2.13.1.1.4	string box SB 2,13.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	10,85	11,935	23,87	17,44	20	EPR	6	In contact	35	OK	0,18%			0,012
string 2.13.1.1.5	string box SB 2,13.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	40,42	44,462	88,924	17,44	20	EPR	6	In contact	35	OK	0,67%			0,046
string 2.13.1.1.6	string box SB 2,13.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	40,42	44,462	88,924	17,44	20	EPR	6	In contact	35	OK	0,67%			0,046
string 2.13.1.1.7	string box SB 2,13.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	36,6	40,26	80,52	17,44	20	EPR	6	In contact	35	OK	0,60%			0,042
string 2.13.1.1.8	string box SB 2,13.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	36,6	40,26	80,52	17,44	20	EPR	6	In contact	35	OK	0,60%			0,042
string 2.13.1.1.9	string box SB 2,13.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	43,28	47,608	95,216	17,44	20	EPR	6	In contact	35	OK	0,71%			0,049
string 2.13.1.1.10	string box SB 2,13.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	43,28	47,608	95,216	17,44	20	EPR	6	In contact	35	OK	0,71%			0,049
string 2.13.1.1.11	string box SB 2,13.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	66,96	73,656	147,31	17,44	20	EPR	6	In contact	35	OK	1,10%			0,076
string 2.13.1.1.12	string box SB 2,13.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	66,96	73,656	147,31	17,44	20	EPR	6	In contact	35	OK	1,10%			0,076
string 2.13.1.1.13	string box SB 2,13.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 16	110,21	121,231	242,46	17,44	20	EPR	6	In contact	65	OK	0,66%			0,046
string 2.13.1.1.14	string box SB 2,13.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 16	110,21	121,231	242,46	17,44	20	EPR	6	In contact	65	OK	0,66%			0,046
string 2.13.1.1.15	string box SB 2,13.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	89,12	98,032	196,06	17,44	20	EPR	6	In contact	47,5	OK	0,84%			0,058
string 2.13.1.1.16	string box SB 2,13.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	89,12	98,032	196,06	17,44	20	EPR	6	In contact	47,5	OK	0,84%			0,058
string 2.13.1.1.17	string box SB 2,13.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	66,49	73,139	146,28	17,44	20	EPR	6	In contact	35	OK	1,09%			0,075
string 2.13.1.1.18	string box SB 2,13.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	66,49	73,139	146,28	17,44	20	EPR	6	In contact	35	OK	1,09%			0,075
string 2.13.1.1.19	string box SB 2,13.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	43,59	47,949	95,898	17,44	20	EPR	6	In contact	35	OK	0,72%			0,049
string 2.13.1.1.20	string box SB 2,13.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	43,59	47,949	95,898	17,44	20	EPR	6	In contact	35	OK	0,72%			0,049
string box SB 2,13.1.1	conversion unit CU 13,	ARG70R	ALUMINIUM	2x 1 x 240	17,05	18,755	37,51	348,8	20	EPR	6	25	370,048	OK	0,19%			0,28522
													MAX. VOLTAGE DROP		1,29%	2%	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviro ment Temp. [°C]	Insulat ing	Numb er of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 2.13.1.2.1	string box SB 2,13.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	45,47	50,017	100,03	17,44	20	EPR	6	In contact	35	OK	0,75%			0,052
string 2.13.1.2.2	string box SB 2,13.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	45,47	50,017	100,03	17,44	20	EPR	6	In contact	35	OK	0,75%			0,052
string 2.13.1.2.3	string box SB 2,13.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	22,49	24,739	49,478	17,44	20	EPR	6	In contact	35	OK	0,37%			0,026
string 2.13.1.2.4	string box SB 2,13.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	22,49	24,739	49,478	17,44	20	EPR	6	In contact	35	OK	0,37%			0,026
string 2.13.1.2.5	string box SB 2,13.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	11,61	12,771	25,542	17,44	20	EPR	6	In contact	35	OK	0,19%			0,013
string 2.13.1.2.6	string box SB 2,13.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 2.13.1.2.7	string box SB 2,13.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 2.13.1.2.8	string box SB 2,13.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	16,3	17,93	35,86	17,44	20	EPR	6	In contact	35	OK	0,27%			0,018
string 2.13.1.2.9	string box SB 2,13.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	16,3	17,93	35,86	17,44	20	EPR	6	In contact	35	OK	0,27%			0,018
string 2.13.1.2.10	string box SB 2,13.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	25,64	28,204	56,408	17,44	20	EPR	6	In contact	35	OK	0,42%			0,029
string 2.13.1.2.11	string box SB 2,13.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	88,73	97,603	195,21	17,44	20	EPR	6	In contact	47,5	OK	0,84%			0,058
string 2.13.1.2.12	string box SB 2,13.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	88,73	97,603	195,21	17,44	20	EPR	6	In contact	47,5	OK	0,84%			0,058
string 2.13.1.2.13	string box SB 2,13.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	65,72	72,292	144,58	17,44	20	EPR	6	In contact	35	OK	1,08%			0,075
string 2.13.1.2.14	string box SB 2,13.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	65,72	72,292	144,58	17,44	20	EPR	6	In contact	35	OK	1,08%			0,075
string 2.13.1.2.15	string box SB 2,13.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	44,36	48,796	97,592	17,44	20	EPR	6	In contact	35	OK	0,73%			0,050
string 2.13.1.2.16	string box SB 2,13.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	44,36	48,796	97,592	17,44	20	EPR	6	In contact	35	OK	0,73%			0,050
string 2.13.1.2.17	string box SB 2,13.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	64,58	71,038	142,08	17,44	20	EPR	6	In contact	35	OK	1,06%			0,073
string 2.13.1.2.18	string box SB 2,13.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	64,58	71,038	142,08	17,44	20	EPR	6	In contact	35	OK	1,06%			0,073
string 2.13.1.2.19	string box SB 2,13.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	87,59	96,349	192,7	17,44	20	EPR	6	In contact	47,5	OK	0,83%			0,057
string 2.13.1.2.20	string box SB 2,13.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	87,59	96,349	192,7	17,44	20	EPR	6	In contact	47,5	OK	0,83%			0,057
string box SB 2,13.1.2	conversion unit CU 13,	ARG70R	ALUMINIUM	2x 1 x 240	67,99	74,789	149,58	348,8	20	EPR	6	25	370,048	OK	0,76%			1,137367
													MAX. VOLTAGE DROP		1,84%	2%	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviro ment Temp. [°C]	Insulat ing	Numb er of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 2.13.1.3.1	string box SB 2,13.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	44,41	48,851	97,702	17,44	20	EPR	6	In contact	35	OK	0,73%			0,050
string 2.13.1.3.2	string box SB 2,13.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	44,41	48,851	97,702	17,44	20	EPR	6	In contact	35	OK	0,73%			0,050
string 2.13.1.3.3	string box SB 2,13.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	20,59	22,649	45,298	17,44	20	EPR	6	In contact	35	OK	0,34%			0,023
string 2.13.1.3.4	string box SB 2,13.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	20,59	22,649	45,298	17,44	20	EPR	6	In contact	35	OK	0,34%			0,023
string 2.13.1.3.5	string box SB 2,13.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	23,37	25,707	51,414	17,44	20	EPR	6	In contact	35	OK	0,38%			0,027
string 2.13.1.3.6	string box SB 2,13.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	23,37	25,707	51,414	17,44	20	EPR	6	In contact	35	OK	0,38%			0,027
string 2.13.1.3.7	string box SB 2,13.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	45,83	50,413	100,83	17,44	20	EPR	6	In contact	35	OK	0,75%			0,052
string 2.13.1.3.8	string box SB 2,13.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	45,83	50,413	100,83	17,44	20	EPR	6	In contact	35	OK	0,75%			0,052
string 2.13.1.3.9	string box SB 2,13.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 2.13.1.3.10	string box SB 2,13.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 2.13.1.3.11	string box SB 2,13.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	16,92	18,612	37,224	17,44	20	EPR	6	In contact	35	OK	0,28%			0,019
string 2.13.1.3.12	string box SB 2,13.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	16,92	18,612	37,224	17,44	20	EPR	6	In contact	35	OK	0,28%			0,019
string 2.13.1.3.13	string box SB 2,13.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	64,63	71,093	142,19	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string 2.13.1.3.14	string box SB 2,13.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	64,63	71,093	142,19	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string 2.13.1.3.15	string box SB 2,13.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	60,18	66,198	132,4	17,44	20	EPR	6	In contact	47,5	OK	0,57%			0,039
string 2.13.1.3.16	string box SB 2,13.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	60,18	66,198	132,4	17,44	20	EPR	6	In contact	47,5	OK	0,57%			0,039
string box SB 2,13.1.3	conversion unit CU 13,	ARG70R	ALUMINIUM	2x 2 x 240	249,71	274,681	1098,7	279,04	20	EPR	6	25	370,048	OK	1,11%			1,336723
														MAX. VOLTAGE DROP	1,86%	2%	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviro ment Temp. [°C]	Insulat ing	Numb er of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 2.13.2.1.1	string box SB 2,13.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	63,1	69,41	138,82	17,44	20	EPR	6	In contact	47,5	OK	0,60%			0,041
string 2.13.2.1.2	string box SB 2,13.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	63,1	69,41	138,82	17,44	20	EPR	6	In contact	47,5	OK	0,60%			0,041
string 2.13.2.1.3	string box SB 2,13.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	18,37	20,207	40,414	17,44	20	EPR	6	In contact	35	OK	0,30%			0,021
string 2.13.2.1.4	string box SB 2,13.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	18,37	20,207	40,414	17,44	20	EPR	6	In contact	35	OK	0,30%			0,021
string 2.13.2.1.5	string box SB 2,13.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	66,1	72,71	145,42	17,44	20	EPR	6	In contact	47,5	OK	0,63%			0,043
string 2.13.2.1.6	string box SB 2,13.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	66,1	72,71	145,42	17,44	20	EPR	6	In contact	47,5	OK	0,63%			0,043
string 2.13.2.1.7	string box SB 2,13.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 2.13.2.1.8	string box SB 2,13.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 2.13.2.1.9	string box SB 2,13.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	44,22	48,642	97,284	17,44	20	EPR	6	In contact	35	OK	0,73%			0,050
string 2.13.2.1.10	string box SB 2,13.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	44,22	48,642	97,284	17,44	20	EPR	6	In contact	35	OK	0,73%			0,050
string 2.13.2.1.11	string box SB 2,13.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	67,19	73,909	147,82	17,44	20	EPR	6	In contact	47,5	OK	0,64%			0,044
string 2.13.2.1.12	string box SB 2,13.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	67,19	73,909	147,82	17,44	20	EPR	6	In contact	47,5	OK	0,64%			0,044
string box SB 2,13.1.2	conversion unit CU 13,	ARG70R	ALUMINIUM	2x 1 x 240	168,63	185,493	370,99	209,28	20	EPR	6	25	370,048	OK	1,12%			1,015531
														MAX. VOLTAGE DROP	1,85%	2%	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviro ment Temp. [°C]	Insulat ing	Numb er of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 2.13.2.2.1	string box SB 2,13.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	61,98	68,178	136,36	17,44	20	EPR	6	In contact	47,5	OK	0,59%			0,040
string 2.13.2.2.2	string box SB 2,13.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	61,98	68,178	136,36	17,44	20	EPR	6	In contact	47,5	OK	0,59%			0,040
string 2.13.2.2.3	string box SB 2,13.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	64,63	71,093	142,19	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string 2.13.2.2.4	string box SB 2,13.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	64,63	71,093	142,19	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string 2.13.2.2.5	string box SB 2,13.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	88,32	97,152	194,3	17,44	20	EPR	6	In contact	47,5	OK	0,84%			0,058
string 2.13.2.2.6	string box SB 2,13.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	88,32	97,152	194,3	17,44	20	EPR	6	In contact	47,5	OK	0,84%			0,058
string 2.13.2.2.7	string box SB 2,13.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	33,37	36,707	73,414	17,44	20	EPR	6	In contact	35	OK	0,55%			0,038

string	2 . 13 . 2 . 2	8	string box	SB 2 , 13 . 2 . 2	H1Z2Z2	TINNED COPPER	2x	1	x	6	33,37	36,707	73,414	17,44	20	EPR	6	In contact	35	OK	0,55%			0,038
string	2 . 13 . 2 . 2	9	string box	SB 2 , 13 . 2 . 2	H1Z2Z2	TINNED COPPER	2x	1	x	6	18,73	20,603	41,206	17,44	20	EPR	6	In contact	35	OK	0,31%			0,021
string	2 . 13 . 2 . 2	10	string box	SB 2 , 13 . 2 . 2	H1Z2Z2	TINNED COPPER	2x	1	x	6	18,73	20,603	41,206	17,44	20	EPR	6	In contact	35	OK	0,31%			0,021
string	2 . 13 . 2 . 2	11	string box	SB 2 , 13 . 2 . 2	H1Z2Z2	TINNED COPPER	2x	1	x	6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string	2 . 13 . 2 . 2	12	string box	SB 2 , 13 . 2 . 2	H1Z2Z2	TINNED COPPER	2x	1	x	6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string	2 . 13 . 2 . 2	13	string box	SB 2 , 13 . 2 . 2	H1Z2Z2	TINNED COPPER	2x	1	x	6	45,06	49,566	99,132	17,44	20	EPR	6	In contact	35	OK	0,74%			0,051
string	2 . 13 . 2 . 2	14	string box	SB 2 , 13 . 2 . 2	H1Z2Z2	TINNED COPPER	2x	1	x	6	45,06	49,566	99,132	17,44	20	EPR	6	In contact	35	OK	0,74%			0,051
string box	SB 2 , 13 . 2 . 2		conversion unit	CU 13 ,	ARG70R	ALUMINIUM	2x	2	x	240	250,47	275,517	1102,1	244,16	20	EPR	6	25	370,048	OK	0,97%			1,026544
																					MAX. VOLTAGE DROP	**1,81%**	**2%**	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 2 . 14 . 1 . 1 . 1	string box SB 2 , 14 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 10	80,68	88,748	177,5	17,44	20	EPR	6	In contact	47,5	OK	0,76%			0,053
string 2 . 14 . 1 . 1 2	string box SB 2 , 14 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 10	80,68	88,748	177,5	17,44	20	EPR	6	In contact	47,5	OK	0,76%			0,053
string 2 . 14 . 1 . 1 3	string box SB 2 , 14 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 10	75,34	82,874	165,75	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string 2 . 14 . 1 . 1 4	string box SB 2 , 14 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 10	75,34	82,874	165,75	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string 2 . 14 . 1 . 1 5	string box SB 2 , 14 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 10	69,99	76,989	153,98	17,44	20	EPR	6	In contact	47,5	OK	0,66%			0,046
string 2 . 14 . 1 . 1 6	string box SB 2 , 14 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 10	69,99	76,989	153,98	17,44	20	EPR	6	In contact	47,5	OK	0,66%			0,046
string 2 . 14 . 1 . 1 7	string box SB 2 , 14 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	64,63	71,093	142,19	17,44	20	EPR	6	In contact	35	OK	1,06%			0,073
string 2 . 14 . 1 . 1 8	string box SB 2 , 14 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	64,63	71,093	142,19	17,44	20	EPR	6	In contact	35	OK	1,06%			0,073
string 2 . 14 . 1 . 1 9	string box SB 2 , 14 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 2 . 14 . 1 . 1 10	string box SB 2 , 14 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 2 . 14 . 1 . 1 11	string box SB 2 , 14 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,67	23,837	47,674	17,44	20	EPR	6	In contact	35	OK	0,36%			0,025
string 2 . 14 . 1 . 1 12	string box SB 2 , 14 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	36,01	39,611	79,222	17,44	20	EPR	6	In contact	35	OK	0,59%			0,041
string 2 . 14 . 1 . 1 13	string box SB 2 , 14 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	36,01	39,611	79,222	17,44	20	EPR	6	In contact	35	OK	0,59%			0,041
string 2 . 14 . 1 . 1 14	string box SB 2 , 14 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 10	79,27	87,197	174,39	17,44	20	EPR	6	In contact	47,5	OK	0,75%			0,052
string 2 . 14 . 1 . 1 15	string box SB 2 , 14 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 10	79,27	87,197	174,39	17,44	20	EPR	6	In contact	47,5	OK	0,75%			0,052
string 2 . 14 . 1 . 1 16	string box SB 2 , 14 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	41,27	45,397	90,794	17,44	20	EPR	6	In contact	35	OK	0,68%			0,047
string box SB 2 , 14 . 1 . 1	conversion unit CU 14 ,	ARG70R	ALUMINIUM	2x 1 x 150	22	24,2	48,4	279,04	20	EPR	2	25	360,576	OK	0,32%			0,388164
															MAX. VOLTAGE DROP	**1,39%**	**2%**	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 2 . 14 . 1 . 2 . 1	string box SB 2 , 14 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 16	110,98	122,078	244,16	17,44	20	EPR	6	In contact	65	OK	0,67%			0,046
string 2 . 14 . 1 . 2 2	string box SB 2 , 14 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 16	110,98	122,078	244,16	17,44	20	EPR	6	In contact	65	OK	0,67%			0,046
string 2 . 14 . 1 . 2 3	string box SB 2 , 14 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 10	67,73	74,503	149,01	17,44	20	EPR	6	In contact	47,5	OK	0,64%			0,044
string 2 . 14 . 1 . 2 4	string box SB 2 , 14 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 10	67,73	74,503	149,01	17,44	20	EPR	6	In contact	47,5	OK	0,64%			0,044
string 2 . 14 . 1 . 2 5	string box SB 2 , 14 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 10	86,85	95,535	191,07	17,44	20	EPR	6	In contact	47,5	OK	0,82%			0,057
string 2 . 14 . 1 . 2 6	string box SB 2 , 14 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 10	86,85	95,535	191,07	17,44	20	EPR	6	In contact	47,5	OK	0,82%			0,057
string 2 . 14 . 1 . 2 7	string box SB 2 , 14 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	43,42	47,762	95,524	17,44	20	EPR	6	In contact	35	OK	0,71%			0,049
string 2 . 14 . 1 . 2 8	string box SB 2 , 14 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	43,42	47,762	95,524	17,44	20	EPR	6	In contact	35	OK	0,71%			0,049
string 2 . 14 . 1 . 2 9	string box SB 2 , 14 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	10,85	11,935	23,87	17,44	20	EPR	6	In contact	35	OK	0,18%			0,012
string 2 . 14 . 1 . 2 10	string box SB 2 , 14 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	15,85	17,435	34,87	17,44	20	EPR	6	In contact	35	OK	0,26%			0,018
string 2 . 14 . 1 . 2 11	string box SB 2 , 14 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	39,45	43,395	86,79	17,44	20	EPR	6	In contact	35	OK	0,65%			0,045
string 2 . 14 . 1 . 2 12	string box SB 2 , 14 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	39,45	43,395	86,79	17,44	20	EPR	6	In contact	35	OK	0,65%			0,045
string 2 . 14 . 1 . 2 13	string box SB 2 , 14 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 10	82,71	43,395	86,79	17,44	20	EPR	6	In contact	47,5	OK	0,37%			0,026
string 2 . 14 . 1 . 2 14	string box SB 2 , 14 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 10	82,71	90,981	181,96	17,44	20	EPR	6	In contact	47,5	OK	0,78%			0,054
string 2 . 14 . 1 . 2 15	string box SB 2 , 14 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 10	78,57	90,981	181,96	17,44	20	EPR	6	In contact	47,5	OK	0,78%			0,054
string 2 . 14 . 1 . 2 16	string box SB 2 , 14 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 10	78,57	86,427	172,85	17,44	20	EPR	6	In contact	47,5	OK	0,74%			0,051
string box SB 2 , 14 . 1 . 2	conversion unit CU 14 ,	ARG70R	ALUMINIUM	2x 1 x 150	73,44	80,784	161,57	279,04	20	EPR	2	25	360,576	OK	1,08%			1,295763

MAX. VOLTAGE DROP 1,90% 2% OK

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 2 . 15 . 1 . 1 . 1	string box SB 2 , 15 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 10	91,86	101,046	202,09	17,44	20	EPR	6	In contact	47,5	OK	0,87%			0,060
string 2 . 15 . 1 . 1 2	string box SB 2 , 15 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 10	91,86	101,046	202,09	17,44	20	EPR	6	In contact	47,5	OK	0,87%			0,060
string 2 . 15 . 1 . 1 3	string box SB 2 , 15 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	59,13	65,043	130,09	17,44	20	EPR	6	In contact	35	OK	0,97%			0,067
string 2 . 15 . 1 . 1 4	string box SB 2 , 15 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	67,73	74,503	149,01	17,44	20	EPR	6	In contact	35	OK	1,11%			0,077
string 2 . 15 . 1 . 1 5	string box SB 2 , 15 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	67,73	74,503	149,01	17,44	20	EPR	6	In contact	35	OK	1,11%			0,077
string 2 . 15 . 1 . 1 6	string box SB 2 , 15 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 16	110,98	122,078	244,16	17,44	20	EPR	6	In contact	65	OK	0,67%			0,046
string 2 . 15 . 1 . 1 7	string box SB 2 , 15 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 16	110,98	122,078	244,16	17,44	20	EPR	6	In contact	65	OK	0,67%			0,046
string 2 . 15 . 1 . 1 8	string box SB 2 , 15 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	43,59	47,949	95,898	17,44	20	EPR	6	In contact	35	OK	0,72%			0,049
string 2 . 15 . 1 . 1 9	string box SB 2 , 15 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	43,59	47,949	95,898	17,44	20	EPR	6	In contact	35	OK	0,72%			0,049
string 2 . 15 . 1 . 1 10	string box SB 2 , 15 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 10	86,85	95,535	191,07	17,44	20	EPR	6	In contact	47,5	OK	0,82%			0,057
string 2 . 15 . 1 . 1 11	string box SB 2 , 15 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 10	86,85	95,535	191,07	17,44	20	EPR	6	In contact	47,5	OK	0,82%			0,057
string 2 . 15 . 1 . 1 12	string box SB 2 , 15 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	10,85	11,935	23,87	17,44	20	EPR	6	In contact	35	OK	0,18%			0,012
string 2 . 15 . 1 . 1 13	string box SB 2 , 15 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	18,62	20,482	40,964	17,44	20	EPR	6	In contact	35	OK	0,31%			0,021
string 2 . 15 . 1 . 1 14	string box SB 2 , 15 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	39,45	43,395	86,79	17,44	20	EPR	6	In contact	35	OK	0,65%			0,045
string 2 . 15 . 1 . 1 15	string box SB 2 , 15 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	39,45	43,395	86,79	17,44	20	EPR	6	In contact	35	OK	0,65%			0,045
string 2 . 15 . 1 . 1 16	string box SB 2 , 15 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 10	82,71	90,981	181,96	17,44	20	EPR	6	In contact	47,5	OK	0,78%			0,054
string 2 . 15 . 1 . 1 17	string box SB 2 , 15 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 10	82,71	90,981	181,96	17,44	20	EPR	6	In contact	47,5	OK	0,78%			0,054
string 2 . 15 . 1 . 1 18	string box SB 2 , 15 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	35,31	38,841	77,682	17,44	20	EPR	6	In contact	35	OK	0,58%			0,040
string 2 . 15 . 1 . 1 19	string box SB 2 , 15 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	35,31	38,841	77,682	17,44	20	EPR	6	In contact	35	OK	0,58%			0,040
string 2 . 15 . 1 . 1 20	string box SB 2 , 15 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	42,76	47,036	94,072	17,44	20	EPR	6	In contact	35	OK	0,70%			0,048
string box SB 2 , 15 . 1 . 1	conversion unit CU 15 ,	ARG70R	ALUMINIUM	2x 1 x 185	22,32	24,552	49,104	348,8	20	EPR	2	25	403,2	OK	0,33%			0,489873

