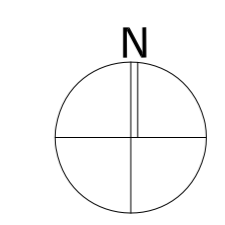


CABLING CALCULATION "Original"

MODULE DATA SHEET		GP - Inverter Electrical Characteristics		Voltage drop from Strings in GPS			
Module Type	REC Solar RECIPRO 600	DC Volt	1161.42 V	Modules for each string	30.00		
Peak Power (Pm)	575.00	DC Volt	1382.20 V	Line per GP	10.00		
Open Circuit Voltage (Voc)	53.20	Current	128.80 A	String per GP	3.00		
Optimum Operating Voltage (Vmp)	44.67			Medium Resistance	0.1719 Ω		
Current (Imp)	12.88	Temperature Coefficient Voltage (β)	-0.295 V/V/°C	Section Line	13.00mm		
Temperature Coefficient Current (α)	0.048 A/V/°C	Temperature Drop at STC	0.19 %	Voltage Drop at STC	0.17 %		
		Temperature Drop at 55°C	0.17 %	Voltage Drop at 10°C	0.17 %		
CHARACTERISTICS FOR ONE STRING							
Modules for each 1	30.00						
Voltage	Vmp	1161.42					
Current	Imp	12.88					
Peak Power (Pm)	Wp	14.55					
FINAL DATA							
String to the	N°	360					
Power of all strings	(Ppeak)	5382.00 Wp					
Total Modules	N°	3240					
GPS = Solar String Box							
VALUES VERIFICATION FOR ONE GPS TO INVERTER		SWL: SUPER 8000 DCV					
Estimation of the minimum voltage Vmp: For a temperature of the modules that are 55°C	1291.82V	MIN MPPT VOLTAGE	849 V				
Estimation of the maximum current Imp: For a temperature of the modules that are 55°C	131.27 A	MAX MPPT VOLTAGE	1325 Vdc				
Estimation of the minimum voltage Vmp: For a temperature of the modules that are 10°C	1161.42V						
Estimation of the maximum current Imp: For a temperature of the modules that are 10°C	1247.85V						
CALCULATION OF THE VOLTAGE DROP ON THE CABLES STC							
CODE	N° OF STRINGS TO GPS	AREAS	MAXIMUM LENGTH	LINE SECTION	VOLTAGE DROP FROM GP TO INVERTER	TOTAL VOLTAGE DROP	NUMBER OF AREAS IN THE PV FIELD
SC01	10	A.01	180.00	95	0.79	1.00	1
SC02	10	A.02	192.00	100	0.83	1.00	2
SC03	10	A.03	314.00	150	0.83	1.00	3
SC04	10	A.04	230.00	120	0.83	1.00	4
SC05	10	A.05	420.00	190	0.83	1.10	5
SC06	10	A.06	276.00	130	0.83	1.10	6
SC07	10	A.07	212.00	95	0.88	1.10	7
SC08	10	A.08	160.00	70	0.88	1.10	8
SC09	10	A.09	160.00	70	0.88	1.10	9
SC10	10	A.10	342.00	150	0.89	1.10	10
SC11	10	A.11	206.00	100	0.89	1.10	11
SC12	10	A.12	271.00	95	0.89	1.20	12
SC13	10	A.13	150.00	70	0.89	1.20	13
SC14	10	A.14	289.00	120	0.88	1.10	14
SC15	10	A.15	289.00	120	0.88	1.10	15
SC16	10	A.16	145.00	70	0.82	1.00	16
SC17	10	A.17	145.00	70	0.82	1.00	17
SC18	10	A.18	245.00	100	0.81	1.00	18
SC19	10	A.19	245.00	100	0.81	1.00	19
SC20	10	A.20	184.00	95	0.79	1.00	20
SC21	10	A.21	77.00	35	0.87	1.10	21
SC22	10	A.22	222.00	100	0.81	1.10	22
SC23	10	A.23	210.00	95	0.87	1.10	23
SC24	10	A.24	144.00	70	0.84	1.10	24
SC25	10	A.25	104.00	50	0.82	1.00	24
SC26	10	A.26	299.00	120	0.84	1.20	25
SC27	10	A.27	219.00	95	0.89	1.20	25
SC28	10	A.28	177.00	70	0.82	1.10	26
SC29	10	A.29	289.00	120	0.85	1.10	27
SC30	10	A.30	441.00	190	0.82	1.00	28
SC31	10	A.31	197.00	70	0.84	1.10	28
SC32	10	A.32	221.00	95	0.83	1.00	29
SC33	10	A.33	197.00	70	0.84	1.10	29
SC34	10	A.34	242.00	100	0.85	1.00	30
SC35	10	A.35	253.00	120	0.83	1.00	30

MEDIAN VALOR	1.587 %
MINIMA VALOR	1.000 %
MAXIMA VALOR	1.200 %

- 1. LEGENDA**
- ☐ DORSALE QUADRO_01
 - ☐ DORSALE QUADRO_02
 - ☐ DORSALE QUADRO_03
 - ☐ DORSALE QUADRO_04
 - ☐ DORSALE QUADRO_05
 - ☐ DORSALE QUADRO_06
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 - ☐ DORSALE QUADRO_09
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 - ☐ DORSALE QUADRO_34
 - ☐ DORSALE QUADRO_35
 - ☐ DORSALE QUADRO_36



CERIGNOLA REGIONE PUGLIA PROVINCIA DI FOGGIA

IMPIANTO AGRIVOLTAICO E RELATIVE OPERE ED INFRASTRUTTURE CONNESSE DELLA POTENZA ELETTRICA DI 140,66 MW (ex 120MW) SITO NEL COMUNE DI CERIGNOLA
 PROGETTO DEFINITIVO

Layout Campo "B". Sottocampo 6
Dimensionamento delle dorsali-Tabella calcolo dorsali

Propositore: **CERIGNOLA SOLAR 2 S.R.L.**
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 37122 Verona
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 cerignolasolar2@pec.it

Progettazione: **WH Group s.r.l.**
 Via A. Locatelli n. 1 - 37122 Verona (VR)
 P.IVA 12336131003
 ingegneri@enitgroup.eu



Spazio riservato agli Enti:

File: PE17Q40_EbboneroGrfico_4.2.9_4.43 Cod. PE17Q40 Scab: 1500

Rev.	Data	Descrizione	Redatto	Approvato
00	08/03/2022	V.I.A. Preliminare	A. Tartaglia	S.M. Caputo

4.2.9_4.43

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