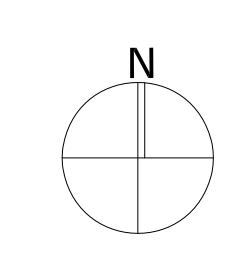
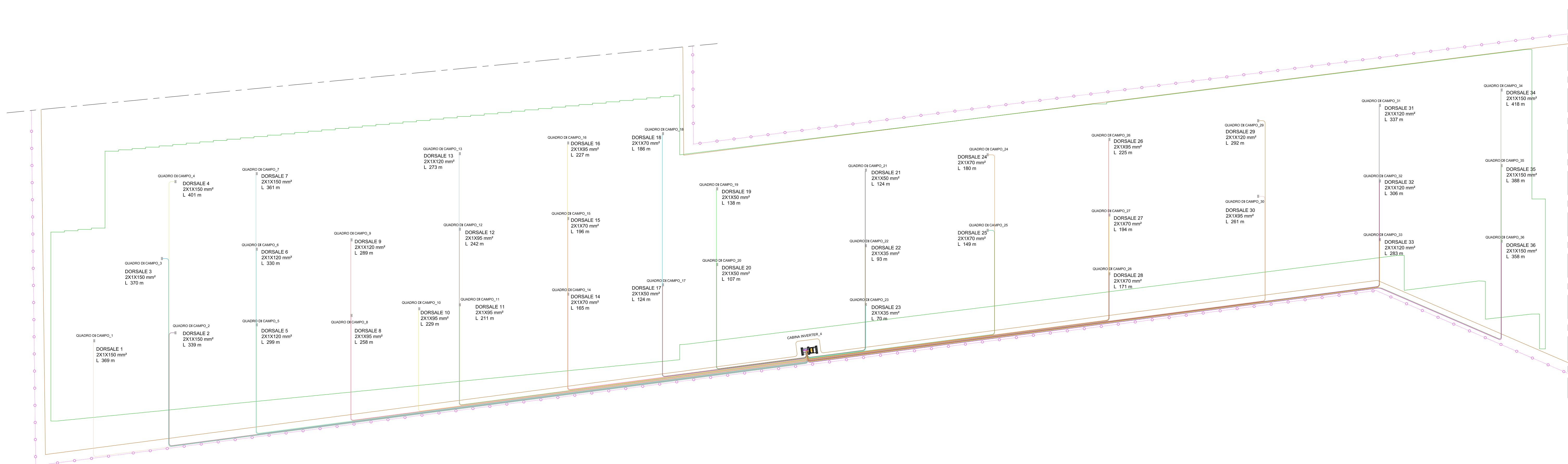


1. LEGENDA

- ☐ DORSALE QUADRO_01
- ☐ DORSALE QUADRO_02
- ☐ DORSALE QUADRO_03
- ☐ DORSALE QUADRO_04
- ☐ DORSALE QUADRO_05
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- ☐ DORSALE QUADRO_34
- ☐ DORSALE QUADRO_35
- ☐ DORSALE QUADRO_36