MAX. VOLTAGE DROP 1,44% 2% OK

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 2 . 15 . 1 . 2 . 1	string box SB 2 , 15 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 10	91,86	101,046	202,09	17,44	20	EPR	6	In contact	47,5	OK	0,87%			0,060
string 2 . 15 . 1 . 2 2	string box SB 2 , 15 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 10	67,73	74,503	149,01	17,44	20	EPR	6	In contact	47,5	OK	0,64%			0,044
string 2 . 15 . 1 . 2 3	string box SB 2 , 15 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 10	67,73	74,503	149,01	17,44	20	EPR	6	In contact	47,5	OK	0,64%			0,044
string 2 . 15 . 1 . 2 4	string box SB 2 , 15 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	24,47	26,917	53,834	17,44	20	EPR	6	In contact	35	OK	0,40%			0,028
string 2 . 15 . 1 . 2 5	string box SB 2 , 15 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	24,47	26,917	53,834	17,44	20	EPR	6	In contact	35	OK	0,40%			0,028
string 2 . 15 . 1 . 2 6	string box SB 2 , 15 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	43,59	47,949	95,898	17,44	20	EPR	6	In contact	35	OK	0,72%			0,049
string 2 . 15 . 1 . 2 7	string box SB 2 , 15 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	43,59	47,949	95,898	17,44	20	EPR	6	In contact	35	OK	0,72%			0,049
string 2 . 15 . 1 . 2 8	string box SB 2 , 15 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	10,85	11,935	23,87	17,44	20	EPR	6	In contact	35	OK	0,18%			0,012
string 2 . 15 . 1 . 2 9	string box SB 2 , 15 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	10,85	11,935	23,87	17,44	20	EPR	6	In contact	35	OK	0,18%			0,012
string 2 . 15 . 1 . 2 10	string box SB 2 , 15 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	39,45	43,395	86,79	17,44	20	EPR	6	In contact	35	OK	0,65%			0,045
string 2 . 15 . 1 . 2 11	string box SB 2 , 15 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	39,45	43,395	86,79	17,44	20	EPR	6	In contact	35	OK	0,65%			0,045
string 2 . 15 . 1 . 2 12	string box SB 2 , 15 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	45,33	43,395	86,79	17,44	20	EPR	6	In contact	35	OK	0,65%			0,045
string box SB 2 , 15 . 1 . 2	conversion unit CU 15 ,	ARG70R	ALUMINIUM	2x 1 x 150	84,98	93,478	186,96	209,28	20	EPR	2	25	360,576	OK	0,93%			0,843397

MAX. VOLTAGE DROP 1,80% 2% OK

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 2 . 16 . 1 . 1 . 1	string box SB 2 , 16 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 10	52,39	57,629	115,26	17,44	20	EPR	6	In contact	47,5	OK	0,50%			0,034

string	2	.	16	.	1	.	1	2	string box	SB	2	,	16	.	1	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	10	52,39	57,629	115,26	17,44	20	EPR	6	In contact	47,5	OK	0,50%			0,034
string	2	.	16	.	1	.	1	3	string box	SB	2	,	16	.	1	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	10	47,92	52,712	105,42	17,44	20	EPR	6	In contact	47,5	OK	0,45%			0,031
string	2	.	16	.	1	.	1	4	string box	SB	2	,	16	.	1	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	10	47,92	52,712	105,42	17,44	20	EPR	6	In contact	47,5	OK	0,45%			0,031
string	2	.	16	.	1	.	1	5	string box	SB	2	,	16	.	1	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	10	43,59	47,949	95,898	17,44	20	EPR	6	In contact	47,5	OK	0,41%			0,028
string	2	.	16	.	1	.	1	6	string box	SB	2	,	16	.	1	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	10	43,59	47,949	95,898	17,44	20	EPR	6	In contact	47,5	OK	0,41%			0,028
string	2	.	16	.	1	.	1	7	string box	SB	2	,	16	.	1	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	10,85	11,935	23,87	17,44	20	EPR	6	In contact	35	OK	0,18%			0,012
string	2	.	16	.	1	.	1	8	string box	SB	2	,	16	.	1	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	10	59,3	65,23	130,46	17,44	20	EPR	6	In contact	47,5	OK	0,56%			0,039
string	2	.	16	.	1	.	1	9	string box	SB	2	,	16	.	1	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	10	59,3	65,23	130,46	17,44	20	EPR	6	In contact	47,5	OK	0,56%			0,039
string	2	.	16	.	1	.	1	10	string box	SB	2	,	16	.	1	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	16,04	17,644	35,288	17,44	20	EPR	6	In contact	35	OK	0,26%			0,018
string	2	.	16	.	1	.	1	11	string box	SB	2	,	16	.	1	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	16,04	17,644	35,288	17,44	20	EPR	6	In contact	35	OK	0,26%			0,018
string	2	.	16	.	1	.	1	12	string box	SB	2	,	16	.	1	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	10	71,35	17,644	35,288	17,44	20	EPR	6	In contact	47,5	OK	0,15%			0,010
string	2	.	16	.	1	.	1	13	string box	SB	2	,	16	.	1	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	10	71,35	78,485	156,97	17,44	20	EPR	6	In contact	47,5	OK	0,68%			0,047
string	2	.	16	.	1	.	1	14	string box	SB	2	,	16	.	1	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	28,09	30,899	61,798	17,44	20	EPR	6	In contact	35	OK	0,46%			0,032
string	2	.	16	.	1	.	1	15	string box	SB	2	,	16	.	1	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	28,09	30,899	61,798	17,44	20	EPR	6	In contact	35	OK	0,46%			0,032
string	2	.	16	.	1	.	1	16	string box	SB	2	,	16	.	1	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	10	56,73	62,403	124,81	17,44	20	EPR	6	In contact	47,5	OK	0,54%			0,037
string box	SB	2	,	16	.	1	.	1	conversion unit	CU			16		,			ARG70R	ALUMINIUM	2x	2	x	240	294,2	323,62	1294,5	279,04	20	EPR	6	25	370,048	OK	1,31%			1,574883
																															MAX. VOLTAGE DROP		1,98%	2%	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 2 . 16 . 1 . 2 . 1	string box SB 2 , 16 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 16	111,01	122,111	244,22	17,44	20	EPR	6	In contact	65	OK	0,67%			0,046
string 2 . 16 . 1 . 2 2	string box SB 2 , 16 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 16	110,1	121,11	242,22	17,44	20	EPR	6	In contact	65	OK	0,66%			0,046
string 2 . 16 . 1 . 2 3	string box SB 2 , 16 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 10	67,75	74,525	149,05	17,44	20	EPR	6	In contact	47,5	OK	0,64%			0,044
string 2 . 16 . 1 . 2 4	string box SB 2 , 16 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 10	67,75	74,525	149,05	17,44	20	EPR	6	In contact	47,5	OK	0,64%			0,044
string 2 . 16 . 1 . 2 5	string box SB 2 , 16 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	35,03	38,533	77,066	17,44	20	EPR	6	In contact	35	OK	0,58%			0,040
string 2 . 16 . 1 . 2 6	string box SB 2 , 16 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 10	86,85	95,535	191,07	17,44	20	EPR	6	In contact	47,5	OK	0,82%			0,057
string 2 . 16 . 1 . 2 7	string box SB 2 , 16 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 10	86,85	95,535	191,07	17,44	20	EPR	6	In contact	47,5	OK	0,82%			0,057
string 2 . 16 . 1 . 2 8	string box SB 2 , 16 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	43,59	47,949	95,898	17,44	20	EPR	6	In contact	35	OK	0,72%			0,049
string 2 . 16 . 1 . 2 9	string box SB 2 , 16 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	43,59	47,949	95,898	17,44	20	EPR	6	In contact	35	OK	0,72%			0,049
string 2 . 16 . 1 . 2 10	string box SB 2 , 16 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	10,85	11,935	23,87	17,44	20	EPR	6	In contact	35	OK	0,18%			0,012
string 2 . 16 . 1 . 2 11	string box SB 2 , 16 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 10	82,7	90,97	181,94	17,44	20	EPR	6	In contact	47,5	OK	0,78%			0,054
string 2 . 16 . 1 . 2 12	string box SB 2 , 16 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 10	82,7	90,97	181,94	17,44	20	EPR	6	In contact	47,5	OK	0,78%			0,054
string 2 . 16 . 1 . 2 13	string box SB 2 , 16 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	39,44	43,384	86,768	17,44	20	EPR	6	In contact	35	OK	0,65%			0,045
string 2 . 16 . 1 . 2 14	string box SB 2 , 16 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	39,44	43,384	86,768	17,44	20	EPR	6	In contact	35	OK	0,65%			0,045
string box SB 2 , 16 . 1 . 2	conversion unit CU 16 ,	ARG70R	ALUMINIUM	2x 2 x 185	217,35	239,085	956,34	244,16	20	EPR	6	25	313,6	OK	1,11%			1,168733
															MAX. VOLTAGE DROP	1,93%	2%	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 2 . 16 . 1 . 3 . 1	string box SB 2 , 16 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	59,2	65,12	130,24	17,44	20	EPR	6	In contact	35	OK	0,97%			0,067
string 2 . 16 . 1 . 3 2	string box SB 2 , 16 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 16	110,98	122,078	244,16	17,44	20	EPR	6	In contact	65	OK	0,67%			0,046
string 2 . 16 . 1 . 3 3	string box SB 2 , 16 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 16	110,98	122,078	244,16	17,44	20	EPR	6	In contact	65	OK	0,67%			0,046
string 2 . 16 . 1 . 3 4	string box SB 2 , 16 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 10	67,73	74,503	149,01	17,44	20	EPR	6	In contact	47,5	OK	0,64%			0,044
string 2 . 16 . 1 . 3 5	string box SB 2 , 16 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 10	67,73	74,503	149,01	17,44	20	EPR	6	In contact	47,5	OK	0,64%			0,044
string 2 . 16 . 1 . 3 6	string box SB 2 , 16 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	34,99	38,489	76,978	17,44	20	EPR	6	In contact	35	OK	0,58%			0,040
string 2 . 16 . 1 . 3 7	string box SB 2 , 16 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 10	86,85	95,535	191,07	17,44	20	EPR	6	In contact	47,5	OK	0,82%			0,057
string 2 . 16 . 1 . 3 8	string box SB 2 , 16 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 10	86,85	95,535	191,07	17,44	20	EPR	6	In contact	47,5	OK	0,82%			0,057
string 2 . 16 . 1 . 3 9	string box SB 2 , 16 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	43,42	47,762	95,524	17,44	20	EPR	6	In contact	35	OK	0,71%			0,049
string 2 . 16 . 1 . 3 10	string box SB 2 , 16 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	43,42	47,762	95,524	17,44	20	EPR	6	In contact	35	OK	0,71%			0,049
string 2 . 16 . 1 . 3 11	string box SB 2 , 16 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	10,85	11,935	23,87	17,44	20	EPR	6	In contact	35	OK	0,18%			0,012
string 2 . 16 . 1 . 3 12	string box SB 2 , 16 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 10	82,66	90,926	181,85	17,44	20	EPR	6	In contact	47,5	OK	0,78%			0,054

string	2	.	16	.	1	.	3	13	string box	SB	2	,	16	.	1	.	3	H1Z2Z2	TINNED COPPER	2x	1	x	10	82,66	90,926	181,85	17,44	20	EPR	6	In contact	47,5	OK	0,78%			0,054
string	2	.	16	.	1	.	3	14	string box	SB	2	,	16	.	1	.	3	H1Z2Z2	TINNED COPPER	2x	1	x	6	39,41	43,351	86,702	17,44	20	EPR	6	In contact	35	OK	0,65%			0,045
string	2	.	16	.	1	.	3	15	string box	SB	2	,	16	.	1	.	3	H1Z2Z2	TINNED COPPER	2x	1	x	6	39,41	43,351	86,702	17,44	20	EPR	6	In contact	35	OK	0,65%			0,045
string	2	.	16	.	1	.	3	16	string box	SB	2	,	16	.	1	.	3	H1Z2Z2	TINNED COPPER	2x	1	x	6	18,38	20,218	40,436	17,44	20	EPR	6	In contact	35	OK	0,30%			0,021
string box	SB	2	,	16	.	1	.	3	conversion unit	CU			16		,			ARG70R	ALUMINIUM	2x	2	x	240	165,18	181,698	726,79	279,04	20	EPR	6	25	370,048	OK	0,73%			0,884226
																														MAX. VOLTAGE DROP			1,71%	2%	OK	

From								To									Cable code	Type of cable	Formation				Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviro ment Temp. [°C]	Insulat ing	Numb er of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string	2	.	16	.	2	.	1	1	string box	SB	2	,	16	.	2	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	16	111,03	122,133	244,27	17,44	20	EPR	6	In contact	65	OK	0,67%			0,046
string	2	.	16	.	2	.	1	2	string box	SB	2	,	16	.	2	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	16	111,03	122,133	244,27	17,44	20	EPR	6	In contact	65	OK	0,67%			0,046
string	2	.	16	.	2	.	1	3	string box	SB	2	,	16	.	2	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	10	67,77	74,547	149,09	17,44	20	EPR	6	In contact	47,5	OK	0,64%			0,044
string	2	.	16	.	2	.	1	4	string box	SB	2	,	16	.	2	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	10	67,77	74,547	149,09	17,44	20	EPR	6	In contact	47,5	OK	0,64%			0,044
string	2	.	16	.	2	.	1	5	string box	SB	2	,	16	.	2	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	35,03	38,533	77,066	17,44	20	EPR	6	In contact	35	OK	0,58%			0,040
string	2	.	16	.	2	.	1	6	string box	SB	2	,	16	.	2	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	10	86,85	95,535	191,07	17,44	20	EPR	6	In contact	47,5	OK	0,82%			0,057
string	2	.	16	.	2	.	1	7	string box	SB	2	,	16	.	2	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	10	86,85	95,535	191,07	17,44	20	EPR	6	In contact	47,5	OK	0,82%			0,057
string	2	.	16	.	2	.	1	8	string box	SB	2	,	16	.	2	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	43,59	47,949	95,898	17,44	20	EPR	6	In contact	35	OK	0,72%			0,049
string	2	.	16	.	2	.	1	9	string box	SB	2	,	16	.	2	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	43,59	47,949	95,898	17,44	20	EPR	6	In contact	35	OK	0,72%			0,049
string	2	.	16	.	2	.	1	10	string box	SB	2	,	16	.	2	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	10,85	11,935	23,87	17,44	20	EPR	6	In contact	35	OK	0,18%			0,012
string	2	.	16	.	2	.	1	11	string box	SB	2	,	16	.	2	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	10	82,66	90,926	181,85	17,44	20	EPR	6	In contact	47,5	OK	0,78%			0,054
string	2	.	16	.	2	.	1	12	string box	SB	2	,	16	.	2	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	10	82,66	90,926	181,85	17,44	20	EPR	6	In contact	47,5	OK	0,78%			0,054
string	2	.	16	.	2	.	1	13	string box	SB	2	,	16	.	2	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	39,41	43,351	86,702	17,44	20	EPR	6	In contact	35	OK	0,65%			0,045
string	2	.	16	.	2	.	1	14	string box	SB	2	,	16	.	2	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	39,41	43,351	86,702	17,44	20	EPR	6	In contact	35	OK	0,65%			0,045
string	2	.	16	.	2	.	1	15	string box	SB	2	,	16	.	2	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	20,05	22,055	44,11	17,44	20	EPR	6	In contact	35	OK	0,33%			0,023
string	2	.	16	.	2	.	1	16	string box	SB	2	,	16	.	2	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	10	78,48	86,328	172,66	17,44	20	EPR	6	In contact	47,5	OK	0,74%			0,051
string	2	.	16	.	2	.	1	17	string box	SB	2	,	16	.	2	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	10	78,48	86,328	172,66	17,44	20	EPR	6	In contact	47,5	OK	0,74%			0,051
string	2	.	16	.	2	.	1	18	string box	SB	2	,	16	.	2	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	35,23	38,753	77,506	17,44	20	EPR	6	In contact	35	OK	0,58%			0,040
string	2	.	16	.	2	.	1	19	string box	SB	2	,	16	.	2	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	35,23	38,753	77,506	17,44	20	EPR	6	In contact	35	OK	0,58%			0,040
string	2	.	16	.	2	.	1	20	string box	SB	2	,	16	.	2	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	44,23	48,653	97,306	17,44	20	EPR	6	In contact	35	OK	0,73%			0,050
string box	SB	2	,	16	.	2	.	1	conversion unit	CU			16		,			ARG70R	ALUMINIUM	2x	1	x	300	112,77	124,047	248,09	348,8	20	EPR	6	25	406,784	OK	1,00%			1,509174
																														MAX. VOLTAGE DROP			1,82%	2%	OK	

From								To									Cable code	Type of cable	Formation				Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviro ment Temp. [°C]	Insulat ing	Numb er of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string	2	.	16	.	2	.	2	1	string box	SB	2	,	16	.	2	.	2	H1Z2Z2	TINNED COPPER	2x	1	x	16	111,03	122,133	244,27	17,44	20	EPR	6	In contact	65	OK	0,67%			0,046
string	2	.	16	.	2	.	2	2	string box	SB	2	,	16	.	2	.	2	H1Z2Z2	TINNED COPPER	2x	1	x	16	111,03	122,133	244,27	17,44	20	EPR	6	In contact	65	OK	0,67%			0,046
string	2	.	16	.	2	.	2	3	string box	SB	2	,	16	.	2	.	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	67,77	74,547	149,09	17,44	20	EPR	6	In contact	35	OK	1,12%			0,077
string	2	.	16	.	2	.	2	4	string box	SB	2	,	16	.	2	.	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	67,77	74,547	149,09	17,44	20	EPR	6	In contact	35	OK	1,12%			0,077
string	2	.	16	.	2	.	2	5	string box	SB	2	,	16	.	2	.	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	35,03	38,533	77,066	17,44	20	EPR	6	In contact	35	OK	0,58%			0,040
string	2	.	16	.	2	.	2	6	string box	SB	2	,	16	.	2	.	2	H1Z2Z2	TINNED COPPER	2x	1	x	10	86,85	95,535	191,07	17,44	20	EPR	6	In contact	47,5	OK	0,82%			0,057
string	2	.	16	.	2	.	2	7	string box	SB	2	,	16	.	2	.	2	H1Z2Z2	TINNED COPPER	2x	1	x	10	86,85	95,535	191,07	17,44	20	EPR	6	In contact	47,5	OK	0,82%			0,057
string	2	.	16	.	2	.	2	8	string box	SB	2	,	16	.	2	.	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	43,59	47,949	95,898	17,44	20	EPR	6	In contact	35	OK	0,72%			0,049
string	2	.	16	.	2	.	2	9	string box	SB	2	,	16	.	2	.	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	43,59	47,949	95,898	17,44	20	EPR	6	In contact	35	OK	0,72%			0,049
string	2	.	16	.	2	.	2	10	string box	SB	2	,	16	.	2	.	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	10,85	11,935	23,87	17,44	20	EPR	6	In contact	35	OK	0,18%			0,012
string	2	.	16	.	2	.	2	11	string box	SB	2	,	16	.	2	.	2	H1Z2Z2	TINNED COPPER	2x	1	x	10	82,66	90,926	181,85	17,44	20	EPR	6	In contact	47,5	OK	0,78%			0,054
string	2	.	16	.	2	.	2	12	string box	SB	2	,	16	.	2	.	2	H1Z2Z2	TINNED COPPER	2x	1	x	10	82,66	90,926	181,85	17,44	20	EPR	6	In contact	47,5	OK	0,78%			0,054
string	2	.	16	.	2	.	2	13	string box	SB	2	,	16	.	2	.	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	39,41	43,351	86,702	17,44	20	EPR	6	In contact	35	OK	0,65%			0,045
string	2	.	16	.	2	.	2	14	string box	SB	2	,	16	.	2	.	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	39,41	43,351	86,702	17,44	20	EPR	6	In contact	35	OK	0,65%			0,045
string	2	.	16	.	2	.	2	15	string box	SB	2	,	16	.	2	.	2	H1Z2Z2	TINNED COPPER	2x	1	x	10	78,48	86,328	172,66	17,44	20	EPR	6	In contact	47,5	OK	0,74%			0,051
string	2	.	16	.	2	.	2	16	string box	SB	2	,	16	.	2	.	2	H1Z2Z2	TINNED COPPER	2x	1	x	10	78,48	86,328	172,66	17,44	20	EPR	6	In contact	47,5	OK	0,74%			0,051
string	2	.	16	.	2	.	2	17	string box	SB	2	,	16	.	2	.	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	45,03	49,533	99,066	17,44	20	EPR	6	In contact	35	OK	0,74%			0,051

string	2 . 16 . 2 . 2 18	string box	SB 2 , 16 . 2 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 10	74,3	81,73	163,46	17,44	20	EPR	6	In contact	47,5	OK	0,70%			0,048
string	2 . 16 . 2 . 2 19	string box	SB 2 , 16 . 2 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 10	74,3	81,73	163,46	17,44	20	EPR	6	In contact	47,5	OK	0,70%			0,048
string	2 . 16 . 2 . 2 20	string box	SB 2 , 16 . 2 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 10	81,2	89,32	178,64	17,44	20	EPR	6	In contact	47,5	OK	0,77%			0,053
string box	SB 2 , 16 . 2 . 2	conversion unit	CU 16 ,	ARG70R	ALUMINIUM	2x 1 x 240	39,67	43,637	87,274	348,8	20	EPR	6	25	370,048	OK	0,44%			0,663618
															MAX. VOLTAGE DROP		**1,56%**	**2%**	OK	

Total Losses (Segment between string boxes and PV strings) [kW]	Producted DC Power [kW]	Percentage of total losses	Losses admitted	Losses Test	Total Losses (Segment between inverter input and string boxes) [kW]	Percentage of total losses	Losses admitted	Losses Test
14,533	6505,0	0,22%	0,60%	OK	18,226	0,28%	0,40%	OK

Module	P [Wp]	Immp [A]	Isc [A]	Vmpp [V]	Voc [V]	Vi [V]	Modules per string
TSM-DE20	605	17,44	18,47	34,4	41,5	1500	32

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 3.1,1.1.1	string box SB 3,1.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 3.1,1.1 2	string box SB 3,1.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 3.1,1.1 3	string box SB 3,1.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 3.1,1.1 4	string box SB 3,1.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 3.1,1.1 5	string box SB 3,1.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string 3.1,1.1 6	string box SB 3,1.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string 3.1,1.1 7	string box SB 3,1.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	64,63	71,093	142,186	17,44	20	EPR	6	In contact	35	OK	1,06%			0,073
string 3.1,1.1 8	string box SB 3,1.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	64,63	71,093	142,186	17,44	20	EPR	6	In contact	35	OK	1,06%			0,073
string 3.1,1.1 9	string box SB 3,1.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string 3.1,1.1 10	string box SB 3,1.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string 3.1,1.1 11	string box SB 3,1.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	117,89	129,679	259,358	17,44	20	EPR	6	In contact	47,5	OK	1,12%			0,077
string 3.1,1.1 12	string box SB 3,1.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	117,89	129,679	259,358	17,44	20	EPR	6	In contact	47,5	OK	1,12%			0,077
string 3.1,1.1 13	string box SB 3,1.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	107,89	118,679	237,358	17,44	20	EPR	6	In contact	47,5	OK	1,02%			0,070
string 3.1,1.1 14	string box SB 3,1.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	107,89	118,679	237,358	17,44	20	EPR	6	In contact	47,5	OK	1,02%			0,070
string 3.1,1.1 15	string box SB 3,1.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	117,89	129,679	259,358	17,44	20	EPR	6	In contact	47,5	OK	1,12%			0,077
string 3.1,1.1 16	string box SB 3,1.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	117,89	129,679	259,358	17,44	20	EPR	6	In contact	47,5	OK	1,12%			0,077
string box SB 3,1.1.1	conversion unit CU 1	ARG70R	ALUMINIUM	2x 1 x 120	24,82	27,302	54,604	279,04	20	EPR	1	In contact	354,56	OK	0,49%			0,538
														MAX. VOLTAGE DROP	1,60%	2%	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 3.1,1.2.1	string box SB 3,1.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	20,85	22,935	45,87	17,44	20	EPR	6	In contact	35	OK	0,34%			0,024
string 3.1,1.2 2	string box SB 3,1.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	10,85	11,935	23,87	17,44	20	EPR	6	In contact	35	OK	0,18%			0,012
string 3.1,1.2 3	string box SB 3,1.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	58,85	64,735	129,47	17,44	20	EPR	6	In contact	35	OK	0,97%			0,067
string 3.1,1.2 4	string box SB 3,1.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	58,85	64,735	129,47	17,44	20	EPR	6	In contact	35	OK	0,97%			0,067
string 3.1,1.2 5	string box SB 3,1.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	43,59	47,949	95,898	17,44	20	EPR	6	In contact	35	OK	0,72%			0,049
string 3.1,1.2 6	string box SB 3,1.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	43,59	47,949	95,898	17,44	20	EPR	6	In contact	35	OK	0,72%			0,049
string 3.1,1.2 7	string box SB 3,1.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	53,59	58,949	117,898	17,44	20	EPR	6	In contact	35	OK	0,88%			0,061
string 3.1,1.2 8	string box SB 3,1.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	53,59	58,949	117,898	17,44	20	EPR	6	In contact	35	OK	0,88%			0,061
string 3.1,1.2 9	string box SB 3,1.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	63,59	69,949	139,898	17,44	20	EPR	6	In contact	35	OK	1,05%			0,072
string 3.1,1.2 10	string box SB 3,1.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	63,59	69,949	139,898	17,44	20	EPR	6	In contact	35	OK	1,05%			0,072
string 3.1,1.2 11	string box SB 3,1.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	96,85	106,535	213,07	17,44	20	EPR	6	In contact	47,5	OK	0,92%			0,063
string 3.1,1.2 12	string box SB 3,1.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	96,85	106,535	213,07	17,44	20	EPR	6	In contact	47,5	OK	0,92%			0,063
string box SB 3,1.1.2	conversion unit CU 1	ARG70R	ALUMINIUM	2x 1 x 150	14,94	16,434	32,868	209,28	20	EPR	1	In contact	400,64	OK	0,16%			0,148274
														MAX. VOLTAGE DROP	1,21%	2%	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 3.2.1.1.1	string box SB 3,2.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 3.2.1.1 2	string box SB 3,2.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024

