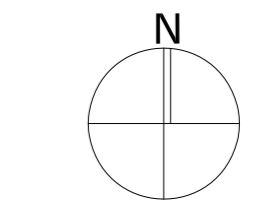


- 1. LEGENDA**
- AREA 01
  - AREA 02
  - AREA 03
  - AREA 04
  - AREA 05
  - AREA 06
  - AREA 07
  - AREA 08
  - AREA 09
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  - AREA 32
  - AREA 33
  - AREA 34
  - AREA 35
  - AREA 36

MODULE DATA SHEET				GP - Inverter Electrical Characteristics		Voltage drop from Strings to GPS	
MODULE TYPE	REC LOW / REC HIGH	44.87	575.00	DC OUT	1181.42 V	Modules for each string	28.00
Peak Power (Pm)	(Wp)	575.00	575.00	Voc OUT	1352.00 V	Line per GP	10
Open Circuit Voltage (Voc)	(V)	53.20	53.20	Isc	128.80 A	Strings per GP	10.00
Optimum Operating Voltage (Vmp)	(V)	44.87	44.87	Medium Length	4.45 m	Medium Resistance	0.1719 Ω
Current (Imp)	(A)	12.88	12.88	Section Line	10 mmq	Voltage Drop at 50°C	0.15 %
Temperature Coefficient Voltage (β)		0.280 V/V°C		Voltage Drop at 65°C	0.17 %	Voltage Drop at -10°C	0.17 %
Temperature Coefficient Current (α)		0.048 A/V°C					
CHARACTERISTICS FOR ONE STRING							
Modules for each 1	N°	26.00					
Voltage	Vmp	1161.42					
Current	A	12.88					
Peak Power (Pm)	kWp	14.95					
FINAL DATA							
String to Inv	N°	316					
Power of all Strings	(Peak)	4709.25 kWp					
Total Modules	N°	8190					
VALUES VERIFICATION FOR ONE GPS TO INVERTER				INV - Sunny Central 4000-5V			
Estimation of the minimum voltage Vmp	1291.50V	MIN MPPT VOLTAGE	849 V				
Estimation of the maximum current Imp	131.27 A						
Estimation of the maximum voltage Voc	1161.42V	MAX MPPT VOLTAGE	1325 Vdc				
Estimation of the minimum current Imp	126.64 A						
Estimation of the maximum voltage Voc	1247.65V	MAXIMUM VOLTAGE	1500 Vdc				
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 PLANT
SC-01	8	A-01	147.00	50	0.75	0.80	1
SC-02	8	A-02	88.00	35	0.50	1.10	2
SC-03	8	A-03	70.00	25	1.00	1.20	3
SC-04	8	A-04	130.00	50	0.85	1.10	4
SC-05	8	A-05	176.00	70	0.97	1.10	5
SC-06	8	A-06	212.00	85	0.79	1.00	6
SC-07	8	A-07	209.00	85	0.79	1.00	7
SC-08	8	A-08	151.00	70	0.77	1.00	8
SC-09	8	A-09	101.00	50	0.72	0.90	9
SC-10	8	A-10	131.00	50	0.83	1.10	10
SC-11	8	A-11	182.00	70	0.93	1.10	11
SC-12	8	A-12	240.00	85	0.80	1.10	12
SC-13	8	A-13	271.00	100	0.82	1.00	13
SC-14	8	A-14	213.00	85	0.80	1.00	14
SC-15	8	A-15	162.00	70	0.82	1.00	15
SC-16	8	A-16	162.00	70	0.88	1.20	16
SC-17	8	A-17	245.00	85	0.92	1.10	17
SC-18	8	A-18	302.00	100	0.80	1.10	18
SC-19	8	A-19	384.00	120	0.80	1.10	19
SC-20	8	A-20	333.00	100	0.89	1.20	20
SC-21	8	A-21	276.00	100	0.82	1.00	21
SC-22	8	A-22	222.00	85	0.85	1.00	22
SC-23	8	A-23	253.00	85	0.85	1.10	23
SC-24	8	A-24	307.00	100	0.81	1.10	24
SC-25	8	A-25	364.00	100	0.86	1.10	24
SC-26	8	A-26	288.00	100	0.84	1.10	24
SC-27	8	A-27	366.00	100	0.84	1.10	24
SC-28	8	A-28	339.00	100	0.80	1.00	25
SC-29	8	A-29	283.00	100	0.84	1.00	25
SC-30	7	A-30	313.00	85	0.81	1.10	27
SC-31	8	A-31	370.00	100	0.88	1.10	28
SC-32	8	A-32	420.00	100	0.90	1.10	29
SC-33	7	A-33	457.00	100	0.84	1.00	30
SC-34	7	A-34	458.00	100	0.85	1.00	31
SC-35	8	A-35	402.00	100	0.85	1.00	32
SC-36	8	A-36	344.00	100	0.91	1.10	33

MEAN VALUE	1.813 %
MINIMUM VALUE	0.800 %
MAXIMUM VALUE	1.200 %



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 "A1" - Sottocampo 10 - Dimensionamento delle dorsali-Tabella calcolo dorsali**

Proprietario: CERIGNOLA SOLAR 2 S.R.L.  
Via Antonio Locatelli n.1  
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cerignolasolar2@pec.it

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

Spazio riservato agli Enti:

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

4.2.9\_2.71

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