MODULE DATA SHEET				CABLE CALCULATION: "Cerignola"		GP - Inverter Electrical Characteristics		Voltage drop from strings to GPS	
MODULE TYPE	REC Solar RECPOE 60x	GP - Inverter	151.42 V	Modules per array string	20				
Peak Power (Pm)	370	Characteristics at STC	Vc-Vt	130.20 V	Line per GP	10.00			
Open Circuit Voltage (Voc)	47.50		Isc	12.80 A	String length	5.45 m			
Optimum Operating Voltage (Vmp)	44.67				Medium Resistance	0.178 Ω			
Current (Imp)	12.88				Section Line	10 mm			
Temperature Coefficient Voltage (β)	-0.200 V/V/°C				Voltage Drop at STC	0.19 %			
Temperature Coefficient Current (α)	0.048 A/V/°C				Voltage Drop at 60°C	0.17 %			
CHARACTERISTICS FOR ONE STRING									
Modules for each I	N	20.00							
Voltage	Vstring	1161.42							
Current	A	12.88							
Peak Power (Pm)	Wp	1435							
FINAL DATA									
String to In	N	807							
Power of all Strings	Pmax	488.55 kWp							
Total Modules	N	8002							
VALUES VERIFICATION FOR ONE GPS TO INVERTER				SMB: Safety Data Sheet 2000EV					
Estimation of the minimum voltage Vmpg For a temperature of the modules that are 0°C	1291.50V	MIN MPPT VOLTAGE	840 V						
Estimation of the maximum current Impg For a temperature of the modules that are 0°C	131.27 A								
Estimation of the maximum mppt voltage Voc For a temperature of the modules that are 0°C	1161.42V	MAX MPPT VOLTAGE	1325 Vdc						
Estimation of the minimum current Imp For a temperature of the modules that are 0°C	128.84 A								
Estimation of the maximum voltage Voc For a temperature of the modules that are -10°C	1247.65V	MAXIMUM VOLTAGE	1500 Vdc						
CALCULATION OF THE VOLTAGE DROP ON THE CABLES ETC									
CODE	N° OF STRINGS TO GPS	AREAS	MAXIMUM LENGTH	LINE SECTION	VOLTAGE DROP FROM GPS TO INVERTER	TOTAL VOLTAGE DROP	NUMBER OF AREAS IN THE PV PLANT		
SC-01	9	A-01	360.00	150	0.06	1.70	2		
SC-02	9	A-02	330.00	150	0.06	1.70	2		
SC-03	9	A-03	330.00	150	0.06	1.70	2		
SC-04	9	A-04	400.00	150	0.06	1.70	4		
SC-05	9	A-05	330.00	150	0.06	1.70	2		
SC-06	9	A-06	330.00	150	0.06	1.70	2		
SC-07	9	A-07	300.00	150	0.06	1.70	2		
SC-08	9	A-08	240.00	150	0.06	1.70	2		
SC-09	9	A-09	280.00	150	0.06	1.70	2		
SC-10	9	A-10	270.00	150	0.06	1.70	2		
SC-11	9	A-11	210.00	150	0.06	1.70	2		
SC-12	9	A-12	240.00	150	0.06	1.70	2		
SC-13	9	A-13	220.00	150	0.06	1.70	2		
SC-14	9	A-14	220.00	150	0.06	1.70	2		
SC-15	9	A-15	180.00	150	0.06	1.70	2		
SC-16	9	A-16	220.00	150	0.06	1.70	2		
SC-17	9	A-17	140.00	150	0.06	1.70	2		
SC-18	9	A-18	180.00	150	0.06	1.70	2		
SC-19	9	A-19	180.00	150	0.06	1.70	2		
SC-20	9	A-20	180.00	150	0.06	1.70	2		
SC-21	9	A-21	120.00	150	0.06	1.70	2		
SC-22	9	A-22	120.00	150	0.06	1.70	2		
SC-23	10	A-23	70.00	70	0.74	1.00	23		
SC-24	9	A-24	150.00	150	0.06	1.70	24		
SC-25	9	A-25	140.00	70	0.74	1.00	24		
SC-26	9	A-26	270.00	150	0.06	1.70	24		
SC-27	9	A-27	190.00	70	0.66	1.20	24		
SC-28	10	A-28	170.00	150	0.06	1.70	25		
SC-29	9	A-29	200.00	150	0.06	1.70	25		
SC-30	9	A-30	200.00	150	0.06	1.70	25		
SC-31	9	A-31	230.00	150	0.06	1.70	25		
SC-32	9	A-32	300.00	150	0.06	1.70	29		
SC-33	10	A-33	200.00	150	0.06	1.70	29		
SC-34	9	A-34	410.00	150	0.06	1.70	31		
SC-35	9	A-35	380.00	150	0.06	1.70	31		
SC-36	9	A-36	350.00	150	0.06	1.70	33		

MEDIAN VALOR	1.800 %
MINIMUM VALOR	1.200 %
MAXIMUM VALOR	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 "B" - Sottocampo 4
Dimensionamento delle dorsali-Tabella calcolo dorsali

Proponente: CERIGNOLA SOLAR 2 S.R.L.
Via Antonio Locatelli n.1
37122 Verona
P.IVA 04741630232
cerignolasolar2@pec.it

Progettazione: WH Group s.r.l.
Via A. Locatelli n. 1 - 37122 Verona (VR)
P.IVA 13336131003
ingegneris@entgroup.eu

Spazio riservato agli Enti:

File: PE17Q0_EditorioGrifo_4.2.9_4.29	Cod. PE17Q0	Scala 1:800		
Rev.	Data	Descrizione	Redatto	Approvato
00	08/01/2022	V.I.A. Prezentale	A. Tartaglia	S.M. Caputo
4.2.9_4.29				
CERIGNOLA SOLAR 2 S.R.L. Via Antonio Locatelli n.1 37122 Verona cerignolasolar2@pec.it				