string	3.2.1.1	3	string box	SB 3,2.1.1	H1Z2Z2	TINNED COPPER	2x	1	x	6	32,87	36,157	72,314	17,44	20	EPR	6	In contact	35	OK	0,54%			0,037
string	3.2.1.1	4	string box	SB 3,2.1.1	H1Z2Z2	TINNED COPPER	2x	1	x	6	32,87	36,157	72,314	17,44	20	EPR	6	In contact	35	OK	0,54%			0,037
string	3.2.1.1	5	string box	SB 3,2.1.1	H1Z2Z2	TINNED COPPER	2x	1	x	6	32,87	36,157	72,314	17,44	20	EPR	6	In contact	35	OK	0,54%			0,037
string	3.2.1.1	6	string box	SB 3,2.1.1	H1Z2Z2	TINNED COPPER	2x	1	x	6	32,87	36,157	72,314	17,44	20	EPR	6	In contact	35	OK	0,54%			0,037
string	3.2.1.1	7	string box	SB 3,2.1.1	H1Z2Z2	TINNED COPPER	2x	1	x	10	76,13	83,743	167,486	17,44	20	EPR	6	In contact	47,5	OK	0,72%			0,050
string	3.2.1.1	8	string box	SB 3,2.1.1	H1Z2Z2	TINNED COPPER	2x	1	x	10	76,13	83,743	167,486	17,44	20	EPR	6	In contact	47,5	OK	0,72%			0,050
string	3.2.1.1	9	string box	SB 3,2.1.1	H1Z2Z2	TINNED COPPER	2x	1	x	10	64,63	71,093	142,186	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string	3.2.1.1	10	string box	SB 3,2.1.1	H1Z2Z2	TINNED COPPER	2x	1	x	10	64,63	71,093	142,186	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string	3.2.1.1	11	string box	SB 3,2.1.1	H1Z2Z2	TINNED COPPER	2x	1	x	10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string	3.2.1.1	12	string box	SB 3,2.1.1	H1Z2Z2	TINNED COPPER	2x	1	x	10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string box	SB 3,2.1.1		conversion unit	CU 2,	ARG70R	ALUMINIUM	2x	2	x	240	370,15	407,165	1628,66	209,28	20	EPR	6	25	370,048	OK	1,23%			1,114566
																		MAX. VOLTAGE DROP			1,95%	2%	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string	3.2.1.2.1 string box	SB 3,2.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	10,85	11,935	23,87	17,44	20	EPR	6	In contact	35	OK	0,18%			0,012
string	3.2.1.2 2 string box	SB 3,2.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	12,81	14,091	28,182	17,44	20	EPR	6	In contact	35	OK	0,21%			0,015
string	3.2.1.2 3 string box	SB 3,2.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	12,81	14,091	28,182	17,44	20	EPR	6	In contact	35	OK	0,21%			0,015
string	3.2.1.2 4 string box	SB 3,2.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	40,02	44,022	88,044	17,44	20	EPR	6	In contact	35	OK	0,66%			0,045
string	3.2.1.2 5 string box	SB 3,2.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	22,81	25,091	50,182	17,44	20	EPR	6	In contact	35	OK	0,38%			0,026
string	3.2.1.2 6 string box	SB 3,2.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	22,81	25,091	50,182	17,44	20	EPR	6	In contact	35	OK	0,38%			0,026
string	3.2.1.2 7 string box	SB 3,2.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	43,42	47,762	95,524	17,44	20	EPR	6	In contact	47,5	OK	0,41%			0,028
string	3.2.1.2 8 string box	SB 3,2.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	43,42	47,762	95,524	17,44	20	EPR	6	In contact	47,5	OK	0,41%			0,028
string	3.2.1.2 9 string box	SB 3,2.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	54,83	60,313	120,626	17,44	20	EPR	6	In contact	47,5	OK	0,52%			0,036
string	3.2.1.2 10 string box	SB 3,2.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	54,83	60,313	120,626	17,44	20	EPR	6	In contact	47,5	OK	0,52%			0,036
string	3.2.1.2 11 string box	SB 3,2.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	64,83	71,313	142,626	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string	3.2.1.2 12 string box	SB 3,2.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	64,83	71,313	142,626	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string	3.2.1.2 13 string box	SB 3,2.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 16	86,85	95,535	191,07	17,44	20	EPR	6	In contact	65	OK	0,52%			0,036
string	3.2.1.2 14 string box	SB 3,2.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 16	86,85	95,535	191,07	17,44	20	EPR	6	In contact	65	OK	0,52%			0,036
string	3.2.1.2 15 string box	SB 3,2.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 16	96,85	106,535	213,07	17,44	20	EPR	6	In contact	65	OK	0,58%			0,040
string	3.2.1.2 16 string box	SB 3,2.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 16	96,85	106,535	213,07	17,44	20	EPR	6	In contact	65	OK	0,58%			0,040
string	3.2.1.2 17 string box	SB 3,2.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 16	104,03	114,433	228,866	17,44	20	EPR	6	In contact	65	OK	0,63%			0,043
string	3.2.1.2 18 string box	SB 3,2.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 16	104,03	114,433	228,866	17,44	20	EPR	6	In contact	65	OK	0,63%			0,043
string box	SB 3,2.2.1	conversion unit	CU 2,	ARG70R	ALUMINIUM	2x 2 x 300	325,8	358,38	1433,52	313,92	20	EPR	6	25	406,784	OK	1,30%			1,765842
														MAX. VOLTAGE DROP			1,96%	2%	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string	3.2.1.3.1 string box	SB 3,2.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string	3.2.1.3 2 string box	SB 3,2.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string	3.2.1.3 3 string box	SB 3,2.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string	3.2.1.3 4 string box	SB 3,2.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string	3.2.1.3 5 string box	SB 3,2.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string	3.2.1.3 6 string box	SB 3,2.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string	3.2.1.3 7 string box	SB 3,2.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string	3.2.1.3 8 string box	SB 3,2.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string	3.2.1.3 9 string box	SB 3,2.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	64,63	71,093	142,186	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string	3.2.1.3 10 string box	SB 3,2.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	64,63	71,093	142,186	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string	3.2.1.3 11 string box	SB 3,2.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string	3.2.1.3 12 string box	SB 3,2.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string	3.2.1.3 13 string box	SB 3,2.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 16	117,89	129,679	259,358	17,44	20	EPR	6	In contact	65	OK	0,71%			0,049
string	3.2.1.3 14 string box	SB 3,2.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 16	117,69	129,459	258,918	17,44	20	EPR	6	In contact	65	OK	0,71%			0,049

string	3	.	2	.	1	.	3	15	string box	SB	3	,	2	.	1	.	3	H1Z2Z2	TINNED COPPER	2x	1	x	16	107,89	118,679	237,358	17,44	20	EPR	6	In contact	65	OK	0,65%			0,045
string	3	.	2	.	1	.	3	16	string box	SB	3	,	2	.	1	.	3	H1Z2Z2	TINNED COPPER	2x	1	x	16	107,89	118,679	237,358	17,44	20	EPR	6	In contact	65	OK	0,65%			0,045
string	3	.	2	.	1	.	3	17	string box	SB	3	,	2	.	1	.	3	H1Z2Z2	TINNED COPPER	2x	1	x	16	117,69	129,459	258,918	17,44	20	EPR	6	In contact	65	OK	0,71%			0,049
string	3	.	2	.	1	.	3	18	string box	SB	3	,	2	.	1	.	3	H1Z2Z2	TINNED COPPER	2x	1	x	16	117,69	129,459	258,918	17,44	20	EPR	6	In contact	65	OK	0,71%			0,049
string	3	.	2	.	1	.	3	19	string box	SB	3	,	2	.	1	.	3	H1Z2Z2	TINNED COPPER	2x	1	x	16	127,89	140,679	281,358	17,44	20	EPR	6	In contact	65	OK	0,77%			0,053
string	3	.	2	.	1	.	3	20	string box	SB	3	,	2	.	1	.	3	H1Z2Z2	TINNED COPPER	2x	1	x	16	127,89	140,679	281,358	17,44	20	EPR	6	In contact	65	OK	0,77%			0,053
string box	SB	3	,	2	.	1	.	3	conversion unit	CU			2		,			ARG70R	ALUMINIUM	2x	2	x	300	222,53	244,783	979,132	348,8	20	EPR	6	25	406,784	OK	0,99%			1,489033
																													MAX. VOLTAGE DROP			1,76%	2%	OK	

From								To									Cable code	Type of cable	Formation				Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string	3	.	2	.	2	.	1	.	1	string box	SB	3	,	2	.	2	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string	3	.	2	.	2	.	1		2	string box	SB	3	,	2	.	2	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string	3	.	2	.	2	.	1		3	string box	SB	3	,	2	.	2	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string	3	.	2	.	2	.	1		4	string box	SB	3	,	2	.	2	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string	3	.	2	.	2	.	1		5	string box	SB	3	,	2	.	2	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string	3	.	2	.	2	.	1		6	string box	SB	3	,	2	.	2	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string	3	.	2	.	2	.	1		7	string box	SB	3	,	2	.	2	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string	3	.	2	.	2	.	1		8	string box	SB	3	,	2	.	2	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string	3	.	2	.	2	.	1		9	string box	SB	3	,	2	.	2	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	64,63	71,093	142,186	17,44	20	EPR	6	In contact	35	OK	1,06%			0,073
string	3	.	2	.	2	.	1		10	string box	SB	3	,	2	.	2	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	64,63	71,093	142,186	17,44	20	EPR	6	In contact	35	OK	1,06%			0,073
string	3	.	2	.	2	.	1		11	string box	SB	3	,	2	.	2	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string	3	.	2	.	2	.	1		12	string box	SB	3	,	2	.	2	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string	3	.	2	.	2	.	1		13	string box	SB	3	,	2	.	2	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	10	69,38	76,318	152,636	17,44	20	EPR	6	In contact	47,5	OK	0,66%			0,045
string	3	.	2	.	2	.	1		14	string box	SB	3	,	2	.	2	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	10	69,38	76,318	152,636	17,44	20	EPR	6	In contact	47,5	OK	0,66%			0,045
string	3	.	2	.	2	.	1		15	string box	SB	3	,	2	.	2	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	10	107,89	118,679	237,358	17,44	20	EPR	6	In contact	47,5	OK	1,02%			0,070
string	3	.	2	.	2	.	1		16	string box	SB	3	,	2	.	2	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	10	107,89	118,679	237,358	17,44	20	EPR	6	In contact	47,5	OK	1,02%			0,070
string	3	.	2	.	2	.	1		17	string box	SB	3	,	2	.	2	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	16	117,89	129,679	259,358	17,44	20	EPR	6	In contact	65	OK	0,71%			0,049
string	3	.	2	.	2	.	1		18	string box	SB	3	,	2	.	2	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	16	117,89	129,679	259,358	17,44	20	EPR	6	In contact	65	OK	0,71%			0,049
string	3	.	2	.	2	.	1		19	string box	SB	3	,	2	.	2	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	16	112,64	123,904	247,808	17,44	20	EPR	6	In contact	65	OK	0,68%			0,047
string	3	.	2	.	2	.	1		20	string box	SB	3	,	2	.	2	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	16	112,64	123,904	247,808	17,44	20	EPR	6	In contact	65	OK	0,68%			0,047
string box	SB	3	,	2	.	2	.	1	conversion unit	CU			2		,			ARG70R	ALUMINIUM	2x	2	x	300	192,53	211,783	847,132	348,8	20	EPR	6	25	406,784	OK	0,86%			1,288291
																													MAX. VOLTAGE DROP			1,92%	2%	OK	

From								To									Cable code	Type of cable	Formation				Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string	3	.	2	.	2	.	2	.	1	string box	SB	3	,	2	.	2	.	2	H1Z2Z2	TINNED COPPER	2x	1	x	10	76,62	84,282	168,564	17,44	20	EPR	6	In contact	47,5	OK	0,73%			0,050
string	3	.	2	.	2	.	2		2	string box	SB	3	,	2	.	2	.	2	H1Z2Z2	TINNED COPPER	2x	1	x	10	76,62	84,282	168,564	17,44	20	EPR	6	In contact	47,5	OK	0,73%			0,050
string	3	.	2	.	2	.	2		3	string box	SB	3	,	2	.	2	.	2	H1Z2Z2	TINNED COPPER	2x	1	x	10	66,62	73,282	146,564	17,44	20	EPR	6	In contact	47,5	OK	0,63%			0,043
string	3	.	2	.	2	.	2		4	string box	SB	3	,	2	.	2	.	2	H1Z2Z2	TINNED COPPER	2x	1	x	10	66,62	73,282	146,564	17,44	20	EPR	6	In contact	47,5	OK	0,63%			0,043
string	3	.	2	.	2	.	2		5	string box	SB	3	,	2	.	2	.	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	56,62	62,282	124,564	17,44	20	EPR	6	In contact	35	OK	0,93%			0,064
string	3	.	2	.	2	.	2		6	string box	SB	3	,	2	.	2	.	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	56,62	62,282	124,564	17,44	20	EPR	6	In contact	35	OK	0,93%			0,064
string	3	.	2	.	2	.	2		7	string box	SB	3	,	2	.	2	.	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string	3	.	2	.	2	.	2		8	string box	SB	3	,	2	.	2	.	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string	3	.	2	.	2	.	2		9	string box	SB	3	,	2	.	2	.	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string	3	.	2	.	2	.	2		10	string box	SB	3	,	2	.	2	.	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string	3	.	2	.	2	.	2		11	string box	SB	3	,	2	.	2	.	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	46,62	51,282	102,564	17,44	20	EPR	6	In contact	35	OK	0,77%			0,053
string	3	.	2	.	2	.	2		12	string box	SB	3	,	2	.	2	.	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	46,62	51,282	102,564	17,44	20	EPR	6	In contact	35	OK	0,77%			0,053
string	3	.	2	.	2	.	2		13	string box	SB	3	,	2	.	2	.	2	H1Z2Z2	TINNED COPPER	2x	1	x	10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string	3	.	2	.	2	.	2		14	string box	SB	3	,	2	.	2	.	2	H1Z2Z2	TINNED COPPER	2x	1	x	10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string	3	.	2	.	2	.	2		15	string box	SB	3	,	2	.	2	.	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	64,63	71,093	142,186	17,44	20	EPR	6	In contact	35	OK	1,06%			0,073
string	3	.	2	.	2	.	2		16	string box	SB	3	,	2	.	2	.	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	64,63	71,093	142,186	17,44	20	EPR	6	In contact	35	OK	1,06%			0,073

string	3.2.2.2	17	string box	SB 3,2.2.2	H1Z2Z2	TINNED COPPER	2x	1	x	10	91,38	100,518	201,036	17,44	20	EPR	6	In contact	47,5	OK	0,87%			0,060
string	3.2.2.2	18	string box	SB 3,2.2.2	H1Z2Z2	TINNED COPPER	2x	1	x	10	91,38	100,518	201,036	17,44	20	EPR	6	In contact	47,5	OK	0,87%			0,060
string	3.2.2.2	19	string box	SB 3,2.2.2	H1Z2Z2	TINNED COPPER	2x	1	x	16	109,39	120,329	240,658	17,44	20	EPR	6	In contact	65	OK	0,66%			0,045
string	3.2.2.2	20	string box	SB 3,2.2.2	H1Z2Z2	TINNED COPPER	2x	1	x	16	109,39	120,329	240,658	17,44	20	EPR	6	In contact	65	OK	0,66%			0,045
string box	SB 3,2.2.2		conversion unit	CU 2,	ARG70R	ALUMINIUM	2x	1	x	300	101,86	112,046	224,092	348,8	20	EPR	6	25	406,784	OK	0,91%			1,363168
																		MAX. VOLTAGE DROP			1,97%	2%	OK	

From		To		Cable code	Type of cable	Formation				Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string	3.2.2.3.1	string box	SB 3,2.2.3	H1Z2Z2	TINNED COPPER	2x	1	x	6	44,23	48,653	97,306	17,44	20	EPR	6	In contact	35	OK	0,73%			0,050
string	3.2.2.3 2	string box	SB 3,2.2.3	H1Z2Z2	TINNED COPPER	2x	1	x	6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string	3.2.2.3 3	string box	SB 3,2.2.3	H1Z2Z2	TINNED COPPER	2x	1	x	6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string	3.2.2.3 4	string box	SB 3,2.2.3	H1Z2Z2	TINNED COPPER	2x	1	x	6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string	3.2.2.3 5	string box	SB 3,2.2.3	H1Z2Z2	TINNED COPPER	2x	1	x	6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string	3.2.2.3 6	string box	SB 3,2.2.3	H1Z2Z2	TINNED COPPER	2x	1	x	6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string	3.2.2.3 7	string box	SB 3,2.2.3	H1Z2Z2	TINNED COPPER	2x	1	x	6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string	3.2.2.3 8	string box	SB 3,2.2.3	H1Z2Z2	TINNED COPPER	2x	1	x	10	84,63	93,093	186,186	17,44	20	EPR	6	In contact	47,5	OK	0,80%			0,055
string	3.2.2.3 9	string box	SB 3,2.2.3	H1Z2Z2	TINNED COPPER	2x	1	x	10	84,63	93,093	186,186	17,44	20	EPR	6	In contact	47,5	OK	0,80%			0,055
string	3.2.2.3 10	string box	SB 3,2.2.3	H1Z2Z2	TINNED COPPER	2x	1	x	6	74,63	82,093	164,186	17,44	20	EPR	6	In contact	35	OK	1,23%			0,085
string	3.2.2.3 11	string box	SB 3,2.2.3	H1Z2Z2	TINNED COPPER	2x	1	x	6	74,63	82,093	164,186	17,44	20	EPR	6	In contact	35	OK	1,23%			0,085
string	3.2.2.3 12	string box	SB 3,2.2.3	H1Z2Z2	TINNED COPPER	2x	1	x	6	64,63	71,093	142,186	17,44	20	EPR	6	In contact	35	OK	1,06%			0,073
string	3.2.2.3 13	string box	SB 3,2.2.3	H1Z2Z2	TINNED COPPER	2x	1	x	6	64,63	71,093	142,186	17,44	20	EPR	6	In contact	35	OK	1,06%			0,073
string	3.2.2.3 14	string box	SB 3,2.2.3	H1Z2Z2	TINNED COPPER	2x	1	x	6	74,63	82,093	164,186	17,44	20	EPR	6	In contact	35	OK	1,23%			0,085
string	3.2.2.3 15	string box	SB 3,2.2.3	H1Z2Z2	TINNED COPPER	2x	1	x	6	74,63	82,093	164,186	17,44	20	EPR	6	In contact	35	OK	1,23%			0,085
string	3.2.2.3 16	string box	SB 3,2.2.3	H1Z2Z2	TINNED COPPER	2x	1	x	10	84,63	93,093	186,186	17,44	20	EPR	6	In contact	47,5	OK	0,80%			0,055
string	3.2.2.3 17	string box	SB 3,2.2.3	H1Z2Z2	TINNED COPPER	2x	1	x	10	84,63	93,093	186,186	17,44	20	EPR	6	In contact	47,5	OK	0,80%			0,055
string	3.2.2.3 18	string box	SB 3,2.2.3	H1Z2Z2	TINNED COPPER	2x	1	x	10	94,63	104,093	208,186	17,44	20	EPR	6	In contact	47,5	OK	0,90%			0,062
string	3.2.2.3 19	string box	SB 3,2.2.3	H1Z2Z2	TINNED COPPER	2x	1	x	10	94,63	104,093	208,186	17,44	20	EPR	6	In contact	47,5	OK	0,90%			0,062
string	3.2.2.3 20	string box	SB 3,2.2.3	H1Z2Z2	TINNED COPPER	2x	1	x	16	115,15	126,665	253,33	17,44	20	EPR	6	In contact	65	OK	0,69%			0,048
string box	SB 3,2.2.3	conversion unit	CU 2,	ARG70R	ALUMINIUM	2x	1	x	240	38,65	42,515	85,03	348,8	20	EPR	6	25	370,048	OK	0,43%			0,646555
																	MAX. VOLTAGE DROP			1,66%	2%	OK	

From		To		Cable code	Type of cable	Formation				Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string	3.3.1.1.1	string box	SB 3,3.1.1	H1Z2Z2	TINNED COPPER	2x	1	x	6	24,62	27,082	54,164	17,44	20	EPR	6	In contact	35	OK	0,41%			0,028
string	3.3.1.1 2	string box	SB 3,3.1.1	H1Z2Z2	TINNED COPPER	2x	1	x	6	24,62	27,082	54,164	17,44	20	EPR	6	In contact	35	OK	0,41%			0,028
string	3.3.1.1 3	string box	SB 3,3.1.1	H1Z2Z2	TINNED COPPER	2x	1	x	6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string	3.3.1.1 4	string box	SB 3,3.1.1	H1Z2Z2	TINNED COPPER	2x	1	x	6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string	3.3.1.1 5	string box	SB 3,3.1.1	H1Z2Z2	TINNED COPPER	2x	1	x	6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string	3.3.1.1 6	string box	SB 3,3.1.1	H1Z2Z2	TINNED COPPER	2x	1	x	6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string	3.3.1.1 7	string box	SB 3,3.1.1	H1Z2Z2	TINNED COPPER	2x	1	x	6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string	3.3.1.1 8	string box	SB 3,3.1.1	H1Z2Z2	TINNED COPPER	2x	1	x	6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string	3.3.1.1 9	string box	SB 3,3.1.1	H1Z2Z2	TINNED COPPER	2x	1	x	10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string	3.3.1.1 10	string box	SB 3,3.1.1	H1Z2Z2	TINNED COPPER	2x	1	x	10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string	3.3.1.1 11	string box	SB 3,3.1.1	H1Z2Z2	TINNED COPPER	2x	1	x	16	117,89	129,679	259,358	17,44	20	EPR	6	In contact	65	OK	0,71%			0,049
string	3.3.1.1 12	string box	SB 3,3.1.1	H1Z2Z2	TINNED COPPER	2x	1	x	16	117,89	129,679	259,358	17,44	20	EPR	6	In contact	65	OK	0,71%			0,049
string box	SB 3,3.1.1	conversion unit	CU 3,	ARG70R	ALUMINIUM	2x	1	x	185	107,58	118,338	236,676	209,28	20	EPR	6	25	313,6	OK	0,94%			0,850009
																	MAX. VOLTAGE DROP			1,65%	2%	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 3.3.1.2.1	string box SB 3,3.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 3.3.1.2.2	string box SB 3,3.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 3.3.1.2.3	string box SB 3,3.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 3.3.1.2.4	string box SB 3,3.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 3.3.1.2.5	string box SB 3,3.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	64,63	71,093	142,186	17,44	20	EPR	6	In contact	35	OK	1,06%			0,073
string 3.3.1.2.6	string box SB 3,3.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	64,63	71,093	142,186	17,44	20	EPR	6	In contact	35	OK	1,06%			0,073
string 3.3.1.2.7	string box SB 3,3.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string 3.3.1.2.8	string box SB 3,3.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string 3.3.1.2.9	string box SB 3,3.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	107,89	118,679	237,358	17,44	20	EPR	6	In contact	47,5	OK	1,02%			0,070
string 3.3.1.2.10	string box SB 3,3.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	107,89	118,679	237,358	17,44	20	EPR	6	In contact	47,5	OK	1,02%			0,070
string 3.3.1.2.11	string box SB 3,3.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 16	117,89	129,679	259,358	17,44	20	EPR	6	In contact	65	OK	0,71%			0,049
string 3.3.1.2.12	string box SB 3,3.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 16	117,89	129,679	259,358	17,44	20	EPR	6	In contact	65	OK	0,71%			0,049
string box SB 3,3.1.2	conversion unit CU 3,	ARG70R	ALUMINIUM	2x 1 x 185	87,58	96,338	192,676	209,28	20	EPR	6	25	313,6	OK	0,77%			0,691985
														MAX. VOLTAGE DROP	1,83%	2%	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 3.3.1.3.1	string box SB 3,3.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 3.3.1.3.2	string box SB 3,3.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 3.3.1.3.3	string box SB 3,3.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 3.3.1.3.4	string box SB 3,3.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 3.3.1.3.5	string box SB 3,3.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string 3.3.1.3.6	string box SB 3,3.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string 3.3.1.3.7	string box SB 3,3.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	64,63	71,093	142,186	17,44	20	EPR	6	In contact	35	OK	1,06%			0,073
string 3.3.1.3.8	string box SB 3,3.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	64,63	71,093	142,186	17,44	20	EPR	6	In contact	35	OK	1,06%			0,073
string 3.3.1.3.9	string box SB 3,3.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string 3.3.1.3.10	string box SB 3,3.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string 3.3.1.3.11	string box SB 3,3.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	84,63	93,093	186,186	17,44	20	EPR	6	In contact	47,5	OK	0,80%			0,055
string 3.3.1.3.12	string box SB 3,3.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	84,63	93,093	186,186	17,44	20	EPR	6	In contact	47,5	OK	0,80%			0,055
string 3.3.1.3.13	string box SB 3,3.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 16	117,89	129,679	259,358	17,44	20	EPR	6	In contact	65	OK	0,71%			0,049
string 3.3.1.3.14	string box SB 3,3.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 16	117,89	129,679	259,358	17,44	20	EPR	6	In contact	65	OK	0,71%			0,049
string 3.3.1.3.15	string box SB 3,3.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	107,89	118,679	237,358	17,44	20	EPR	6	In contact	47,5	OK	1,02%			0,070
string 3.3.1.3.16	string box SB 3,3.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	107,89	118,679	237,358	17,44	20	EPR	6	In contact	47,5	OK	1,02%			0,070
string 3.3.1.3.17	string box SB 3,3.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 16	117,89	129,679	259,358	17,44	20	EPR	6	In contact	65	OK	0,71%			0,049
string 3.3.1.3.18	string box SB 3,3.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 16	117,89	129,679	259,358	17,44	20	EPR	6	In contact	65	OK	0,71%			0,049
string 3.3.1.3.19	string box SB 3,3.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 16	127,89	140,679	281,358	17,44	20	EPR	6	In contact	65	OK	0,77%			0,053
string 3.3.1.3.20	string box SB 3,3.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 16	127,89	140,679	281,358	17,44	20	EPR	6	In contact	65	OK	0,77%			0,053
string box SB 3,3.1.3	conversion unit CU 3,	ARG70R	ALUMINIUM	2x 1 x 240	57,58	63,338	126,676	348,8	20	EPR	6	25	370,048	OK	0,64%			0,963224
														MAX. VOLTAGE DROP	1,70%	2%	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 3.3.2.1.1	string box SB 3,3.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	39,09	42,999	85,998	17,44	20	EPR	6	In contact	35	OK	0,64%			0,044
string 3.3.2.1.2	string box SB 3,3.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	41,37	45,507	91,014	17,44	20	EPR	6	In contact	35	OK	0,68%			0,047

string	3 . 3 . 2 . 1	3	string box	SB 3 , 3 . 2 . 1	H1Z2Z2	TINNED COPPER	2x	1	x	6	41,37	45,507	91,014	17,44	20	EPR	6	In contact	35	OK	0,68%			0,047
string	3 . 3 . 2 . 1	4	string box	SB 3 , 3 . 2 . 1	H1Z2Z2	TINNED COPPER	2x	1	x	6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string	3 . 3 . 2 . 1	5	string box	SB 3 , 3 . 2 . 1	H1Z2Z2	TINNED COPPER	2x	1	x	6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string	3 . 3 . 2 . 1	6	string box	SB 3 , 3 . 2 . 1	H1Z2Z2	TINNED COPPER	2x	1	x	6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string	3 . 3 . 2 . 1	7	string box	SB 3 , 3 . 2 . 1	H1Z2Z2	TINNED COPPER	2x	1	x	6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string	3 . 3 . 2 . 1	8	string box	SB 3 , 3 . 2 . 1	H1Z2Z2	TINNED COPPER	2x	1	x	6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string	3 . 3 . 2 . 1	9	string box	SB 3 , 3 . 2 . 1	H1Z2Z2	TINNED COPPER	2x	1	x	6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string	3 . 3 . 2 . 1	10	string box	SB 3 , 3 . 2 . 1	H1Z2Z2	TINNED COPPER	2x	1	x	6	51,89	57,079	114,158	17,44	20	EPR	6	In contact	35	OK	0,85%			0,059
string	3 . 3 . 2 . 1	11	string box	SB 3 , 3 . 2 . 1	H1Z2Z2	TINNED COPPER	2x	1	x	6	64,63	71,093	142,186	17,44	20	EPR	6	In contact	35	OK	1,06%			0,073
string	3 . 3 . 2 . 1	12	string box	SB 3 , 3 . 2 . 1	H1Z2Z2	TINNED COPPER	2x	1	x	6	64,63	71,093	142,186	17,44	20	EPR	6	In contact	35	OK	1,06%			0,073
string	3 . 3 . 2 . 1	13	string box	SB 3 , 3 . 2 . 1	H1Z2Z2	TINNED COPPER	2x	1	x	10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string	3 . 3 . 2 . 1	14	string box	SB 3 , 3 . 2 . 1	H1Z2Z2	TINNED COPPER	2x	1	x	10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string	3 . 3 . 2 . 1	15	string box	SB 3 , 3 . 2 . 1	H1Z2Z2	TINNED COPPER	2x	1	x	16	107,89	118,679	237,358	17,44	20	EPR	6	In contact	65	OK	0,65%			0,045
string	3 . 3 . 2 . 1	16	string box	SB 3 , 3 . 2 . 1	H1Z2Z2	TINNED COPPER	2x	1	x	16	107,89	118,679	237,358	17,44	20	EPR	6	In contact	65	OK	0,65%			0,045
string	3 . 3 . 2 . 1	17	string box	SB 3 , 3 . 2 . 1	H1Z2Z2	TINNED COPPER	2x	1	x	16	117,89	129,679	259,358	17,44	20	EPR	6	In contact	65	OK	0,71%			0,049
string	3 . 3 . 2 . 1	18	string box	SB 3 , 3 . 2 . 1	H1Z2Z2	TINNED COPPER	2x	1	x	16	117,89	129,679	259,358	17,44	20	EPR	6	In contact	65	OK	0,71%			0,049
string box	SB 3 , 3 . 2 . 1		conversion unit	CU 3 ,	ARG70R	ALUMINIUM	2x	1	x	240	27,58	30,338	60,676	313,92	20	EPR	6	25	370,048	OK	0,28%			0,37371
																		MAX. VOLTAGE DROP			**1,34%**	**2%**	OK	

From		To		Cable code	Type of cable	Formation				Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string	3 . 3 . 2 . 2 . 1	string box	SB 3 , 3 . 2 . 2	H1Z2Z2	TINNED COPPER	2x	1	x	10	96,85	106,535	213,07	17,44	20	EPR	6	In contact	47,5	OK	0,92%			0,063
string	3 . 3 . 2 . 2	2	string box	SB 3 , 3 . 2 . 2	H1Z2Z2	TINNED COPPER	2x	1	x	10	96,85	106,535	213,07	17,44	20	EPR	6	In contact	47,5	OK	0,92%			0,063
string	3 . 3 . 2 . 2	3	string box	SB 3 , 3 . 2 . 2	H1Z2Z2	TINNED COPPER	2x	1	x	6	53,59	58,949	117,898	17,44	20	EPR	6	In contact	35	OK	0,88%			0,061
string	3 . 3 . 2 . 2	4	string box	SB 3 , 3 . 2 . 2	H1Z2Z2	TINNED COPPER	2x	1	x	6	53,59	58,949	117,898	17,44	20	EPR	6	In contact	35	OK	0,88%			0,061
string	3 . 3 . 2 . 2	5	string box	SB 3 , 3 . 2 . 2	H1Z2Z2	TINNED COPPER	2x	1	x	10	86,85	95,535	191,07	17,44	20	EPR	6	In contact	47,5	OK	0,82%			0,057
string	3 . 3 . 2 . 2	6	string box	SB 3 , 3 . 2 . 2	H1Z2Z2	TINNED COPPER	2x	1	x	10	86,85	95,535	191,07	17,44	20	EPR	6	In contact	47,5	OK	0,82%			0,057
string	3 . 3 . 2 . 2	7	string box	SB 3 , 3 . 2 . 2	H1Z2Z2	TINNED COPPER	2x	1	x	6	43,59	47,949	95,898	17,44	20	EPR	6	In contact	35	OK	0,72%			0,049
string	3 . 3 . 2 . 2	8	string box	SB 3 , 3 . 2 . 2	H1Z2Z2	TINNED COPPER	2x	1	x	6	43,59	47,949	95,898	17,44	20	EPR	6	In contact	35	OK	0,72%			0,049
string	3 . 3 . 2 . 2	9	string box	SB 3 , 3 . 2 . 2	H1Z2Z2	TINNED COPPER	2x	1	x	6	10,85	11,935	23,87	17,44	20	EPR	6	In contact	35	OK	0,18%			0,012
string	3 . 3 . 2 . 2	10	string box	SB 3 , 3 . 2 . 2	H1Z2Z2	TINNED COPPER	2x	1	x	10	96,85	106,535	213,07	17,44	20	EPR	6	In contact	47,5	OK	0,92%			0,063
string	3 . 3 . 2 . 2	11	string box	SB 3 , 3 . 2 . 2	H1Z2Z2	TINNED COPPER	2x	1	x	10	96,85	106,535	213,07	17,44	20	EPR	6	In contact	47,5	OK	0,92%			0,063
string	3 . 3 . 2 . 2	12	string box	SB 3 , 3 . 2 . 2	H1Z2Z2	TINNED COPPER	2x	1	x	6	53,59	58,949	117,898	17,44	20	EPR	6	In contact	35	OK	0,88%			0,061
string	3 . 3 . 2 . 2	13	string box	SB 3 , 3 . 2 . 2	H1Z2Z2	TINNED COPPER	2x	1	x	6	53,59	58,949	117,898	17,44	20	EPR	6	In contact	35	OK	0,88%			0,061
string	3 . 3 . 2 . 2	14	string box	SB 3 , 3 . 2 . 2	H1Z2Z2	TINNED COPPER	2x	1	x	6	20,85	22,935	45,87	17,44	20	EPR	6	In contact	35	OK	0,34%			0,024
string	3 . 3 . 2 . 2	15	string box	SB 3 , 3 . 2 . 2	H1Z2Z2	TINNED COPPER	2x	1	x	16	106,85	117,535	235,07	17,44	20	EPR	6	In contact	65	OK	0,64%			0,044
string	3 . 3 . 2 . 2	16	string box	SB 3 , 3 . 2 . 2	H1Z2Z2	TINNED COPPER	2x	1	x	16	106,85	117,535	235,07	17,44	20	EPR	6	In contact	65	OK	0,64%			0,044
string	3 . 3 . 2 . 2	17	string box	SB 3 , 3 . 2 . 2	H1Z2Z2	TINNED COPPER	2x	1	x	6	53,51	58,861	117,722	17,44	20	EPR	6	In contact	35	OK	0,88%			0,061
string	3 . 3 . 2 . 2	18	string box	SB 3 , 3 . 2 . 2	H1Z2Z2	TINNED COPPER	2x	1	x	6	53,51	58,861	117,722	17,44	20	EPR	6	In contact	35	OK	0,88%			0,061
string	3 . 3 . 2 . 2	19	string box	SB 3 , 3 . 2 . 2	H1Z2Z2	TINNED COPPER	2x	1	x	10	95,02	104,522	209,044	17,44	20	EPR	6	In contact	47,5	OK	0,90%			0,062
string	3 . 3 . 2 . 2	20	string box	SB 3 , 3 . 2 . 2	H1Z2Z2	TINNED COPPER	2x	1	x	10	95,02	104,522	209,044	17,44	20	EPR	6	In contact	47,5	OK	0,90%			0,062
string box	SB 3 , 3 . 2 . 2	conversion unit	CU 3 ,	ARG70R	ALUMINIUM	2x	1	x	185	12,62	13,882	27,764	348,8	20	EPR	1	In contact	448	OK	0,18%			0,27698
																	MAX. VOLTAGE DROP			**1,10%**	**2%**	OK	

From		To		Cable code	Type of cable	Formation				Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string	3 . 4 . 1 . 1 . 1	string box	SB 3 , 4 . 1 . 1	H1Z2Z2	TINNED COPPER	2x	1	x	10	84,63	93,093	186,186	17,44	20	EPR	6	In contact	47,5	OK	0,80%			0,055
string	3 . 4 . 1 . 1	2	string box	SB 3 , 4 . 1 . 1	H1Z2Z2	TINNED COPPER	2x	1	x	10	84,63	93,093	186,186	17,44	20	EPR	6	In contact	47,5	OK	0,80%			0,055
string	3 . 4 . 1 . 1	3	string box	SB 3 , 4 . 1 . 1	H1Z2Z2	TINNED COPPER	2x	1	x	6	41,37	45,507	91,014	17,44	20	EPR	6	In contact	35	OK	0,68%			0,047
string	3 . 4 . 1 . 1	4	string box	SB 3 , 4 . 1 . 1	H1Z2Z2	TINNED COPPER	2x	1	x	6	41,37	45,507	91,014	17,44	20	EPR	6	In contact	35	OK	0,68%			0,047
string	3 . 4 . 1 . 1	5	string box	SB 3 , 4 . 1 . 1	H1Z2Z2	TINNED COPPER	2x	1	x	6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string	3 . 4 . 1 . 1	6	string box	SB 3 , 4 . 1 . 1	H1Z2Z2	TINNED COPPER	2x	1	x	6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036

string	3 . 4 . 1 . 1	7	string box	SB 3 , 4 . 1 . 1	H1Z2Z2	TINNED COPPER	2x	1	x	6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string	3 . 4 . 1 . 1	8	string box	SB 3 , 4 . 1 . 1	H1Z2Z2	TINNED COPPER	2x	1	x	6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string	3 . 4 . 1 . 1	9	string box	SB 3 , 4 . 1 . 1	H1Z2Z2	TINNED COPPER	2x	1	x	6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string	3 . 4 . 1 . 1	10	string box	SB 3 , 4 . 1 . 1	H1Z2Z2	TINNED COPPER	2x	1	x	6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string	3 . 4 . 1 . 1	11	string box	SB 3 , 4 . 1 . 1	H1Z2Z2	TINNED COPPER	2x	1	x	6	41,37	45,507	91,014	17,44	20	EPR	6	In contact	35	OK	0,68%			0,047
string	3 . 4 . 1 . 1	12	string box	SB 3 , 4 . 1 . 1	H1Z2Z2	TINNED COPPER	2x	1	x	6	41,37	45,507	91,014	17,44	20	EPR	6	In contact	35	OK	0,68%			0,047
string	3 . 4 . 1 . 1	13	string box	SB 3 , 4 . 1 . 1	H1Z2Z2	TINNED COPPER	2x	1	x	6	51,37	56,507	113,014	17,44	20	EPR	6	In contact	35	OK	0,85%			0,058
string	3 . 4 . 1 . 1	14	string box	SB 3 , 4 . 1 . 1	H1Z2Z2	TINNED COPPER	2x	1	x	6	51,37	56,507	113,014	17,44	20	EPR	6	In contact	35	OK	0,85%			0,058
string box	SB 3 , 4 . 1 . 1		conversion unit	CU 4 ,	ARG70R	ALUMINIUM	2x	1	x	300	182,17	200,387	400,774	244,16	20	EPR	6	25	406,784	OK	1,13%			1,194589
																		MAX. VOLTAGE DROP			**1,98%**	**2%**	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 3 . 4 . 1 . 2 . 1	string box SB 3 , 4 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	61,37	67,507	135,014	17,44	20	EPR	6	In contact	35	OK	1,01%			0,070
string 3 . 4 . 1 . 2 2	string box SB 3 , 4 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	61,37	67,507	135,014	17,44	20	EPR	6	In contact	35	OK	1,01%			0,070
string 3 . 4 . 1 . 2 3	string box SB 3 , 4 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	51,37	56,507	113,014	17,44	20	EPR	6	In contact	35	OK	0,85%			0,058
string 3 . 4 . 1 . 2 4	string box SB 3 , 4 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	51,37	56,507	113,014	17,44	20	EPR	6	In contact	35	OK	0,85%			0,058
string 3 . 4 . 1 . 2 5	string box SB 3 , 4 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	41,37	45,507	91,014	17,44	20	EPR	6	In contact	35	OK	0,68%			0,047
string 3 . 4 . 1 . 2 6	string box SB 3 , 4 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	41,37	45,507	91,014	17,44	20	EPR	6	In contact	35	OK	0,68%			0,047
string 3 . 4 . 1 . 2 7	string box SB 3 , 4 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 3 . 4 . 1 . 2 8	string box SB 3 , 4 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 3 . 4 . 1 . 2 9	string box SB 3 , 4 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 3 . 4 . 1 . 2 10	string box SB 3 , 4 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 3 . 4 . 1 . 2 11	string box SB 3 , 4 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 3 . 4 . 1 . 2 12	string box SB 3 , 4 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 3 . 4 . 1 . 2 13	string box SB 3 , 4 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	41,37	45,507	91,014	17,44	20	EPR	6	In contact	35	OK	0,68%			0,047
string 3 . 4 . 1 . 2 14	string box SB 3 , 4 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	41,37	45,507	91,014	17,44	20	EPR	6	In contact	35	OK	0,68%			0,047
string 3 . 4 . 1 . 2 15	string box SB 3 , 4 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	56,37	62,007	124,014	17,44	20	EPR	6	In contact	35	OK	0,93%			0,064
string 3 . 4 . 1 . 2 16	string box SB 3 , 4 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	56,37	62,007	124,014	17,44	20	EPR	6	In contact	35	OK	0,93%			0,064
string 3 . 4 . 1 . 2 17	string box SB 3 , 4 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 10	83,15	91,465	182,93	17,44	20	EPR	6	In contact	47,5	OK	0,79%			0,054
string 3 . 4 . 1 . 2 18	string box SB 3 , 4 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 10	83,15	91,465	182,93	17,44	20	EPR	6	In contact	47,5	OK	0,79%			0,054
string 3 . 4 . 1 . 2 19	string box SB 3 , 4 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 16	104,85	115,335	230,67	17,44	20	EPR	6	In contact	65	OK	0,63%			0,043
string 3 . 4 . 1 . 2 20	string box SB 3 , 4 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 16	104,85	115,335	230,67	17,44	20	EPR	6	In contact	65	OK	0,63%			0,043
string box SB 3 , 4 . 1 . 2	conversion unit CU 4 ,	ARG70R	ALUMINIUM	2x 1 x 300	102,16	112,376	224,752	348,8	20	EPR	6	25	406,784	OK	0,91%			1,367183
														MAX. VOLTAGE DROP	**1,92%**	**2%**	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 3 . 4 . 1 . 3 . 1	string box SB 3 , 4 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	51,37	56,507	113,014	17,44	20	EPR	6	In contact	35	OK	0,85%			0,058
string 3 . 4 . 1 . 3 2	string box SB 3 , 4 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	51,37	56,507	113,014	17,44	20	EPR	6	In contact	35	OK	0,85%			0,058
string 3 . 4 . 1 . 3 3	string box SB 3 , 4 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	41,37	45,507	91,014	17,44	20	EPR	6	In contact	35	OK	0,68%			0,047
string 3 . 4 . 1 . 3 4	string box SB 3 , 4 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	41,37	45,507	91,014	17,44	20	EPR	6	In contact	35	OK	0,68%			0,047
string 3 . 4 . 1 . 3 5	string box SB 3 , 4 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 3 . 4 . 1 . 3 6	string box SB 3 , 4 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 3 . 4 . 1 . 3 7	string box SB 3 , 4 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 3 . 4 . 1 . 3 8	string box SB 3 , 4 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 3 . 4 . 1 . 3 9	string box SB 3 , 4 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 3 . 4 . 1 . 3 10	string box SB 3 , 4 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 3 . 4 . 1 . 3 11	string box SB 3 , 4 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	41,37	45,507	91,014	17,44	20	EPR	6	In contact	35	OK	0,68%			0,047
string 3 . 4 . 1 . 3 12	string box SB 3 , 4 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	41,37	45,507	91,014	17,44	20	EPR	6	In contact	35	OK	0,68%			0,047
string 3 . 4 . 1 . 3 13	string box SB 3 , 4 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	40,85	44,935	89,87	17,44	20	EPR	6	In contact	35	OK	0,67%			0,046
string 3 . 4 . 1 . 3 14	string box SB 3 , 4 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	50,85	55,935	111,87	17,44	20	EPR	6	In contact	35	OK	0,84%			0,058

string	3.4.1.3	15	string box	SB 3,4.1.3	H1Z2Z2	TINNED COPPER	2x	1	x	10	84,63	93,093	186,186	17,44	20	EPR	6	In contact	47,5	OK	0,80%			0,055
string	3.4.1.3	16	string box	SB 3,4.1.3	H1Z2Z2	TINNED COPPER	2x	1	x	10	84,63	93,093	186,186	17,44	20	EPR	6	In contact	47,5	OK	0,80%			0,055
string	3.4.1.3	17	string box	SB 3,4.1.3	H1Z2Z2	TINNED COPPER	2x	1	x	10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string	3.4.1.3	18	string box	SB 3,4.1.3	H1Z2Z2	TINNED COPPER	2x	1	x	10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string	3.4.1.3	19	string box	SB 3,4.1.3	H1Z2Z2	TINNED COPPER	2x	1	x	6	54,11	59,521	119,042	17,44	20	EPR	6	In contact	35	OK	0,89%			0,061
string	3.4.1.3	20	string box	SB 3,4.1.3	H1Z2Z2	TINNED COPPER	2x	1	x	6	64,11	59,521	119,042	17,44	20	EPR	6	In contact	35	OK	0,89%			0,061
string box	SB 3,4.1.3		conversion unit	CU 4,	ARG70R	ALUMINIUM	2x	2	x	240	159,87	175,857	703,428	348,8	20	EPR	6	25	370,048	OK	0,89%			1,337188
																					MAX. VOLTAGE DROP	**1,78%**	**2%**	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string	3.5.1.1.1	string box SB 3,5.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	32	35,2	70,4	17,44	20	EPR	6	In contact	35	OK	0,53%			0,036
string	3.5.1.1.2	string box SB 3,5.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	32	35,2	70,4	17,44	20	EPR	6	In contact	35	OK	0,53%			0,036
string	3.5.1.1.3	string box SB 3,5.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	22	24,2	48,4	17,44	20	EPR	6	In contact	35	OK	0,36%			0,025
string	3.5.1.1.4	string box SB 3,5.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	22	24,2	48,4	17,44	20	EPR	6	In contact	35	OK	0,36%			0,025
string	3.5.1.1.5	string box SB 3,5.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string	3.5.1.1.6	string box SB 3,5.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string	3.5.1.1.7	string box SB 3,5.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string	3.5.1.1.8	string box SB 3,5.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string	3.5.1.1.9	string box SB 3,5.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string	3.5.1.1.10	string box SB 3,5.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string	3.5.1.1.11	string box SB 3,5.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	54,63	60,093	120,186	17,44	20	EPR	6	In contact	47,5	OK	0,52%			0,036
string	3.5.1.1.12	string box SB 3,5.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	54,63	60,093	120,186	17,44	20	EPR	6	In contact	47,5	OK	0,52%			0,036
string box	SB 3,5.1.1	conversion unit	CU 5,	ARG70R	ALUMINIUM	2x 2 x 185	282,11	310,321	1241,284	209,28	20	EPR	6	25	313,6	OK	1,23%			1,114501
																	MAX. VOLTAGE DROP	**1,94%**	**2%**	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string	3.5.1.2.1	string box SB 3,5.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	61,91	68,101	136,202	17,44	20	EPR	6	In contact	47,5	OK	0,59%			0,040
string	3.5.1.2.2	string box SB 3,5.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	61,91	68,101	136,202	17,44	20	EPR	6	In contact	47,5	OK	0,59%			0,040
string	3.5.1.2.3	string box SB 3,5.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	51,91	57,101	114,202	17,44	20	EPR	6	In contact	35	OK	0,85%			0,059
string	3.5.1.2.4	string box SB 3,5.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	51,91	57,101	114,202	17,44	20	EPR	6	In contact	35	OK	0,85%			0,059
string	3.5.1.2.5	string box SB 3,5.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string	3.5.1.2.6	string box SB 3,5.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string	3.5.1.2.7	string box SB 3,5.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string	3.5.1.2.8	string box SB 3,5.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string	3.5.1.2.9	string box SB 3,5.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	64,63	71,093	142,186	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string	3.5.1.2.10	string box SB 3,5.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	64,63	71,093	142,186	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string	3.5.1.2.11	string box SB 3,5.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string	3.5.1.2.12	string box SB 3,5.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string	3.5.1.2.13	string box SB 3,5.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 16	107,89	118,679	237,358	17,44	20	EPR	6	In contact	65	OK	0,65%			0,045
string	3.5.1.2.14	string box SB 3,5.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 16	107,89	118,679	237,358	17,44	20	EPR	6	In contact	65	OK	0,65%			0,045
string	3.5.1.2.15	string box SB 3,5.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 16	117,89	129,679	259,358	17,44	20	EPR	6	In contact	65	OK	0,71%			0,049
string	3.5.1.2.16	string box SB 3,5.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 16	117,89	129,679	259,358	17,44	20	EPR	6	In contact	65	OK	0,71%			0,049
string box	SB 3,5.1.2	conversion unit	CU 5,	ARG70R	ALUMINIUM	2x 1 x 240	120,93	133,023	266,046	279,04	20	EPR	6	25	370,048	OK	1,07%			1,294702
																	MAX. VOLTAGE DROP	**1,93%**	**2%**	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 3.5.1.3.1	string box SB 3,5.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	71,37	78,507	157,014	17,44	20	EPR	6	In contact	47,5	OK	0,68%			0,047
string 3.5.1.3.2	string box SB 3,5.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	71,37	78,507	157,014	17,44	20	EPR	6	In contact	47,5	OK	0,68%			0,047
string 3.5.1.3.3	string box SB 3,5.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	61,37	67,507	135,014	17,44	20	EPR	6	In contact	47,5	OK	0,58%			0,040
string 3.5.1.3.4	string box SB 3,5.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	71,37	78,507	157,014	17,44	20	EPR	6	In contact	47,5	OK	0,68%			0,047
string 3.5.1.3.5	string box SB 3,5.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	61,37	67,507	135,014	17,44	20	EPR	6	In contact	47,5	OK	0,58%			0,040
string 3.5.1.3.6	string box SB 3,5.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	61,37	67,507	135,014	17,44	20	EPR	6	In contact	47,5	OK	0,58%			0,040
string 3.5.1.3.7	string box SB 3,5.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	51,37	56,507	113,014	17,44	20	EPR	6	In contact	35	OK	0,85%			0,058
string 3.5.1.3.8	string box SB 3,5.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	51,37	56,507	113,014	17,44	20	EPR	6	In contact	35	OK	0,85%			0,058
string 3.5.1.3.9	string box SB 3,5.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	41,37	45,507	91,014	17,44	20	EPR	6	In contact	35	OK	0,68%			0,047
string 3.5.1.3.10	string box SB 3,5.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	41,37	45,507	91,014	17,44	20	EPR	6	In contact	35	OK	0,68%			0,047
string 3.5.1.3.11	string box SB 3,5.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 3.5.1.3.12	string box SB 3,5.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 3.5.1.3.13	string box SB 3,5.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 3.5.1.3.14	string box SB 3,5.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 3.5.1.3.15	string box SB 3,5.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 3.5.1.3.16	string box SB 3,5.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 3.5.1.3.17	string box SB 3,5.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	41,37	45,507	91,014	17,44	20	EPR	6	In contact	35	OK	0,68%			0,047
string 3.5.1.3.18	string box SB 3,5.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	41,37	45,507	91,014	17,44	20	EPR	6	In contact	35	OK	0,68%			0,047
string 3.5.1.3.19	string box SB 3,5.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	51,37	56,507	113,014	17,44	20	EPR	6	In contact	35	OK	0,85%			0,058
string 3.5.1.3.20	string box SB 3,5.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	51,37	56,507	113,014	17,44	20	EPR	6	In contact	35	OK	0,85%			0,058
string box SB 3,5.1.3	conversion unit CU 5,	ARG70R	ALUMINIUM	2x 2 x 240	181,62	199,782	799,128	348,8	20	EPR	6	25	370,048	OK	1,01%			1,51911
														MAX. VOLTAGE DROP	1,85%	2%	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 3.5.2.1.1	string box SB 3,5.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	84,63	93,093	186,186	17,44	20	EPR	6	In contact	47,5	OK	0,80%			0,055
string 3.5.2.1.2	string box SB 3,5.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	84,63	93,093	186,186	17,44	20	EPR	6	In contact	47,5	OK	0,80%			0,055
string 3.5.2.1.3	string box SB 3,5.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string 3.5.2.1.4	string box SB 3,5.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string 3.5.2.1.5	string box SB 3,5.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	64,53	70,983	141,966	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string 3.5.2.1.6	string box SB 3,5.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	64,53	70,983	141,966	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string 3.5.2.1.7	string box SB 3,5.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string 3.5.2.1.8	string box SB 3,5.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string 3.5.2.1.9	string box SB 3,5.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	84,63	93,093	186,186	17,44	20	EPR	6	In contact	47,5	OK	0,80%			0,055
string 3.5.2.1.10	string box SB 3,5.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	84,63	93,093	186,186	17,44	20	EPR	6	In contact	47,5	OK	0,80%			0,055
string 3.5.2.1.11	string box SB 3,5.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	41,37	45,507	91,014	17,44	20	EPR	6	In contact	35	OK	0,68%			0,047
string 3.5.2.1.12	string box SB 3,5.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	41,37	45,507	91,014	17,44	20	EPR	6	In contact	35	OK	0,68%			0,047
string 3.5.2.1.13	string box SB 3,5.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 3.5.2.1.14	string box SB 3,5.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 3.5.2.1.15	string box SB 3,5.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 3.5.2.1.16	string box SB 3,5.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 3.5.2.1.17	string box SB 3,5.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 3.5.2.1.18	string box SB 3,5.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 3.5.2.1.19	string box SB 3,5.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	41,37	45,507	91,014	17,44	20	EPR	6	In contact	35	OK	0,68%			0,047
string 3.5.2.1.20	string box SB 3,5.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	41,37	45,507	91,014	17,44	20	EPR	6	In contact	35	OK	0,68%			0,047
string box SB 3,5.2.1	conversion unit CU 5,	ARG70R	ALUMINIUM	2x 1 x 240	80,93	89,023	178,046	348,8	20	EPR	6	25	370,048	OK	0,90%			1,353833
														MAX. VOLTAGE DROP	1,70%	2%	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 3.5.2.2.1	string box SB 3,5.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	84,63	93,093	186,186	17,44	20	EPR	6	In contact	47,5	OK	0,80%			0,055
string 3.5.2.2.2	string box SB 3,5.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	84,63	93,093	186,186	17,44	20	EPR	6	In contact	47,5	OK	0,80%			0,055
string 3.5.2.2.3	string box SB 3,5.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string 3.5.2.2.4	string box SB 3,5.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string 3.5.2.2.5	string box SB 3,5.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	64,53	70,983	141,966	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string 3.5.2.2.6	string box SB 3,5.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	64,53	70,983	141,966	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string 3.5.2.2.7	string box SB 3,5.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string 3.5.2.2.8	string box SB 3,5.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string 3.5.2.2.9	string box SB 3,5.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	84,63	93,093	186,186	17,44	20	EPR	6	In contact	47,5	OK	0,80%			0,055
string 3.5.2.2.10	string box SB 3,5.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	84,63	93,093	186,186	17,44	20	EPR	6	In contact	47,5	OK	0,80%			0,055
string 3.5.2.2.11	string box SB 3,5.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	41,37	45,507	91,014	17,44	20	EPR	6	In contact	35	OK	0,68%			0,047
string 3.5.2.2.12	string box SB 3,5.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	41,37	45,507	91,014	17,44	20	EPR	6	In contact	35	OK	0,68%			0,047
string 3.5.2.2.13	string box SB 3,5.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 3.5.2.2.14	string box SB 3,5.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 3.5.2.2.15	string box SB 3,5.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 3.5.2.2.16	string box SB 3,5.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 3.5.2.2.17	string box SB 3,5.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 3.5.2.2.18	string box SB 3,5.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 3.5.2.2.19	string box SB 3,5.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	41,37	45,507	91,014	17,44	20	EPR	6	In contact	35	OK	0,68%			0,047
string 3.5.2.2.20	string box SB 3,5.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	41,37	45,507	91,014	17,44	20	EPR	6	In contact	35	OK	0,68%			0,047
string box SB 3,5.2.2	conversion unit CU 5,	ARG70R	ALUMINIUM	2x 1 x 240	30,93	34,023	68,046	348,8	20	EPR	6	25	370,048	OK	0,34%			0,517411
													MAX. VOLTAGE DROP		1,14%	2%	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 3.5.2.3.1	string box SB 3,5.2.3	H1Z2Z2	TINNED COPPER	2x 1 x 16	117,89	129,679	259,358	17,44	20	EPR	6	In contact	65	OK	0,71%			0,049
string 3.5.2.3.2	string box SB 3,5.2.3	H1Z2Z2	TINNED COPPER	2x 1 x 16	117,89	129,679	259,358	17,44	20	EPR	6	In contact	65	OK	0,71%			0,049
string 3.5.2.3.3	string box SB 3,5.2.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	107,89	118,679	237,358	17,44	20	EPR	6	In contact	47,5	OK	1,02%			0,070
string 3.5.2.3.4	string box SB 3,5.2.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	107,89	118,679	237,358	17,44	20	EPR	6	In contact	47,5	OK	1,02%			0,070
string 3.5.2.3.5	string box SB 3,5.2.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	102,68	112,948	225,896	17,44	20	EPR	6	In contact	47,5	OK	0,97%			0,067
string 3.5.2.3.6	string box SB 3,5.2.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	102,68	112,948	225,896	17,44	20	EPR	6	In contact	47,5	OK	0,97%			0,067
string 3.5.2.3.7	string box SB 3,5.2.3	H1Z2Z2	TINNED COPPER	2x 1 x 16	112,64	123,904	247,808	17,44	20	EPR	6	In contact	65	OK	0,68%			0,047
string 3.5.2.3.8	string box SB 3,5.2.3	H1Z2Z2	TINNED COPPER	2x 1 x 16	112,64	123,904	247,808	17,44	20	EPR	6	In contact	65	OK	0,68%			0,047
string 3.5.2.3.9	string box SB 3,5.2.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	74,63	82,093	164,186	17,44	20	EPR	6	In contact	35	OK	1,23%			0,085
string 3.5.2.3.10	string box SB 3,5.2.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	74,63	82,093	164,186	17,44	20	EPR	6	In contact	35	OK	1,23%			0,085
string 3.5.2.3.11	string box SB 3,5.2.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	64,63	71,093	142,186	17,44	20	EPR	6	In contact	35	OK	1,06%			0,073
string 3.5.2.3.12	string box SB 3,5.2.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	64,63	71,093	142,186	17,44	20	EPR	6	In contact	35	OK	1,06%			0,073
string 3.5.2.3.13	string box SB 3,5.2.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	59,42	65,362	130,724	17,44	20	EPR	6	In contact	35	OK	0,98%			0,067
string 3.5.2.3.14	string box SB 3,5.2.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	59,52	65,472	130,944	17,44	20	EPR	6	In contact	35	OK	0,98%			0,068
string 3.5.2.3.15	string box SB 3,5.2.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 3.5.2.3.16	string box SB 3,5.2.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 3.5.2.3.17	string box SB 3,5.2.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 3.5.2.3.18	string box SB 3,5.2.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 3.5.2.3.19	string box SB 3,5.2.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	14,68	16,148	32,296	17,44	20	EPR	6	In contact	35	OK	0,24%			0,017
string 3.5.2.3.20	string box SB 3,5.2.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	14,68	16,148	32,296	17,44	20	EPR	6	In contact	35	OK	0,24%			0,017
string box SB 3,5.2.3	conversion unit CU 5,	ARG70R	ALUMINIUM	2x 1 x 185	19,79	21,769	43,538	348,8	20	EPR	1	In contact	448	OK	0,29%			0,434345
													MAX. VOLTAGE DROP		1,52%	2%	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 3.6.1.1.1	string box SB 3,6.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 16	97,37	107,107	214,214	17,44	20	EPR	6	In contact	65	OK	0,59%			0,040
string 3.6.1.1.2	string box SB 3,6.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 16	117,89	129,679	259,358	17,44	20	EPR	6	In contact	65	OK	0,71%			0,049
string 3.6.1.1.3	string box SB 3,6.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 16	117,89	129,679	259,358	17,44	20	EPR	6	In contact	65	OK	0,71%			0,049
string 3.6.1.1.4	string box SB 3,6.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	64,63	71,093	142,186	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string 3.6.1.1.5	string box SB 3,6.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	64,63	71,093	142,186	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string 3.6.1.1.6	string box SB 3,6.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string 3.6.1.1.7	string box SB 3,6.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string 3.6.1.1.8	string box SB 3,6.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 3.6.1.1.9	string box SB 3,6.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 3.6.1.1.10	string box SB 3,6.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 3.6.1.1.11	string box SB 3,6.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 3.6.1.1.12	string box SB 3,6.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 3.6.1.1.13	string box SB 3,6.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 3.6.1.1.14	string box SB 3,6.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	22	24,2	48,4	17,44	20	EPR	6	In contact	35	OK	0,36%			0,025
string 3.6.1.1.15	string box SB 3,6.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	22	24,2	48,4	17,44	20	EPR	6	In contact	35	OK	0,36%			0,025
string box SB 3.6.1.1	conversion unit CU 6.	ARG70R	ALUMINIUM	2x 1 x 300	192,36	211,596	423,192	261,6	20	EPR	6	25	406,784	OK	1,28%			1,448048
														MAX. VOLTAGE DROP	1,99%	2%	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 3.6.1.2.1	string box SB 3,6.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 16	117,89	129,679	259,358	17,44	20	EPR	6	In contact	65	OK	0,71%			0,049
string 3.6.1.2.2	string box SB 3,6.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 16	117,89	129,679	259,358	17,44	20	EPR	6	In contact	65	OK	0,71%			0,049
string 3.6.1.2.3	string box SB 3,6.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 16	107,89	118,679	237,358	17,44	20	EPR	6	In contact	65	OK	0,65%			0,045
string 3.6.1.2.4	string box SB 3,6.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 16	107,89	118,679	237,358	17,44	20	EPR	6	In contact	65	OK	0,65%			0,045
string 3.6.1.2.5	string box SB 3,6.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 16	117,89	129,679	259,358	17,44	20	EPR	6	In contact	65	OK	0,71%			0,049
string 3.6.1.2.6	string box SB 3,6.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 16	117,89	129,679	259,358	17,44	20	EPR	6	In contact	65	OK	0,71%			0,049
string 3.6.1.2.7	string box SB 3,6.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string 3.6.1.2.8	string box SB 3,6.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string 3.6.1.2.9	string box SB 3,6.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	64,53	70,983	141,966	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string 3.6.1.2.10	string box SB 3,6.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	64,53	70,983	141,966	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string 3.6.1.2.11	string box SB 3,6.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string 3.6.1.2.12	string box SB 3,6.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string 3.6.1.2.13	string box SB 3,6.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 3.6.1.2.14	string box SB 3,6.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 3.6.1.2.15	string box SB 3,6.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 3.6.1.2.16	string box SB 3,6.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 3.6.1.2.17	string box SB 3,6.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 3.6.1.2.18	string box SB 3,6.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 3.6.1.2.19	string box SB 3,6.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	41,37	45,507	91,014	17,44	20	EPR	6	In contact	35	OK	0,68%			0,047
string 3.6.1.2.20	string box SB 3,6.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	41,37	45,507	91,014	17,44	20	EPR	6	In contact	35	OK	0,68%			0,047
string box SB 3.6.1.2	conversion unit CU 6.	ARG70R	ALUMINIUM	2x 2 x 240	162,36	178,596	714,384	348,8	20	EPR	6	25	370,048	OK	0,90%			1,358015
														MAX. VOLTAGE DROP	1,61%	2%	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 3.6.1.3.1	string box SB 3,6.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	22,91	25,201	50,402	17,44	20	EPR	6	In contact	35	OK	0,38%			0,026
string 3.6.1.3.2	string box SB 3,6.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	22,91	25,201	50,402	17,44	20	EPR	6	In contact	35	OK	0,38%			0,026
string 3.6.1.3.3	string box SB 3,6.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	23,43	25,773	51,546	17,44	20	EPR	6	In contact	35	OK	0,39%			0,027
string 3.6.1.3.4	string box SB 3,6.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 3.6.1.3.5	string box SB 3,6.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 3.6.1.3.6	string box SB 3,6.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 3.6.1.3.7	string box SB 3,6.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 3.6.1.3.8	string box SB 3,6.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	30,68	33,748	67,496	17,44	20	EPR	6	In contact	35	OK	0,50%			0,035
string 3.6.1.3.9	string box SB 3,6.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	66,17	72,787	145,574	17,44	20	EPR	6	In contact	47,5	OK	0,63%			0,043
string 3.6.1.3.10	string box SB 3,6.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	66,17	72,787	145,574	17,44	20	EPR	6	In contact	47,5	OK	0,63%			0,043
string 3.6.1.3.11	string box SB 3,6.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	56,17	61,787	123,574	17,44	20	EPR	6	In contact	35	OK	0,92%			0,064
string 3.6.1.3.12	string box SB 3,6.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	56,17	61,787	123,574	17,44	20	EPR	6	In contact	35	OK	0,92%			0,064
string 3.6.1.3.13	string box SB 3,6.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	99,43	109,373	218,746	17,44	20	EPR	6	In contact	47,5	OK	0,94%			0,065
string 3.6.1.3.14	string box SB 3,6.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	99,43	109,373	218,746	17,44	20	EPR	6	In contact	47,5	OK	0,94%			0,065
string box SB 3.6.1.3	conversion unit CU 6.	ARG70R	ALUMINIUM	2x 2 x 240	246,95	271,645	1086,58	244,16	20	EPR	6	25	370,048	OK	0,96%			1,012117
														MAX. VOLTAGE DROP	1,90%	2%	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 3.6.2.1.1	string box SB 3,6.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 16	117,89	129,679	259,358	17,44	20	EPR	6	In contact	65	OK	0,71%			0,049
string 3.6.2.1.2	string box SB 3,6.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 16	117,89	129,679	259,358	17,44	20	EPR	6	In contact	65	OK	0,71%			0,049
string 3.6.2.1.3	string box SB 3,6.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 16	127,89	140,679	281,358	17,44	20	EPR	6	In contact	65	OK	0,77%			0,053
string 3.6.2.1.4	string box SB 3,6.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 16	127,89	140,679	281,358	17,44	20	EPR	6	In contact	65	OK	0,77%			0,053
string 3.6.2.1.5	string box SB 3,6.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	54,11	59,521	119,042	17,44	20	EPR	6	In contact	47,5	OK	0,51%			0,035
string 3.6.2.1.6	string box SB 3,6.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string 3.6.2.1.7	string box SB 3,6.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string 3.6.2.1.8	string box SB 3,6.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	84,63	93,093	186,186	17,44	20	EPR	6	In contact	47,5	OK	0,80%			0,055
string 3.6.2.1.9	string box SB 3,6.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	84,63	93,093	186,186	17,44	20	EPR	6	In contact	47,5	OK	0,80%			0,055
string 3.6.2.1.10	string box SB 3,6.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 3.6.2.1.11	string box SB 3,6.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 3.6.2.1.12	string box SB 3,6.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 3.6.2.1.13	string box SB 3,6.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 3.6.2.1.14	string box SB 3,6.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	41,37	45,507	91,014	17,44	20	EPR	6	In contact	35	OK	0,68%			0,047
string 3.6.2.1.15	string box SB 3,6.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	41,37	45,507	91,014	17,44	20	EPR	6	In contact	35	OK	0,68%			0,047
string 3.6.2.1.16	string box SB 3,6.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	32	35,2	70,4	17,44	20	EPR	6	In contact	35	OK	0,53%			0,036
string 3.6.2.1.17	string box SB 3,6.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	32	35,2	70,4	17,44	20	EPR	6	In contact	35	OK	0,53%			0,036
string 3.6.2.1.18	string box SB 3,6.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	22	24,2	48,4	17,44	20	EPR	6	In contact	35	OK	0,36%			0,025
string 3.6.2.1.19	string box SB 3,6.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	22	24,2	48,4	17,44	20	EPR	6	In contact	35	OK	0,36%			0,025
string box SB 3.6.2.1	conversion unit CU 6.	ARG70R	ALUMINIUM	2x 1 x 240	110,78	121,858	243,716	331,36	20	EPR	6	25	370,048	OK	1,17%			1,672493
														MAX. VOLTAGE DROP	1,97%	2%	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 3.6.2.2.1	string box SB 3,6.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 16	117,89	129,679	259,358	17,44	20	EPR	6	In contact	65	OK	0,71%			0,049

string	3	.	6	.	2	.	2	string box	SB	3	,	6	.	2	.	2	H1Z2Z2	TINNED COPPER	2x	1	x	16	117,89	129,679	259,358	17,44	20	EPR	6	In contact	65	OK	0,71%			0,049
string	3	.	6	.	2	.	3	string box	SB	3	,	6	.	2	.	2	H1Z2Z2	TINNED COPPER	2x	1	x	16	107,89	118,679	237,358	17,44	20	EPR	6	In contact	65	OK	0,65%			0,045
string	3	.	6	.	2	.	4	string box	SB	3	,	6	.	2	.	2	H1Z2Z2	TINNED COPPER	2x	1	x	16	107,89	118,679	237,358	17,44	20	EPR	6	In contact	65	OK	0,65%			0,045
string	3	.	6	.	2	.	5	string box	SB	3	,	6	.	2	.	2	H1Z2Z2	TINNED COPPER	2x	1	x	16	117,89	129,679	259,358	17,44	20	EPR	6	In contact	65	OK	0,71%			0,049
string	3	.	6	.	2	.	6	string box	SB	3	,	6	.	2	.	2	H1Z2Z2	TINNED COPPER	2x	1	x	16	117,89	129,679	259,358	17,44	20	EPR	6	In contact	65	OK	0,71%			0,049
string	3	.	6	.	2	.	7	string box	SB	3	,	6	.	2	.	2	H1Z2Z2	TINNED COPPER	2x	1	x	10	84,63	93,093	186,186	17,44	20	EPR	6	In contact	47,5	OK	0,80%			0,055
string	3	.	6	.	2	.	8	string box	SB	3	,	6	.	2	.	2	H1Z2Z2	TINNED COPPER	2x	1	x	10	84,63	93,093	186,186	17,44	20	EPR	6	In contact	47,5	OK	0,80%			0,055
string	3	.	6	.	2	.	9	string box	SB	3	,	6	.	2	.	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	74,63	82,093	164,186	17,44	20	EPR	6	In contact	35	OK	1,23%			0,085
string	3	.	6	.	2	.	10	string box	SB	3	,	6	.	2	.	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	74,63	82,093	164,186	17,44	20	EPR	6	In contact	35	OK	1,23%			0,085
string	3	.	6	.	2	.	11	string box	SB	3	,	6	.	2	.	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	64,63	71,093	142,186	17,44	20	EPR	6	In contact	35	OK	1,06%			0,073
string	3	.	6	.	2	.	12	string box	SB	3	,	6	.	2	.	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	64,63	71,093	142,186	17,44	20	EPR	6	In contact	35	OK	1,06%			0,073
string	3	.	6	.	2	.	13	string box	SB	3	,	6	.	2	.	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	74,63	82,093	164,186	17,44	20	EPR	6	In contact	35	OK	1,23%			0,085
string	3	.	6	.	2	.	14	string box	SB	3	,	6	.	2	.	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	74,63	82,093	164,186	17,44	20	EPR	6	In contact	35	OK	1,23%			0,085
string	3	.	6	.	2	.	15	string box	SB	3	,	6	.	2	.	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	41,37	45,507	91,014	17,44	20	EPR	6	In contact	35	OK	0,68%			0,047
string	3	.	6	.	2	.	16	string box	SB	3	,	6	.	2	.	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	41,37	45,507	91,014	17,44	20	EPR	6	In contact	35	OK	0,68%			0,047
string	3	.	6	.	2	.	17	string box	SB	3	,	6	.	2	.	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string	3	.	6	.	2	.	18	string box	SB	3	,	6	.	2	.	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string	3	.	6	.	2	.	19	string box	SB	3	,	6	.	2	.	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string	3	.	6	.	2	.	20	string box	SB	3	,	6	.	2	.	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string box	SB	3	.	6	.	2	.	2	conversion unit	CU		6		.			ARG70R	ALUMINIUM	2x	1	x	240	60,78	66,858	133,716	348,8	20	EPR	6	25	370,048	OK	0,68%			1,016755
																														MAX. VOLTAGE DROP			1,90%	2%	OK	

From		To		Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string	3 . 6 . 2 . 3 . 1	string box	SB 3 , 6 . 2 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 16	117,89	129,679	259,358	17,44	20	EPR	6	In contact	65	OK	0,71%			0,049
string	3 . 6 . 2 . 3 . 2	string box	SB 3 , 6 . 2 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 16	117,89	129,679	259,358	17,44	20	EPR	6	In contact	65	OK	0,71%			0,049
string	3 . 6 . 2 . 3 . 3	string box	SB 3 , 6 . 2 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 10	107,89	118,679	237,358	17,44	20	EPR	6	In contact	47,5	OK	1,02%			0,070
string	3 . 6 . 2 . 3 . 4	string box	SB 3 , 6 . 2 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 10	107,89	118,679	237,358	17,44	20	EPR	6	In contact	47,5	OK	1,02%			0,070
string	3 . 6 . 2 . 3 . 5	string box	SB 3 , 6 . 2 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 16	117,89	129,679	259,358	17,44	20	EPR	6	In contact	65	OK	0,71%			0,049
string	3 . 6 . 2 . 3 . 6	string box	SB 3 , 6 . 2 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 16	117,89	129,679	259,358	17,44	20	EPR	6	In contact	65	OK	0,71%			0,049
string	3 . 6 . 2 . 3 . 7	string box	SB 3 , 6 . 2 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	74,63	82,093	164,186	17,44	20	EPR	6	In contact	35	OK	1,23%			0,085
string	3 . 6 . 2 . 3 . 8	string box	SB 3 , 6 . 2 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	74,63	82,093	164,186	17,44	20	EPR	6	In contact	35	OK	1,23%			0,085
string	3 . 6 . 2 . 3 . 9	string box	SB 3 , 6 . 2 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	64,63	71,093	142,186	17,44	20	EPR	6	In contact	35	OK	1,06%			0,073
string	3 . 6 . 2 . 3 . 10	string box	SB 3 , 6 . 2 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	64,63	71,093	142,186	17,44	20	EPR	6	In contact	35	OK	1,06%			0,073
string	3 . 6 . 2 . 3 . 11	string box	SB 3 , 6 . 2 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	74,63	82,093	164,186	17,44	20	EPR	6	In contact	35	OK	1,23%			0,085
string	3 . 6 . 2 . 3 . 12	string box	SB 3 , 6 . 2 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	74,63	82,093	164,186	17,44	20	EPR	6	In contact	35	OK	1,23%			0,085
string	3 . 6 . 2 . 3 . 13	string box	SB 3 , 6 . 2 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	41,37	45,507	91,014	17,44	20	EPR	6	In contact	35	OK	0,68%			0,047
string	3 . 6 . 2 . 3 . 14	string box	SB 3 , 6 . 2 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	41,37	45,507	91,014	17,44	20	EPR	6	In contact	35	OK	0,68%			0,047
string	3 . 6 . 2 . 3 . 15	string box	SB 3 , 6 . 2 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string	3 . 6 . 2 . 3 . 16	string box	SB 3 , 6 . 2 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string	3 . 6 . 2 . 3 . 17	string box	SB 3 , 6 . 2 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string	3 . 6 . 2 . 3 . 18	string box	SB 3 , 6 . 2 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string	3 . 6 . 2 . 3 . 19	string box	SB 3 , 6 . 2 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string	3 . 6 . 2 . 3 . 20	string box	SB 3 , 6 . 2 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string box	SB 3 . 6 . 2 . 2	conversion unit	CU 6 .	ARG70R	ALUMINIUM	2x 1 x 240	30,78	33,858	67,716	348,8	20	EPR	6	25	370,048	OK	0,34%			0,514902
																MAX. VOLTAGE DROP		1,57%	2%	OK	

From		To		Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string	3 . 7 . 1 . 1 . 1	string box	SB 3 , 7 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 10	46,64	51,304	102,608	17,44	20	EPR	6	In contact	47,5	OK	0,44%			0,030
string	3 . 7 . 1 . 1 . 2	string box	SB 3 , 7 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 10	46,64	51,304	102,608	17,44	20	EPR	6	In contact	47,5	OK	0,44%			0,030
string	3 . 7 . 1 . 1 . 3	string box	SB 3 , 7 . 1 . 1	H1Z2Z2	TINNED COPPER	2x 1 x 10	42	46,2	92,4	17,44	20	EPR	6	In contact	47,5	OK	0,40%			0,027

string	3	.	7	.	1	.	4	string box	SB	3	,	7	.	1	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	10	42	46,2	92,4	17,44	20	EPR	6	In contact	47,5	OK	0,40%			0,027
string	3	.	7	.	1	.	5	string box	SB	3	,	7	.	1	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	32	35,2	70,4	17,44	20	EPR	6	In contact	35	OK	0,53%			0,036
string	3	.	7	.	1	.	6	string box	SB	3	,	7	.	1	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	32	35,2	70,4	17,44	20	EPR	6	In contact	35	OK	0,53%			0,036
string	3	.	7	.	1	.	7	string box	SB	3	,	7	.	1	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string	3	.	7	.	1	.	8	string box	SB	3	,	7	.	1	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string	3	.	7	.	1	.	9	string box	SB	3	,	7	.	1	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	10	64,63	71,093	142,186	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string	3	.	7	.	1	.	10	string box	SB	3	,	7	.	1	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	10	64,63	71,093	142,186	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string	3	.	7	.	1	.	11	string box	SB	3	,	7	.	1	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	30,69	33,759	67,518	17,44	20	EPR	6	In contact	35	OK	0,51%			0,035
string	3	.	7	.	1	.	12	string box	SB	3	,	7	.	1	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	20,69	22,759	45,518	17,44	20	EPR	6	In contact	35	OK	0,34%			0,023
string	3	.	7	.	1	.	13	string box	SB	3	,	7	.	1	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string	3	.	7	.	1	.	14	string box	SB	3	,	7	.	1	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string box	SB	3	.	7	.	1	.	1	conversion unit	CU		7	.				ARG70R	ALUMINIUM	2x	1	x	300	206,72	227,392	454,784	244,16	20	EPR	6	25	406,784	OK	1,29%			1,355577
																													MAX. VOLTAGE DROP			**1,90%**	**2%**	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 3 . 7 . 1 . 2 . 1	string box SB 3 , 7 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string 3 . 7 . 1 . 2 2	string box SB 3 , 7 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string 3 . 7 . 1 . 2 3	string box SB 3 , 7 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 10	64,63	71,093	142,186	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string 3 . 7 . 1 . 2 4	string box SB 3 , 7 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 10	64,63	71,093	142,186	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string 3 . 7 . 1 . 2 5	string box SB 3 , 7 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string 3 . 7 . 1 . 2 6	string box SB 3 , 7 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string 3 . 7 . 1 . 2 7	string box SB 3 , 7 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 3 . 7 . 1 . 2 8	string box SB 3 , 7 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 3 . 7 . 1 . 2 9	string box SB 3 , 7 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 3 . 7 . 1 . 2 10	string box SB 3 , 7 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 3 . 7 . 1 . 2 11	string box SB 3 , 7 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 3 . 7 . 1 . 2 12	string box SB 3 , 7 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 3 . 7 . 1 . 2 13	string box SB 3 , 7 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	32	35,2	70,4	17,44	20	EPR	6	In contact	35	OK	0,53%			0,036
string 3 . 7 . 1 . 2 14	string box SB 3 , 7 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	32	35,2	70,4	17,44	20	EPR	6	In contact	35	OK	0,53%			0,036
string 3 . 7 . 1 . 2 15	string box SB 3 , 7 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	22	24,2	48,4	17,44	20	EPR	6	In contact	35	OK	0,36%			0,025
string 3 . 7 . 1 . 2 16	string box SB 3 , 7 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	22	24,2	48,4	17,44	20	EPR	6	In contact	35	OK	0,36%			0,025
string 3 . 7 . 1 . 2 17	string box SB 3 , 7 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	32	35,2	70,4	17,44	20	EPR	6	In contact	35	OK	0,53%			0,036
string 3 . 7 . 1 . 2 18	string box SB 3 , 7 . 1 . 2	H1Z2Z2	TINNED COPPER	2x 1 x 6	32	35,2	70,4	17,44	20	EPR	6	In contact	35	OK	0,53%			0,036
string box SB 3 . 7 . 1 . 2	conversion unit CU 7 .	ARG70R	ALUMINIUM	2x 2 x 240	186,72	205,392	821,568	313,92	20	EPR	6	25	370,048	OK	0,93%			1,265032
												MAX. VOLTAGE DROP			**1,64%**	**2%**	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 3 . 7 . 1 . 3 . 1	string box SB 3 , 7 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string 3 . 7 . 1 . 3 2	string box SB 3 , 7 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string 3 . 7 . 1 . 3 3	string box SB 3 , 7 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	64,63	71,093	142,186	17,44	20	EPR	6	In contact	35	OK	1,06%			0,073
string 3 . 7 . 1 . 3 4	string box SB 3 , 7 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	64,63	71,093	142,186	17,44	20	EPR	6	In contact	35	OK	1,06%			0,073
string 3 . 7 . 1 . 3 5	string box SB 3 , 7 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string 3 . 7 . 1 . 3 6	string box SB 3 , 7 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string 3 . 7 . 1 . 3 7	string box SB 3 , 7 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 3 . 7 . 1 . 3 8	string box SB 3 , 7 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 3 . 7 . 1 . 3 9	string box SB 3 , 7 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 3 . 7 . 1 . 3 10	string box SB 3 , 7 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 3 . 7 . 1 . 3 11	string box SB 3 , 7 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 3 . 7 . 1 . 3 12	string box SB 3 , 7 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 3 . 7 . 1 . 3 13	string box SB 3 , 7 . 1 . 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	32	35,2	70,4	17,44	20	EPR	6	In contact	35	OK	0,53%			0,036

string	3	7	1	3	14	string box	SB	3	7	1	3	H1Z2Z2	TINNED COPPER	2x	1	x	6	32	35,2	70,4	17,44	20	EPR	6	In contact	35	OK	0,53%			0,036
string	3	7	1	3	15	string box	SB	3	7	1	3	H1Z2Z2	TINNED COPPER	2x	1	x	6	22	24,2	48,4	17,44	20	EPR	6	In contact	35	OK	0,36%			0,025
string	3	7	1	3	16	string box	SB	3	7	1	3	H1Z2Z2	TINNED COPPER	2x	1	x	6	22	24,2	48,4	17,44	20	EPR	6	In contact	35	OK	0,36%			0,025
string	3	7	1	3	17	string box	SB	3	7	1	3	H1Z2Z2	TINNED COPPER	2x	1	x	6	64,74	71,214	142,428	17,44	20	EPR	6	In contact	35	OK	1,07%			0,073
string	3	7	1	3	18	string box	SB	3	7	1	3	H1Z2Z2	TINNED COPPER	2x	1	x	6	54,74	60,214	120,428	17,44	20	EPR	6	In contact	35	OK	0,90%			0,062
string box	SB	3	7	1	3	conversion unit	CU		7			ARG70R	ALUMINIUM	2x	2	x	240	156,72	172,392	689,568	313,92	20	EPR	6	25	370,048	OK	0,78%			1,061781
																												MAX. VOLTAGE DROP	**1,85%**	**2%**	OK	

From						To						Cable code	Type of cable	Formation				Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string	3	7	2	1	1	string box	SB	3	7	2	1	H1Z2Z2	TINNED COPPER	2x	1	x	10	64,63	71,093	142,186	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string	3	7	2	1	2	string box	SB	3	7	2	1	H1Z2Z2	TINNED COPPER	2x	1	x	10	64,63	71,093	142,186	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string	3	7	2	1	3	string box	SB	3	7	2	1	H1Z2Z2	TINNED COPPER	2x	1	x	10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string	3	7	2	1	4	string box	SB	3	7	2	1	H1Z2Z2	TINNED COPPER	2x	1	x	10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string	3	7	2	1	5	string box	SB	3	7	2	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string	3	7	2	1	6	string box	SB	3	7	2	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string	3	7	2	1	7	string box	SB	3	7	2	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string	3	7	2	1	8	string box	SB	3	7	2	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string	3	7	2	1	9	string box	SB	3	7	2	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	31,95	35,145	70,29	17,44	20	EPR	6	In contact	35	OK	0,53%			0,036
string	3	7	2	1	10	string box	SB	3	7	2	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	31,95	35,145	70,29	17,44	20	EPR	6	In contact	35	OK	0,53%			0,036
string	3	7	2	1	11	string box	SB	3	7	2	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	21,95	24,145	48,29	17,44	20	EPR	6	In contact	35	OK	0,36%			0,025
string	3	7	2	1	12	string box	SB	3	7	2	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	21,95	24,145	48,29	17,44	20	EPR	6	In contact	35	OK	0,36%			0,025
string	3	7	2	1	13	string box	SB	3	7	2	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	31,95	35,145	70,29	17,44	20	EPR	6	In contact	35	OK	0,53%			0,036
string	3	7	2	1	14	string box	SB	3	7	2	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	31,95	35,145	70,29	17,44	20	EPR	6	In contact	35	OK	0,53%			0,036
string	3	7	2	1	15	string box	SB	3	7	2	1	H1Z2Z2	TINNED COPPER	2x	1	x	10	75,26	82,786	165,572	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string	3	7	2	1	16	string box	SB	3	7	2	1	H1Z2Z2	TINNED COPPER	2x	1	x	10	75,26	82,786	165,572	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string	3	7	2	1	17	string box	SB	3	7	2	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	65,26	71,786	143,572	17,44	20	EPR	6	In contact	35	OK	1,07%			0,074
string	3	7	2	1	18	string box	SB	3	7	2	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	65,26	71,786	143,572	17,44	20	EPR	6	In contact	35	OK	1,07%			0,074
string	3	7	2	1	19	string box	SB	3	7	2	1	H1Z2Z2	TINNED COPPER	2x	1	x	10	75,26	82,786	165,572	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string	3	7	2	1	20	string box	SB	3	7	2	1	H1Z2Z2	TINNED COPPER	2x	1	x	10	75,26	82,786	165,572	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string box	SB	3	7	2	1	conversion unit	CU		7			ARG70R	ALUMINIUM	2x	2	x	240	136,72	150,392	601,568	348,8	20	EPR	6	25	370,048	OK	0,76%			1,143557
																												MAX. VOLTAGE DROP	**1,83%**	**2%**	OK	

From						To						Cable code	Type of cable	Formation				Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string	3	7	2	2	1	string box	SB	3	7	2	2	H1Z2Z2	TINNED COPPER	2x	1	x	10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string	3	7	2	2	2	string box	SB	3	7	2	2	H1Z2Z2	TINNED COPPER	2x	1	x	10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string	3	7	2	2	3	string box	SB	3	7	2	2	H1Z2Z2	TINNED COPPER	2x	1	x	10	64,63	71,093	142,186	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string	3	7	2	2	4	string box	SB	3	7	2	2	H1Z2Z2	TINNED COPPER	2x	1	x	10	64,63	71,093	142,186	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string	3	7	2	2	5	string box	SB	3	7	2	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string	3	7	2	2	6	string box	SB	3	7	2	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string	3	7	2	2	7	string box	SB	3	7	2	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string	3	7	2	2	8	string box	SB	3	7	2	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string	3	7	2	2	9	string box	SB	3	7	2	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	32	35,2	70,4	17,44	20	EPR	6	In contact	35	OK	0,53%			0,036
string	3	7	2	2	10	string box	SB	3	7	2	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	32	35,2	70,4	17,44	20	EPR	6	In contact	35	OK	0,53%			0,036
string	3	7	2	2	11	string box	SB	3	7	2	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	22	24,2	48,4	17,44	20	EPR	6	In contact	35	OK	0,36%			0,025
string	3	7	2	2	12	string box	SB	3	7	2	2	H1Z2Z2	TINNED COPPER	2x	1	x	6	22	24,2	48,4	17,44	20	EPR	6	In contact	35	OK	0,36%			0,025
string	3	7	2	2	13	string box	SB	3	7	2	2	H1Z2Z2	TINNED COPPER	2x	1	x	10	75,26	82,786	165,572	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string	3	7	2	2	14	string box	SB	3	7	2	2	H1Z2Z2	TINNED COPPER	2x	1	x	10	75,26	82,786	165,572	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string	3	7	2	2	15	string box	SB	3	7	2	2	H1Z2Z2	TINNED COPPER	2x	1	x	10	65,26	71,786	143,572	17,44	20	EPR	6	In contact	47,5	OK	0,62%			0,043
string	3	7	2	2	16	string box	SB	3	7	2	2	H1Z2Z2	TINNED COPPER	2x	1	x	10	65,26	71,786	143,572	17,44	20	EPR	6	In contact	47,5	OK	0,62%			0,043
string	3	7	2	2	17	string box	SB	3	7	2	2	H1Z2Z2	TINNED COPPER	2x	1	x	10	66,3	72,93	145,86	17,44	20	EPR	6	In contact	47,5	OK	0,63%			0,043

string	3	7	2	2	18	string box	SB	3	7	2	2	H1Z2Z2	TINNED COPPER	2x	1	x	10	66,3	72,93	145,86	17,44	20	EPR	6	In contact	47,5	OK	0,63%			0,043
string box	SB	3	7	2	2	conversion unit	CU		7			ARG70R	ALUMINIUM	2x	1	x	240	104,22	114,642	229,284	313,92	20	EPR	6	25	370,048	OK	1,04%			1,412185
																											MAX. VOLTAGE DROP	1,75%	2%	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 3 7 2 3 1	string box SB 3 7 2 3	H1Z2Z2	TINNED COPPER	2x 1 x 10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string 3 7 2 3 2	string box SB 3 7 2 3	H1Z2Z2	TINNED COPPER	2x 1 x 10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string 3 7 2 3 3	string box SB 3 7 2 3	H1Z2Z2	TINNED COPPER	2x 1 x 10	64,63	71,093	142,186	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string 3 7 2 3 4	string box SB 3 7 2 3	H1Z2Z2	TINNED COPPER	2x 1 x 10	64,63	71,093	142,186	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string 3 7 2 3 5	string box SB 3 7 2 3	H1Z2Z2	TINNED COPPER	2x 1 x 10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string 3 7 2 3 6	string box SB 3 7 2 3	H1Z2Z2	TINNED COPPER	2x 1 x 10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string 3 7 2 3 7	string box SB 3 7 2 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 3 7 2 3 8	string box SB 3 7 2 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 3 7 2 3 9	string box SB 3 7 2 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 3 7 2 3 10	string box SB 3 7 2 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 3 7 2 3 11	string box SB 3 7 2 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 3 7 2 3 12	string box SB 3 7 2 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 3 7 2 3 13	string box SB 3 7 2 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	32	35,2	70,4	17,44	20	EPR	6	In contact	35	OK	0,53%			0,036
string 3 7 2 3 14	string box SB 3 7 2 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	32	35,2	70,4	17,44	20	EPR	6	In contact	35	OK	0,53%			0,036
string 3 7 2 3 15	string box SB 3 7 2 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	22	24,2	48,4	17,44	20	EPR	6	In contact	35	OK	0,36%			0,025
string 3 7 2 3 16	string box SB 3 7 2 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	22	24,2	48,4	17,44	20	EPR	6	In contact	35	OK	0,36%			0,025
string 3 7 2 3 17	string box SB 3 7 2 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	32	35,2	70,4	17,44	20	EPR	6	In contact	35	OK	0,53%			0,036
string 3 7 2 3 18	string box SB 3 7 2 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	32	35,2	70,4	17,44	20	EPR	6	In contact	35	OK	0,53%			0,036
string 3 7 2 3 19	string box SB 3 7 2 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	65,26	71,786	143,572	17,44	20	EPR	6	In contact	35	OK	1,07%			0,074
string 3 7 2 3 20	string box SB 3 7 2 3	H1Z2Z2	TINNED COPPER	2x 1 x 6	65,26	71,786	143,572	17,44	20	EPR	6	In contact	35	OK	1,07%			0,074
string box SB 3 7 2 3	conversion unit CU 7 .	ARG70R	ALUMINIUM	2x 2 x 240	133,18	146,498	585,992	348,8	20	EPR	6	25	370,048	OK	0,74%			1,113947
															MAX. VOLTAGE DROP	1,81%	2%	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 3 8 1 1 1	string box SB 3 8 1 1	H1Z2Z2	TINNED COPPER	2x 1 x 10	64,63	71,093	142,186	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string 3 8 1 1 2	string box SB 3 8 1 1	H1Z2Z2	TINNED COPPER	2x 1 x 10	64,63	71,093	142,186	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string 3 8 1 1 3	string box SB 3 8 1 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 3 8 1 1 4	string box SB 3 8 1 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 3 8 1 1 5	string box SB 3 8 1 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	22	24,2	48,4	17,44	20	EPR	6	In contact	35	OK	0,36%			0,025
string 3 8 1 1 6	string box SB 3 8 1 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	22	24,2	48,4	17,44	20	EPR	6	In contact	35	OK	0,36%			0,025
string 3 8 1 1 7	string box SB 3 8 1 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	32	35,2	70,4	17,44	20	EPR	6	In contact	35	OK	0,53%			0,036
string 3 8 1 1 8	string box SB 3 8 1 1	H1Z2Z2	TINNED COPPER	2x 1 x 6	32	35,2	70,4	17,44	20	EPR	6	In contact	35	OK	0,53%			0,036
string 3 8 1 1 9	string box SB 3 8 1 1	H1Z2Z2	TINNED COPPER	2x 1 x 10	75,26	82,786	165,572	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string 3 8 1 1 10	string box SB 3 8 1 1	H1Z2Z2	TINNED COPPER	2x 1 x 10	75,26	82,786	165,572	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string 3 8 1 1 11	string box SB 3 8 1 1	H1Z2Z2	TINNED COPPER	2x 1 x 10	65,26	71,786	143,572	17,44	20	EPR	6	In contact	47,5	OK	0,62%			0,043
string 3 8 1 1 12	string box SB 3 8 1 1	H1Z2Z2	TINNED COPPER	2x 1 x 10	65,26	71,786	143,572	17,44	20	EPR	6	In contact	47,5	OK	0,62%			0,043
string 3 8 1 1 13	string box SB 3 8 1 1	H1Z2Z2	TINNED COPPER	2x 1 x 10	75,26	82,786	165,572	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string 3 8 1 1 14	string box SB 3 8 1 1	H1Z2Z2	TINNED COPPER	2x 1 x 10	75,26	82,786	165,572	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string box SB 3 8 1 1	conversion unit CU 8 .	ARG70R	ALUMINIUM	2x 1 x 185	98,32	108,152	216,304	244,16	20	EPR	6	25	313,6	OK	1,00%			1,057371
															MAX. VOLTAGE DROP	1,72%	2%	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 3.8.1.2.1	string box SB 3,8.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string 3.8.1.2.2	string box SB 3,8.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string 3.8.1.2.3	string box SB 3,8.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	64,63	71,093	142,186	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string 3.8.1.2.4	string box SB 3,8.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	64,63	71,093	142,186	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string 3.8.1.2.5	string box SB 3,8.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string 3.8.1.2.6	string box SB 3,8.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	64,63	71,093	142,186	17,44	20	EPR	6	In contact	35	OK	1,06%			0,073
string 3.8.1.2.7	string box SB 3,8.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 3.8.1.2.8	string box SB 3,8.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 3.8.1.2.9	string box SB 3,8.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 3.8.1.2.10	string box SB 3,8.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 3.8.1.2.11	string box SB 3,8.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 3.8.1.2.12	string box SB 3,8.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 3.8.1.2.13	string box SB 3,8.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	22	24,2	48,4	17,44	20	EPR	6	In contact	35	OK	0,36%			0,025
string 3.8.1.2.14	string box SB 3,8.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	22	24,2	48,4	17,44	20	EPR	6	In contact	35	OK	0,36%			0,025
string 3.8.1.2.15	string box SB 3,8.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	32	35,2	70,4	17,44	20	EPR	6	In contact	35	OK	0,53%			0,036
string 3.8.1.2.16	string box SB 3,8.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	32	35,2	70,4	17,44	20	EPR	6	In contact	35	OK	0,53%			0,036
string 3.8.1.2.17	string box SB 3,8.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	65,26	71,786	143,572	17,44	20	EPR	6	In contact	47,5	OK	0,62%			0,043
string 3.8.1.2.18	string box SB 3,8.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	65,26	71,786	143,572	17,44	20	EPR	6	In contact	47,5	OK	0,62%			0,043
string 3.8.1.2.19	string box SB 3,8.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	75,26	82,786	165,572	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string 3.8.1.2.20	string box SB 3,8.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	75,26	82,786	165,572	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string box SB 3.8.1.2	conversion unit CU 8.	ARG70R	ALUMINIUM	2x 2 x 240	158,32	174,152	696,608	348,8	20	EPR	6	25	370,048	OK	0,88%			1,324224
												MAX. VOLTAGE DROP			1,94%	2%	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 3.8.1.3.1	string box SB 3,8.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string 3.8.1.3.2	string box SB 3,8.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string 3.8.1.3.3	string box SB 3,8.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	64,63	71,093	142,186	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string 3.8.1.3.4	string box SB 3,8.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	64,63	71,093	142,186	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string 3.8.1.3.5	string box SB 3,8.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 3.8.1.3.6	string box SB 3,8.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 3.8.1.3.7	string box SB 3,8.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 3.8.1.3.8	string box SB 3,8.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 3.8.1.3.9	string box SB 3,8.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	32	35,2	70,4	17,44	20	EPR	6	In contact	35	OK	0,53%			0,036
string 3.8.1.3.10	string box SB 3,8.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	32	35,2	70,4	17,44	20	EPR	6	In contact	35	OK	0,53%			0,036
string 3.8.1.3.11	string box SB 3,8.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	22	24,2	48,4	17,44	20	EPR	6	In contact	35	OK	0,36%			0,025
string 3.8.1.3.12	string box SB 3,8.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	22	24,2	48,4	17,44	20	EPR	6	In contact	35	OK	0,36%			0,025
string 3.8.1.3.13	string box SB 3,8.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	75,26	82,786	165,572	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string 3.8.1.3.14	string box SB 3,8.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	75,26	82,786	165,572	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string 3.8.1.3.15	string box SB 3,8.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	65,26	71,786	143,572	17,44	20	EPR	6	In contact	47,5	OK	0,62%			0,043
string 3.8.1.3.16	string box SB 3,8.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	65,26	71,786	143,572	17,44	20	EPR	6	In contact	47,5	OK	0,62%			0,043
string 3.8.1.3.17	string box SB 3,8.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 16	107,99	118,789	237,578	17,44	20	EPR	6	In contact	65	OK	0,65%			0,045
string 3.8.1.3.18	string box SB 3,8.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 16	97,99	107,789	215,578	17,44	20	EPR	6	In contact	65	OK	0,59%			0,041
string box SB 3.8.1.3	conversion unit CU 8.	ARG70R	ALUMINIUM	2x 1 x 300	128,32	141,152	282,304	313,92	20	EPR	6	25	406,784	OK	1,03%			1,390993
												MAX. VOLTAGE DROP			1,74%	2%	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 3.8.2.1.1	string box SB 3,8.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string 3.8.2.1.2	string box SB 3,8.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string 3.8.2.1.3	string box SB 3,8.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	64,63	71,093	142,186	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string 3.8.2.1.4	string box SB 3,8.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	64,63	71,093	142,186	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string 3.8.2.1.5	string box SB 3,8.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 3.8.2.1.6	string box SB 3,8.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 3.8.2.1.7	string box SB 3,8.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 3.8.2.1.8	string box SB 3,8.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 3.8.2.1.9	string box SB 3,8.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	32	35,2	70,4	17,44	20	EPR	6	In contact	35	OK	0,53%			0,036
string 3.8.2.1.10	string box SB 3,8.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	32	35,2	70,4	17,44	20	EPR	6	In contact	35	OK	0,53%			0,036
string 3.8.2.1.11	string box SB 3,8.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	22	24,2	48,4	17,44	20	EPR	6	In contact	35	OK	0,36%			0,025
string 3.8.2.1.12	string box SB 3,8.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	22	24,2	48,4	17,44	20	EPR	6	In contact	35	OK	0,36%			0,025
string 3.8.2.1.13	string box SB 3,8.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	75,26	82,786	165,572	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string 3.8.2.1.14	string box SB 3,8.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	75,26	82,786	165,572	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string 3.8.2.1.15	string box SB 3,8.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	65,26	71,786	143,572	17,44	20	EPR	6	In contact	47,5	OK	0,62%			0,043
string 3.8.2.1.16	string box SB 3,8.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	65,26	71,786	143,572	17,44	20	EPR	6	In contact	47,5	OK	0,62%			0,043
string 3.8.2.1.17	string box SB 3,8.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	75,26	82,786	165,572	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string 3.8.2.1.18	string box SB 3,8.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	75,26	82,786	165,572	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string 3.8.2.1.19	string box SB 3,8.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 16	85,26	93,786	187,572	17,44	20	EPR	6	In contact	65	OK	0,51%			0,035
string 3.8.2.1.20	string box SB 3,8.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 16	107,99	118,789	237,578	17,44	20	EPR	6	In contact	65	OK	0,65%			0,045
string box SB 3.8.1.3	conversion unit CU 8.	ARG70R	ALUMINIUM	2x 1 x 240	108,32	119,152	238,304	348,8	20	EPR	6	25	370,048	OK	1,20%			1,812025
												MAX. VOLTAGE DROP			**1,92%**	**2%**	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 3.8.2.2.1	string box SB 3,8.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	64,63	71,093	142,186	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string 3.8.2.2.2	string box SB 3,8.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	64,63	71,093	142,186	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string 3.8.2.2.3	string box SB 3,8.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	59,79	65,769	131,538	17,44	20	EPR	6	In contact	35	OK	0,98%			0,068
string 3.8.2.2.4	string box SB 3,8.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	59,79	65,769	131,538	17,44	20	EPR	6	In contact	35	OK	0,98%			0,068
string 3.8.2.2.5	string box SB 3,8.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	70,38	77,418	154,836	17,44	20	EPR	6	In contact	47,5	OK	0,67%			0,046
string 3.8.2.2.6	string box SB 3,8.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	70,38	77,418	154,836	17,44	20	EPR	6	In contact	47,5	OK	0,67%			0,046
string 3.8.2.2.7	string box SB 3,8.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 3.8.2.2.8	string box SB 3,8.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 3.8.2.2.9	string box SB 3,8.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 3.8.2.2.10	string box SB 3,8.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 3.8.2.2.11	string box SB 3,8.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	41,37	45,507	91,014	17,44	20	EPR	6	In contact	35	OK	0,68%			0,047
string 3.8.2.2.12	string box SB 3,8.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	41,37	45,507	91,014	17,44	20	EPR	6	In contact	35	OK	0,68%			0,047
string 3.8.2.2.13	string box SB 3,8.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	22	24,2	48,4	17,44	20	EPR	6	In contact	35	OK	0,36%			0,025
string 3.8.2.2.14	string box SB 3,8.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	22	24,2	48,4	17,44	20	EPR	6	In contact	35	OK	0,36%			0,025
string 3.8.2.2.15	string box SB 3,8.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	44,75	49,225	98,45	17,44	20	EPR	6	In contact	35	OK	0,74%			0,051
string 3.8.2.2.16	string box SB 3,8.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	44,75	49,225	98,45	17,44	20	EPR	6	In contact	35	OK	0,74%			0,051
string 3.8.2.2.17	string box SB 3,8.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	54,75	60,225	120,45	17,44	20	EPR	6	In contact	35	OK	0,90%			0,062
string 3.8.2.2.18	string box SB 3,8.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	54,75	60,225	120,45	17,44	20	EPR	6	In contact	35	OK	0,90%			0,062
string box SB 3.8.2.2	conversion unit CU 8.	ARG70R	ALUMINIUM	2x 1 x 240	98,32	108,152	216,304	313,92	20	EPR	6	25	370,048	OK	0,98%			1,33224
												MAX. VOLTAGE DROP			**1,97%**	**2%**	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 3.8.2.3.1	string box SB 3,8.2.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 3.8.2.3.2	string box SB 3,8.2.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 3.8.2.3.3	string box SB 3,8.2.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 3.8.2.3.4	string box SB 3,8.2.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 3.8.2.3.5	string box SB 3,8.2.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 3.8.2.3.6	string box SB 3,8.2.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	31,37	34,507	69,014	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string 3.8.2.3.7	string box SB 3,8.2.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string 3.8.2.3.8	string box SB 3,8.2.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string 3.8.2.3.9	string box SB 3,8.2.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	64,63	71,093	142,186	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string 3.8.2.3.10	string box SB 3,8.2.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	64,63	71,093	142,186	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string 3.8.2.3.11	string box SB 3,8.2.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string 3.8.2.3.12	string box SB 3,8.2.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	74,63	82,093	164,186	17,44	20	EPR	6	In contact	47,5	OK	0,71%			0,049
string 3.8.2.3.13	string box SB 3,8.2.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	84,63	93,093	186,186	17,44	20	EPR	6	In contact	47,5	OK	0,80%			0,055
string 3.8.2.3.14	string box SB 3,8.2.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	84,63	93,093	186,186	17,44	20	EPR	6	In contact	47,5	OK	0,80%			0,055
string 3.8.2.3.15	string box SB 3,8.2.3	H1Z2Z2	TINNED COPPER	2x 1 x 16	117,89	129,679	259,358	17,44	20	EPR	6	In contact	65	OK	0,71%			0,049
string 3.8.2.3.16	string box SB 3,8.2.3	H1Z2Z2	TINNED COPPER	2x 1 x 16	117,89	129,679	259,358	17,44	20	EPR	6	In contact	65	OK	0,71%			0,049
string 3.8.2.3.17	string box SB 3,8.2.3	H1Z2Z2	TINNED COPPER	2x 1 x 16	107,89	118,679	237,358	17,44	20	EPR	6	In contact	65	OK	0,65%			0,045
string 3.8.2.3.18	string box SB 3,8.2.3	H1Z2Z2	TINNED COPPER	2x 1 x 16	107,89	118,679	237,358	17,44	20	EPR	6	In contact	65	OK	0,65%			0,045
string 3.8.2.3.19	string box SB 3,8.2.3	H1Z2Z2	TINNED COPPER	2x 1 x 16	107,37	118,107	236,214	17,44	20	EPR	6	In contact	65	OK	0,65%			0,045
string 3.8.2.3.20	string box SB 3,8.2.3	H1Z2Z2	TINNED COPPER	2x 1 x 16	117,37	129,107	258,214	17,44	20	EPR	6	In contact	65	OK	0,71%			0,049
string box SB 3.8.2.3	conversion unit CU 8.	ARG70R	ALUMINIUM	2x 1 x 185	25,23	27,753	55,506	348,8	20	EPR	1	In contact	448	OK	0,37%			0,553741
														MAX. VOLTAGE DROP	1,17%	2%	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 3.9.1.1.1	string box SB 3,9.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 16	110,48	121,528	243,056	17,44	20	EPR	6	In contact	65	OK	0,67%			0,046
string 3.9.1.1.2	string box SB 3,9.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 16	110,48	121,528	243,056	17,44	20	EPR	6	In contact	65	OK	0,67%			0,046
string 3.9.1.1.3	string box SB 3,9.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	87,48	96,228	192,456	17,44	20	EPR	6	In contact	47,5	OK	0,83%			0,057
string 3.9.1.1.4	string box SB 3,9.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	87,48	96,228	192,456	17,44	20	EPR	6	In contact	47,5	OK	0,83%			0,057
string 3.9.1.1.5	string box SB 3,9.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	64,63	71,093	142,186	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string 3.9.1.1.6	string box SB 3,9.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	64,63	71,093	142,186	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string 3.9.1.1.7	string box SB 3,9.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	61,64	67,804	135,608	17,44	20	EPR	6	In contact	47,5	OK	0,58%			0,040
string 3.9.1.1.8	string box SB 3,9.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	61,64	67,804	135,608	17,44	20	EPR	6	In contact	47,5	OK	0,58%			0,040
string 3.9.1.1.9	string box SB 3,9.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	58,67	64,537	129,074	17,44	20	EPR	6	In contact	47,5	OK	0,56%			0,038
string 3.9.1.1.10	string box SB 3,9.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	58,67	64,537	129,074	17,44	20	EPR	6	In contact	47,5	OK	0,56%			0,038
string 3.9.1.1.11	string box SB 3,9.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	67,22	73,942	147,884	17,44	20	EPR	6	In contact	47,5	OK	0,64%			0,044
string 3.9.1.1.12	string box SB 3,9.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	67,22	73,942	147,884	17,44	20	EPR	6	In contact	47,5	OK	0,64%			0,044
string 3.9.1.1.13	string box SB 3,9.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	44,23	48,653	97,306	17,44	20	EPR	6	In contact	35	OK	0,73%			0,050
string 3.9.1.1.14	string box SB 3,9.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	44,23	48,653	97,306	17,44	20	EPR	6	In contact	35	OK	0,73%			0,050
string 3.9.1.1.15	string box SB 3,9.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 3.9.1.1.16	string box SB 3,9.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 3.9.1.1.17	string box SB 3,9.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	18,49	20,339	40,678	17,44	20	EPR	6	In contact	35	OK	0,30%			0,021
string 3.9.1.1.18	string box SB 3,9.1.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	18,49	20,339	40,678	17,44	20	EPR	6	In contact	35	OK	0,30%			0,021
string box SB 3.9.1.1	conversion unit CU 9.	ARG70R	ALUMINIUM	2x 1 x 240	111,12	122,232	244,464	313,92	20	EPR	6	25	370,048	OK	1,11%			1,505681
														MAX. VOLTAGE DROP	1,94%	2%	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 3.9.1.2.1	string box SB 3,9.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 16	107,89	118,679	237,358	17,44	20	EPR	6	In contact	65	OK	0,65%			0,045
string 3.9.1.2.2	string box SB 3,9.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 16	107,89	118,679	237,358	17,44	20	EPR	6	In contact	65	OK	0,65%			0,045
string 3.9.1.2.3	string box SB 3,9.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 16	104,76	115,236	230,472	17,44	20	EPR	6	In contact	65	OK	0,63%			0,043
string 3.9.1.2.4	string box SB 3,9.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 16	104,76	115,236	230,472	17,44	20	EPR	6	In contact	65	OK	0,63%			0,043
string 3.9.1.2.5	string box SB 3,9.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 16	100,22	110,242	220,484	17,44	20	EPR	6	In contact	65	OK	0,60%			0,042
string 3.9.1.2.6	string box SB 3,9.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 16	100,22	110,242	220,484	17,44	20	EPR	6	In contact	65	OK	0,60%			0,042
string 3.9.1.2.7	string box SB 3,9.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	64,63	71,093	142,186	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string 3.9.1.2.8	string box SB 3,9.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	64,63	71,093	142,186	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string 3.9.1.2.9	string box SB 3,9.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	61,51	67,661	135,322	17,44	20	EPR	6	In contact	47,5	OK	0,58%			0,040
string 3.9.1.2.10	string box SB 3,9.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	61,51	67,661	135,322	17,44	20	EPR	6	In contact	47,5	OK	0,58%			0,040
string 3.9.1.2.11	string box SB 3,9.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	56,97	62,667	125,334	17,44	20	EPR	6	In contact	47,5	OK	0,54%			0,037
string 3.9.1.2.12	string box SB 3,9.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	56,97	62,667	125,334	17,44	20	EPR	6	In contact	47,5	OK	0,54%			0,037
string 3.9.1.2.13	string box SB 3,9.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 3.9.1.2.14	string box SB 3,9.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 3.9.1.2.15	string box SB 3,9.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	18,25	20,075	40,15	17,44	20	EPR	6	In contact	35	OK	0,30%			0,021
string 3.9.1.2.16	string box SB 3,9.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	18,25	20,075	40,15	17,44	20	EPR	6	In contact	35	OK	0,30%			0,021
string 3.9.1.2.17	string box SB 3,9.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	32,64	35,904	71,808	17,44	20	EPR	6	In contact	35	OK	0,54%			0,037
string 3.9.1.2.18	string box SB 3,9.1.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	32,64	35,904	71,808	17,44	20	EPR	6	In contact	35	OK	0,54%			0,037
string box SB 3.9.1.2	conversion unit CU 9.	ARG70R	ALUMINIUM	2x 2 x 240	238,65	262,515	1050,06	313,92	20	EPR	6	25	370,048	OK	1,19%			1,616859
												MAX. VOLTAGE DROP			**1,84%**	**2%**	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 3.9.1.3.1	string box SB 3,9.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	84,52	92,972	185,944	17,44	20	EPR	6	In contact	47,5	OK	0,80%			0,055
string 3.9.1.3.2	string box SB 3,9.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	51,79	56,969	113,938	17,44	20	EPR	6	In contact	35	OK	0,85%			0,059
string 3.9.1.3.3	string box SB 3,9.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	51,79	56,969	113,938	17,44	20	EPR	6	In contact	35	OK	0,85%			0,059
string 3.9.1.3.4	string box SB 3,9.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	79,94	87,934	175,868	17,44	20	EPR	6	In contact	47,5	OK	0,76%			0,052
string 3.9.1.3.5	string box SB 3,9.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	79,94	87,934	175,868	17,44	20	EPR	6	In contact	47,5	OK	0,76%			0,052
string 3.9.1.3.6	string box SB 3,9.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	36,68	40,348	80,696	17,44	20	EPR	6	In contact	35	OK	0,60%			0,042
string 3.9.1.3.7	string box SB 3,9.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	36,6	40,26	80,52	17,44	20	EPR	6	In contact	35	OK	0,60%			0,042
string 3.9.1.3.8	string box SB 3,9.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	64,63	71,093	142,186	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string 3.9.1.3.9	string box SB 3,9.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	64,63	71,093	142,186	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string 3.9.1.3.10	string box SB 3,9.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 3.9.1.3.11	string box SB 3,9.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 3.9.1.3.12	string box SB 3,9.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 16	102,17	112,387	224,774	17,44	20	EPR	6	In contact	65	OK	0,62%			0,042
string 3.9.1.3.13	string box SB 3,9.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	69,43	76,373	152,746	17,44	20	EPR	6	In contact	47,5	OK	0,66%			0,045
string 3.9.1.3.14	string box SB 3,9.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	69,43	76,373	152,746	17,44	20	EPR	6	In contact	47,5	OK	0,66%			0,045
string 3.9.1.3.15	string box SB 3,9.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	26,17	28,787	57,574	17,44	20	EPR	6	In contact	35	OK	0,43%			0,030
string 3.9.1.3.16	string box SB 3,9.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	26,17	28,787	57,574	17,44	20	EPR	6	In contact	35	OK	0,43%			0,030
string 3.9.1.3.17	string box SB 3,9.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	74,2	81,62	163,24	17,44	20	EPR	6	In contact	47,5	OK	0,70%			0,048
string 3.9.1.3.18	string box SB 3,9.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	74,2	81,62	163,24	17,44	20	EPR	6	In contact	47,5	OK	0,70%			0,048
string 3.9.1.3.19	string box SB 3,9.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	30,95	34,045	68,09	17,44	20	EPR	6	In contact	35	OK	0,51%			0,035
string 3.9.1.3.20	string box SB 3,9.1.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	30,95	34,045	68,09	17,44	20	EPR	6	In contact	35	OK	0,51%			0,035
string box SB 3.9.1.3	conversion unit CU 9.	ARG70R	ALUMINIUM	2x 2 x 240	196,54	216,194	864,776	348,8	20	EPR	6	25	370,048	OK	1,09%			1,643905
												MAX. VOLTAGE DROP			**1,94%**	**2%**	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 3.9.2.1.1	string box SB 3,9.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 16	115,27	126,797	253,594	17,44	20	EPR	6	In contact	65	OK	0,69%			0,048
string 3.9.2.1.2	string box SB 3,9.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 16	115,27	126,797	253,594	17,44	20	EPR	6	In contact	65	OK	0,69%			0,048
string 3.9.2.1.3	string box SB 3,9.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 16	107,89	118,679	237,358	17,44	20	EPR	6	In contact	65	OK	0,65%			0,045
string 3.9.2.1.4	string box SB 3,9.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 16	107,89	118,679	237,358	17,44	20	EPR	6	In contact	65	OK	0,65%			0,045
string 3.9.2.1.5	string box SB 3,9.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 16	104,89	115,379	230,758	17,44	20	EPR	6	In contact	65	OK	0,63%			0,044
string 3.9.2.1.6	string box SB 3,9.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 16	104,89	115,379	230,758	17,44	20	EPR	6	In contact	65	OK	0,63%			0,044
string 3.9.2.1.7	string box SB 3,9.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	72,01	79,211	158,422	17,44	20	EPR	6	In contact	47,5	OK	0,68%			0,047
string 3.9.2.1.8	string box SB 3,9.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	72,01	79,211	158,422	17,44	20	EPR	6	In contact	47,5	OK	0,68%			0,047
string 3.9.2.1.9	string box SB 3,9.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	64,63	71,093	142,186	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string 3.9.2.1.10	string box SB 3,9.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	64,63	71,093	142,186	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string 3.9.2.1.11	string box SB 3,9.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	61,63	67,793	135,586	17,44	20	EPR	6	In contact	47,5	OK	0,58%			0,040
string 3.9.2.1.12	string box SB 3,9.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 10	61,63	67,793	135,586	17,44	20	EPR	6	In contact	47,5	OK	0,58%			0,040
string 3.9.2.1.13	string box SB 3,9.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	28,76	31,636	63,272	17,44	20	EPR	6	In contact	35	OK	0,47%			0,033
string 3.9.2.1.14	string box SB 3,9.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	28,76	31,636	63,272	17,44	20	EPR	6	In contact	35	OK	0,47%			0,033
string 3.9.2.1.15	string box SB 3,9.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 3.9.2.1.16	string box SB 3,9.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 3.9.2.1.17	string box SB 3,9.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	18,38	20,218	40,436	17,44	20	EPR	6	In contact	35	OK	0,30%			0,021
string 3.9.2.1.18	string box SB 3,9.2.1	H1Z2Z2	TINNED COPPER	2x 1 x 6	18,38	20,218	40,436	17,44	20	EPR	6	In contact	35	OK	0,30%			0,021
string box SB 3.9.2.1	conversion unit CU 9.	ARG70R	ALUMINIUM	2x 1 x 300	158,16	173,976	347,952	313,92	20	EPR	6	25	406,784	OK	1,27%			1,71446
												MAX. VOLTAGE DROP			**1,96%**	**2%**	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 3.9.2.2.1	string box SB 3,9.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	51,79	56,969	113,938	17,44	20	EPR	6	In contact	47,5	OK	0,49%			0,034
string 3.9.2.2.2	string box SB 3,9.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	51,79	56,969	113,938	17,44	20	EPR	6	In contact	47,5	OK	0,49%			0,034
string 3.9.2.2.3	string box SB 3,9.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	36,56	40,216	80,432	17,44	20	EPR	6	In contact	35	OK	0,60%			0,041
string 3.9.2.2.4	string box SB 3,9.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	36,56	40,216	80,432	17,44	20	EPR	6	In contact	35	OK	0,60%			0,041
string 3.9.2.2.5	string box SB 3,9.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 3.9.2.2.6	string box SB 3,9.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 3.9.2.2.7	string box SB 3,9.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	26,18	28,798	57,596	17,44	20	EPR	6	In contact	35	OK	0,43%			0,030
string 3.9.2.2.8	string box SB 3,9.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 6	26,18	28,798	57,596	17,44	20	EPR	6	In contact	35	OK	0,43%			0,030
string 3.9.2.2.9	string box SB 3,9.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 16	95,05	104,555	209,11	17,44	20	EPR	6	In contact	65	OK	0,57%			0,039
string 3.9.2.2.10	string box SB 3,9.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 16	95,05	104,555	209,11	17,44	20	EPR	6	In contact	65	OK	0,57%			0,039
string 3.9.2.2.11	string box SB 3,9.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	79,82	87,802	175,604	17,44	20	EPR	6	In contact	47,5	OK	0,76%			0,052
string 3.9.2.2.12	string box SB 3,9.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	79,82	87,802	175,604	17,44	20	EPR	6	In contact	47,5	OK	0,76%			0,052
string 3.9.2.2.13	string box SB 3,9.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	64,63	71,093	142,186	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string 3.9.2.2.14	string box SB 3,9.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	64,63	71,093	142,186	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string 3.9.2.2.15	string box SB 3,9.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	69,42	76,362	152,724	17,44	20	EPR	6	In contact	47,5	OK	0,66%			0,045
string 3.9.2.2.16	string box SB 3,9.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 10	69,42	76,362	152,724	17,44	20	EPR	6	In contact	47,5	OK	0,66%			0,045
string 3.9.2.2.17	string box SB 3,9.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 16	112,68	123,948	247,896	17,44	20	EPR	6	In contact	65	OK	0,68%			0,047
string 3.9.2.2.18	string box SB 3,9.2.2	H1Z2Z2	TINNED COPPER	2x 1 x 16	112,68	123,948	247,896	17,44	20	EPR	6	In contact	65	OK	0,68%			0,047
string box SB 3.9.2.2	conversion unit CU 9.	ARG70R	ALUMINIUM	2x 2 x 240	230,37	253,407	1013,628	313,92	20	EPR	4	25	396,48	OK	1,15%			1,560762
												MAX. VOLTAGE DROP			**1,91%**	**2%**	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 3.9.2.3.1	string box SB 3,9.2.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	84,52	92,972	185,944	17,44	20	EPR	6	In contact	47,5	OK	0,80%			0,055
string 3.9.2.3.2	string box SB 3,9.2.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	51,79	56,969	113,938	17,44	20	EPR	6	In contact	35	OK	0,85%			0,059
string 3.9.2.3.3	string box SB 3,9.2.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	51,79	56,969	113,938	17,44	20	EPR	6	In contact	35	OK	0,85%			0,059
string 3.9.2.3.4	string box SB 3,9.2.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	79,94	87,934	175,868	17,44	20	EPR	6	In contact	47,5	OK	0,76%			0,052
string 3.9.2.3.5	string box SB 3,9.2.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	79,94	87,934	175,868	17,44	20	EPR	6	In contact	47,5	OK	0,76%			0,052
string 3.9.2.3.6	string box SB 3,9.2.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	36,68	40,348	80,696	17,44	20	EPR	6	In contact	35	OK	0,60%			0,042
string 3.9.2.3.7	string box SB 3,9.2.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	36,68	40,348	80,696	17,44	20	EPR	6	In contact	35	OK	0,60%			0,042
string 3.9.2.3.8	string box SB 3,9.2.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	64,63	71,093	142,186	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string 3.9.2.3.9	string box SB 3,9.2.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	64,63	71,093	142,186	17,44	20	EPR	6	In contact	47,5	OK	0,61%			0,042
string 3.9.2.3.10	string box SB 3,9.2.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 3.9.2.3.11	string box SB 3,9.2.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 3.9.2.3.12	string box SB 3,9.2.3	H1Z2Z2	TINNED COPPER	2x 1 x 16	102,17	112,387	224,774	17,44	20	EPR	6	In contact	65	OK	0,62%			0,042
string 3.9.2.3.13	string box SB 3,9.2.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	69,43	76,373	152,746	17,44	20	EPR	6	In contact	47,5	OK	0,66%			0,045
string 3.9.2.3.14	string box SB 3,9.2.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	69,43	76,373	152,746	17,44	20	EPR	6	In contact	47,5	OK	0,66%			0,045
string 3.9.2.3.15	string box SB 3,9.2.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	26,17	28,787	57,574	17,44	20	EPR	6	In contact	35	OK	0,43%			0,030
string 3.9.2.3.16	string box SB 3,9.2.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	26,17	28,787	57,574	17,44	20	EPR	6	In contact	35	OK	0,43%			0,030
string 3.9.2.3.17	string box SB 3,9.2.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	74,2	81,62	163,24	17,44	20	EPR	6	In contact	47,5	OK	0,70%			0,048
string 3.9.2.3.18	string box SB 3,9.2.3	H1Z2Z2	TINNED COPPER	2x 1 x 10	74,2	81,62	163,24	17,44	20	EPR	6	In contact	47,5	OK	0,70%			0,048
string 3.9.2.3.19	string box SB 3,9.2.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	30,95	34,045	68,09	17,44	20	EPR	6	In contact	35	OK	0,51%			0,035
string 3.9.2.3.20	string box SB 3,9.2.3	H1Z2Z2	TINNED COPPER	2x 1 x 6	30,95	34,045	68,09	17,44	20	EPR	6	In contact	35	OK	0,51%			0,035
string box SB 3.9.2.3	conversion unit CU 9.	ARG70R	ALUMINIUM	2x 2 x 240	174,01	191,411	765,644	348,8	20	EPR	4	25	396,48	OK	0,97%			1,455459
												MAX. VOLTAGE DROP			1,82%	2%	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]
string 3.9.2.4.1	string box SB 3,9.2.4	H1Z2Z2	TINNED COPPER	2x 1 x 10	89,59	98,549	197,098	17,44	20	EPR	6	In contact	47,5	OK	0,85%			0,058
string 3.9.2.4.2	string box SB 3,9.2.4	H1Z2Z2	TINNED COPPER	2x 1 x 6	74,21	81,631	163,262	17,44	20	EPR	6	In contact	35	OK	1,22%			0,084
string 3.9.2.4.3	string box SB 3,9.2.4	H1Z2Z2	TINNED COPPER	2x 1 x 6	74,21	81,631	163,262	17,44	20	EPR	6	In contact	35	OK	1,22%			0,084
string 3.9.2.4.4	string box SB 3,9.2.4	H1Z2Z2	TINNED COPPER	2x 1 x 6	69,44	76,384	152,768	17,44	20	EPR	6	In contact	35	OK	1,14%			0,079
string 3.9.2.4.5	string box SB 3,9.2.4	H1Z2Z2	TINNED COPPER	2x 1 x 6	69,44	76,384	152,768	17,44	20	EPR	6	In contact	35	OK	1,14%			0,079
string 3.9.2.4.6	string box SB 3,9.2.4	H1Z2Z2	TINNED COPPER	2x 1 x 6	64,63	71,093	142,186	17,44	20	EPR	6	In contact	35	OK	1,06%			0,073
string 3.9.2.4.7	string box SB 3,9.2.4	H1Z2Z2	TINNED COPPER	2x 1 x 6	64,63	71,093	142,186	17,44	20	EPR	6	In contact	35	OK	1,06%			0,073
string 3.9.2.4.8	string box SB 3,9.2.4	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 3.9.2.4.9	string box SB 3,9.2.4	H1Z2Z2	TINNED COPPER	2x 1 x 6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string 3.9.2.4.10	string box SB 3,9.2.4	H1Z2Z2	TINNED COPPER	2x 1 x 6	35,08	38,588	77,176	17,44	20	EPR	6	In contact	35	OK	0,58%			0,040
string 3.9.2.4.11	string box SB 3,9.2.4	H1Z2Z2	TINNED COPPER	2x 1 x 6	35,08	38,588	77,176	17,44	20	EPR	6	In contact	35	OK	0,58%			0,040
string 3.9.2.4.12	string box SB 3,9.2.4	H1Z2Z2	TINNED COPPER	2x 1 x 6	50,23	55,253	110,506	17,44	20	EPR	6	In contact	35	OK	0,83%			0,057
string 3.9.2.4.13	string box SB 3,9.2.4	H1Z2Z2	TINNED COPPER	2x 1 x 6	50,23	55,253	110,506	17,44	20	EPR	6	In contact	35	OK	0,83%			0,057
string 3.9.2.4.14	string box SB 3,9.2.4	H1Z2Z2	TINNED COPPER	2x 1 x 6	34,04	37,444	74,888	17,44	20	EPR	6	In contact	35	OK	0,56%			0,039
string box SB 3.9.2.4	conversion unit CU 9.	ARG70R	ALUMINIUM	2x 1 x 185	22,92	25,212	50,424	244,16	20	EPR	6	25	313,6	OK	0,23%			0,24649
												MAX. VOLTAGE DROP			1,46%	2%	OK	

From	To	Cable code	Type of cable	Formation	Lenght (1 polarity) [m]	Lenght +10% (1 polarity) [m]	Total cables lenght [m]	Ib (A)	Enviroment Temp. [°C]	Insulating	Number of circuit	Distance	Iz' [A]	Current test	Voltage drop	Voltage drop admited	Final test	Losses [kW]

string	3	.	10	.	1	.	1	.	1	string box	SB	3	,	10	.	1	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	47,44	52,184	104,368	17,44	20	EPR	6	In contact	35	OK	0,78%			0,054
string	3	.	10	.	1	.	1		2	string box	SB	3	,	10	.	1	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	47,44	52,184	104,368	17,44	20	EPR	6	In contact	35	OK	0,78%			0,054
string	3	.	10	.	1	.	1		3	string box	SB	3	,	10	.	1	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	24,28	26,708	53,416	17,44	20	EPR	6	In contact	35	OK	0,40%			0,028
string	3	.	10	.	1	.	1		4	string box	SB	3	,	10	.	1	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	24,28	26,708	53,416	17,44	20	EPR	6	In contact	35	OK	0,40%			0,028
string	3	.	10	.	1	.	1		5	string box	SB	3	,	10	.	1	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	67,54	74,294	148,588	17,44	20	EPR	6	In contact	35	OK	1,11%			0,077
string	3	.	10	.	1	.	1		6	string box	SB	3	,	10	.	1	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	67,54	74,294	148,588	17,44	20	EPR	6	In contact	35	OK	1,11%			0,077
string	3	.	10	.	1	.	1		7	string box	SB	3	,	10	.	1	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	22,31	24,541	49,082	17,44	20	EPR	6	In contact	35	OK	0,37%			0,025
string	3	.	10	.	1	.	1		8	string box	SB	3	,	10	.	1	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	22,31	24,541	49,082	17,44	20	EPR	6	In contact	35	OK	0,37%			0,025
string	3	.	10	.	1	.	1		9	string box	SB	3	,	10	.	1	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	45,91	50,501	101,002	17,44	20	EPR	6	In contact	35	OK	0,76%			0,052
string	3	.	10	.	1	.	1		10	string box	SB	3	,	10	.	1	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	45,91	50,501	101,002	17,44	20	EPR	6	In contact	35	OK	0,76%			0,052
string	3	.	10	.	1	.	1		11	string box	SB	3	,	10	.	1	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string	3	.	10	.	1	.	1		12	string box	SB	3	,	10	.	1	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	21,37	23,507	47,014	17,44	20	EPR	6	In contact	35	OK	0,35%			0,024
string	3	.	10	.	1	.	1		13	string box	SB	3	,	10	.	1	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	24,39	26,829	53,658	17,44	20	EPR	6	In contact	35	OK	0,40%			0,028
string	3	.	10	.	1	.	1		14	string box	SB	3	,	10	.	1	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	24,39	26,829	53,658	17,44	20	EPR	6	In contact	35	OK	0,40%			0,028
string	3	.	10	.	1	.	1		15	string box	SB	3	,	10	.	1	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	43,84	48,224	96,448	17,44	20	EPR	6	In contact	35	OK	0,72%			0,050
string	3	.	10	.	1	.	1		16	string box	SB	3	,	10	.	1	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	43,84	48,224	96,448	17,44	20	EPR	6	In contact	35	OK	0,72%			0,050
string	3	.	10	.	1	.	1		17	string box	SB	3	,	10	.	1	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	31,71	34,881	69,762	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string	3	.	10	.	1	.	1		18	string box	SB	3	,	10	.	1	.	1	H1Z2Z2	TINNED COPPER	2x	1	x	6	31,71	34,881	69,762	17,44	20	EPR	6	In contact	35	OK	0,52%			0,036
string box	SB		3	.	10	.	1	.	1	conversion unit	CU			10			.		ARG70R	ALUMINIUM	2x	1	x	185	22,92	25,212	50,424	313,92	20	EPR	1	In contact	448	OK	0,30%			0,407464
																																	MAX. VOLTAGE DROP		**1,41%**	**2%**	OK	

Total Losses (Segment between string boxes and PV strings) [kW]	Producted DC Power [kW]	Percentage of total losses	Losses admitted	Losses Test	Total Losses (Segment between inverter input and string boxes) [kW]	Percentage of total losses	Losses admitted	Losses Test
37,533	16456,0	0,23%	0,60%	OK	53,638	0,33%	0,40%	OK

Module	P [Wp]	Immp [A]	Isc [A]	Vmpp [V]	Voc [V]	Vi [V]	Modules per string
TSM-DE20	605	17,44	18,47	34,4	41,5	1500	32

DIMENSIONAMENTO CAVI MV

Pv Plant	Line	From	To	Cable code	Type of cable	Formation				Lenght [m]	Lenght +10% [m]	Number of traids	Equivalent section [mmq]	Electric heater at90°C [Ohm/Km]	Electrical resistivity [Ohm*mmq/m]	Cosφ	Senφ	Inductive reactance [Ohm/Km]	Equivalent inductive reactance [Ohm]	Capacitance [μF/km]	Equivalent capacitive reactance [Ohm]	Voltage [kV]	Power [kVA]	Ib [A]	Iz [A]	Equivalent Iz [A]	T[°C]	Number of circuits	Distance [cm]	Burial depth[m]	Thermal Resistivity [K*m/W]	K1	K2	K3	K4	Iz' [A]	current te	Voltage drop
CLUSTER 1	Line 22-21	CU 22	CU 21	ARE4H5EX	Single core in aluminium	3x	1	X	95	309	340	1	95	0,416	0,03952000	0,9	0,44	0,13	0,04	255	1,24827E-05	30	1995	38,39	255	255	20	1	20	1	1	1	1	0,98	1	249,90	OK	0,032%
	Line 21-20	CU 21	CU 20	ARE4H5EX	Single core in aluminium	3x	1	X	120	258	284	1	120	0,333	0,03996000	0,9	0,44	0,12	0,03	291	1,09385E-05	30	3495	67,26	291	291	20	1	20	1	1	1	1	0,98	1	285,18	OK	0,039%
	Line 20-19	CU 20	CU 19	ARE4H5EX	Single core in aluminium	3x	1	X	150	298	328	1	150	0,27	0,04050000	0,9	0,44	0,12	0,04	324	9,82438E-06	30	4995	96,13	324	324	20	1	20	1	1	1	1	0,98	1	317,52	OK	0,054%
	Line 19-18	CU 19	CU 18	ARE4H5EX	Single core in aluminium	3x	1	X	185	236	260	1	185	0,218	0,04033000	0,9	0,44	0,11	0,03	368	8,64973E-06	30	6495	125,00	368	368	20	1	20	1	1	1	1	0,98	1	360,64	OK	0,046%
	Line 18-17	CU 18	CU 17	ARE4H5EX	Single core in aluminium	3x	1	X	240	137	151	1	240	0,168	0,04032000	0,9	0,44	0,11	0,02	426	7,47206E-06	30	6795	130,77	426	426	20	1	20	1	1	1	1	0,97	1	413,22	OK	0,023%
	Line 17-SSE	CU 17	SSE	ARE4H5E	Single core in aluminium	3x	1	X	630	9230	10153	1	630	0,0739	0,04655700	0,9	0,44	0,099	1,01	0,37	0,00860297	30	8295	159,64	709	709	20	4	40	1	1	1	1	0,97	1	687,73	OK	1,026%
																																						1,220%
CLUSTER 2	Line 16-15	CU 16	CU 15	ARE4H5EX	Single core in aluminium	3x	1	X	95	435	478,5	1	95	0,416	0,03952000	0,9	0,44	0,13	0,06	255	1,24827E-05	30	1500	28,87	255	255	20	1	20	1	1	1	1	0,98	1	249,90	OK	0,034%
	Line 15-14	CU 15	CU 14	ARE4H5EX	Single core in aluminium	3x	1	X	120	113	124	1	120	0,333	0,03996000	0,9	0,44	0,12	0,01	291	1,09385E-05	30	2000	38,49	291	291	20	1	20	1	1	1	1	0,98	1	285,18	OK	0,010%
	Line 14-13	CU 14	CU 13	ARE4H5EX	Single core in aluminium	3x	1	X	150	215,5	237	1	150	0,27	0,04050000	0,9	0,44	0,12	0,03	324	9,82438E-06	30	2500	48,11	324	324	20	1	20	1	1	1	1	0,98	1	317,52	OK	0,019%
	Line 13,12	CU 13	CU 12	ARE4H5EX	Single core in aluminium	3x	1	X	185	109	120	1	185	0,218	0,04033000	0,9	0,44	0,11	0,01	368	8,64973E-06	30	4000	76,98	368	368	20	1	20	1	1	1	1	0,98	1	360,64	OK	0,013%
	Line 12-11	CU 12	CU 11	ARE4H5EX	Single core in aluminium	3x	1	X	240	73	80	1	240	0,168	0,04032000	0,9	0,44	0,11	0,01	426	7,47206E-06	30	5500	105,85	426	426	20	1	20	1	1	1	1	0,97	1	413,22	OK	0,010%
	Line 11-SSE	CU 11	SSE	ARE4H5E	Single core in aluminium	3x	1	X	300	8210	9031	1	300	0,136	0,04080000	0,9	0,44	0,11	0,99	0,27	0,011789255	30	5800	111,62	480	480	20	4	20	1	1	1	0,8	0,97	1	367,82	OK	0,991%
																																						1,078%
CLUSTER 3	Line 6-7	CU 6	CU 7	ARE4H5EX	Single core in aluminium	3x	1	X	95	4	4	1	95	0,416	0,03952000	0,9	0,44	0,13	0	255	1,24827E-05	30	1995	38,39	255	255	20	1	20	1	1	1	1	0,98	1	249,90	OK	0,000%
	Line 7-8	CU 7	CU 8	ARE4H5EX	Single core in aluminium	3x	1	X	120	142	156	1	120	0,333	0,03996000	0,9	0,44	0,12	0,02	291	1,09385E-05	30	3990	76,79	291	291	20	1	20	1	1	1	1	0,98	1	285,18	OK	0,024%
	Line 8-5	CU 8	CU 5	ARE4H5EX	Single core in aluminium	3x	1	X	150	6	7	1	150	0,27	0,04050000	0,9	0,44	0,12	0	324	9,82438E-06	30	5985	115,18	324	324	20	1	20	1	1	1	1	0,98	1	317,52	OK	0,001%
	Line 5-4	CU 5	CU 4	ARE4H5EX	Single core in aluminium	3x	1	X	185	232	255	1	185	0,218	0,04033000	0,9	0,44	0,11	0,03	368	8,64973E-06	30	7980	153,58	368	368	20	1	20	1	1	1	1	0,98	1	360,64	OK	0,055%
	Line 4-2	CU 4	CU 3	ARE4H5EX	Single core in aluminium	3x	1	X	240	109	120	1	240	0,168	0,04032000	0,9	0,44	0,11	0,01	426	7,47206E-06	30	8978	172,78	426	426	20	1	20	1	1	1	1	0,97	1	413,22	OK	0,024%
	Line 4-2	CU 3	CU 2	ARE4H5EX	Single core in aluminium	3x	1	X	240	93	102	1	240	0,168	0,04032000	0,9	0,44	0,11	0,01	426	7,47206E-06	30	10478	201,65	426	426	20	1	20	1	1	1	1	0,97	1	413,22	OK	0,024%
	Line 2-1	CU 2	CU 1	ARE4H5EX	Single core in aluminium	3x	1	X	300	174	191	1	300	0,136	0,04080000	0,9	0,44	0,11	0,02	480	6,63146E-06	30	12473	240,04	480	480	20	1	20	1	1	1	1	0,97	1	465,60	OK	0,045%
	Line 1-10	CU 1	CU 10	ARE4H5E	Single core in aluminium	3x	1	X	400	416	458	1	400	0,109	0,04360000	0,9	0,44	0,11	0,05	0,29	0,010976203	30	12973	249,67	549	549	20	1	20	1	1	1	1	0,97	1	532,53	OK	0,096%
	Line 10-9	CU 10	CU 9	ARE4H5E	Single core in aluminium	3x	1	X	500	182	200	1	500	0,089	0,04450000	0,9	0,44	0,1	0,02	0,32	0,009947184	30	13273	255,44	624	624	20	1	20	1	1	1	1	0,97	1	605,28	OK	0,037%
	Line 9-SSE	CU 9	SSE	ARE4H5E	Single core in aluminium	3x	1	X	630	6850	7535	1	630	0,0739	0,04655700	0,9	0,44	0,099	0,75	0,37	0,00860297	30	15268	293,83	709	709	20	4	40	1,25	1	1	1	0,95	1	673,55	OK	1,402%
																																						1,709%
CU	Line T1	MV/LV Transformer CU 1	Switchgear C	ARE4H5EX	Single core in aluminium	3x	1	X	95	10	11	1	95	0,416	0,03952000	0,9	0,44	0,13	0	255	1,24827E-05	30	500	9,62	255	255	20	1	20	1	1	1	1	0,97	1	247,35	OK	**0,0003%**
	Line T2	MV/LV Transformer CU 2	Switchgear C	ARE4H5EX	Single core in aluminium	3x	1	X	95	10	11	1	95	0,416	0,03952000	0,9	0,44	0,13	0	255	1,24827E-05	30	2000	38,49	255	255	20	1	20	1	1	1	1	0,97	1	247,35	OK	**0,0011%**
	Line T3	MV/LV Transformer CU 3	Switchgear C	ARE4H5EX	Single core in aluminium	3x	1	X	95	10	11	1	95	0,416	0,03952000	0,9	0,44	0,13	0	255	1,24827E-05	30	1500	28,87	255	255	20	1	20	1	1	1	1	0,97	1	247,35	OK	**0,0008%**
	Line T4	MV/LV Transformer CU 4	Switchgear C	ARE4H5EX	Single core in aluminium	3x	1	X	95	10	11	1	95	0,416	0,03952000	0,9	0,44	0,13	0	255	1,24827E-05	30	1000	19,25	255	255	20	1	20	1	1	1	1	0,97	1	247,35	OK	**0,0005%**
	Line T5	MV/LV Transformer CU 5	Switchgear C	ARE4H5EX	Single core in aluminium	3x	1	X	95	10	11	1	95	0,416	0,03952000	0,9	0,44	0,13	0	255	1,24827E-05	30	2000	38,49	255	255	20	1	20	1	1	1	1	0,97	1	247,35	OK	**0,0011%**
	Line T6	MV/LV Transformer CU 6	Switchgear C	ARE4H5EX	Single core in aluminium	3x	1	X	95	10	11	1	95	0,416	0,03952000	0,9	0,44	0,13	0	255	1,24827E-05	30	2000	38,49	255	255	20	1	20	1	1	1	1	0,97	1	247,35	OK	**0,0011%**
	Line T7	MV/LV Transformer CU 7	Switchgear C	ARE4H5EX	Single core in aluminium	3x	1	X	95	10	11	1	95	0,416	0,03952000	0,9	0,44	0,13	0	255	1,24827E-05	30	2000	38,49	255	255	20	1	20	1	1	1	1	0,97	1	247,35	OK	**0,0011%**
	Line T8	MV/LV Transformer CU 8	Switchgear C	ARE4H5EX	Single core in aluminium	3x	1	X	95	10	11	1	95	0,416	0,03952000	0,9	0,44	0,13	0	255	1,24827E-05	30	2000	38,49	255	255	20	1	20	1	1	1	1	0,97	1	247,35	OK	**0,0011%**
	Line T9	MV/LV Transformer CU 9	Switchgear C	ARE4H5EX	Single core in aluminium	3x	1	X	95	10	11	1	95	0,416	0,03952000	0,9	0,44	0,13	0	255	1,24827E-05	30	2000	38,49	255	255	20	1	20	1	1	1	1	0,97	1	247,35	OK	**0,0011%**
	Line T10	MV/LV Transformer CU 10	Switchgear C	ARE4H5EX	Single core in aluminium	3x	1	X	95	10	11	1	95	0,416	0,03952000	0,9	0,44	0,13	0	255	1,24827E-05	30	300	5,77	255	255	20	1	20	1	1	1	1	0,97	1	247,35	OK	**0,0002%**
	Line T11	MV/LV Transformer CU 11	Switchgear C	ARE4H5EX	Single core in aluminium	3x	1	X	95	10	11	1	95	0,416	0,03952000	0,9	0,44	0,13	0	255	1,24827E-05	30	300	5,77	255	255	20	1	20	1	1	1	1	0,97	1	247,35	OK	**0,0002%**
	Line T12	MV/LV Transformer CU 12	Switchgear C	ARE4H5EX	Single core in aluminium	3x	1	X	95	10	11	1	95	0,416	0,03952000	0,9	0,44	0,13	0	255	1,24827E-05	30	1500	28,87	255	255	20	1	20	1	1	1	1	0,97	1	247,35	OK	**0,0008%**
	Line T13	MV/LV Transformer CU 13	Switchgear C	ARE4H5EX	Single core in aluminium	3x	1	X	95	10	11	1	95	0,416	0,03952000	0,9	0,44	0,13	0	255	1,24827E-05	30	1500	28,87	255	255	20	1	20	1	1	1	1	0,97	1	247,35	OK	**0,0008%**
	Line T14	MV/LV Transformer CU 14	Switchgear C	ARE4H5EX	Single core in aluminium	3x	1	X	95	10	11	1	95	0,416	0,03952000	0,9	0,44	0,13	0	255	1,24827E-05	30	500	9,62	255	255	20	1	20	1	1	1	1	0,97	1	247,35	OK	**0,0003%**
	Line T15	MV/LV Transformer CU 15	Switchgear C	ARE4H5EX	Single core in aluminium	3x	1	3	95	10	11	1	95	0,416	0,03952000	0,9	0,44	0,13	0	255	1,24827E-05	30	500	9,62	255	255	20	1	20	1	1	1	1	0,97	1	247,35	OK	**0,0003%**
	Line T16	MV/LV Transformer CU 16	Switchgear C	ARE4H5EX	Single core in aluminium	3x	1	X	95	10	11	1	95	0,416	0,03952000	0,9	0,44	0,13	0	255	1,24827E-05	30	1500	28,87	255	255	20	1	20	1	1	1	1	0,97	1	247,35	OK	**0,0008%**
	Line T17	MV/LV Transformer CU 17	Switchgear C	ARE4H5EX	Single core in aluminium	3x	1	X	95	10	11	1	95	0,416	0,03952000	0,9	0,44	0,13	0	255	1,24827E-05	30	1500	28,87	255	255	20	1	20	1	1	1	1	0,97	1	247,35	OK	**0,0008%**
	Line T18	MV/LV Transformer CU 18	Switchgear C	ARE4H5EX	Single core in aluminium	3x	1	X	95	10	11	1	95	0,416	0,03952000	0,9	0,44	0,13	0	255	1,24827E-05	30	300	5,77	255	255	20	1	20	1	1	1	1	0,97	1	247,35	OK	**0,0002%**
	Line T19	MV/LV Transformer CU 19	Switchgear C	ARE4H5EX	Single core in aluminium	3x	1	X	95	10	11	1	95	0,416	0,03952000	0,9	0,44	0,13	0	255	1,24827E-05	30	1500	28,87	255	255	20	1	20	1	1	1	1	0,97	1	247,35	OK	**0,0008%**
	Line T20	MV/LV Transformer CU 20	Switchgear C	ARE4H5EX	Single core in aluminium	3x	1	X	95	10	11	1	95	0,416	0,03952000	0,9	0,44	0,13	0	255	1,24827E-05	30	1500	28,87	255	255	20	1	20	1	1	1	1	0,97	1	247,35	OK	**0,0008%**
	Line T21	MV/LV Transformer CU 21	Switchgear C	ARE4H5EX	Single core in aluminium	3x	1	X	95	10	11	1	95	0,416	0,03952000	0,9	0,44	0,13	0	255	1,24827E-05	30	1500	28,87	255	255	20	1	20	1	1	1	1	0,97	1	247,35	OK	**0,0008%**
	Line T22	MV/LV Transformer CU 22	Switchgear C	ARE4H5EX	Single core in aluminium	3x	1	X	95	10	11	1	95	0,416	0,03952000	0,9	0,44	0,13	0	255	1,24827E-05	30	2000	38,49	255	255	20	1	20	1	1	1	1	0,97	1	247,35	OK	**0,0011%**