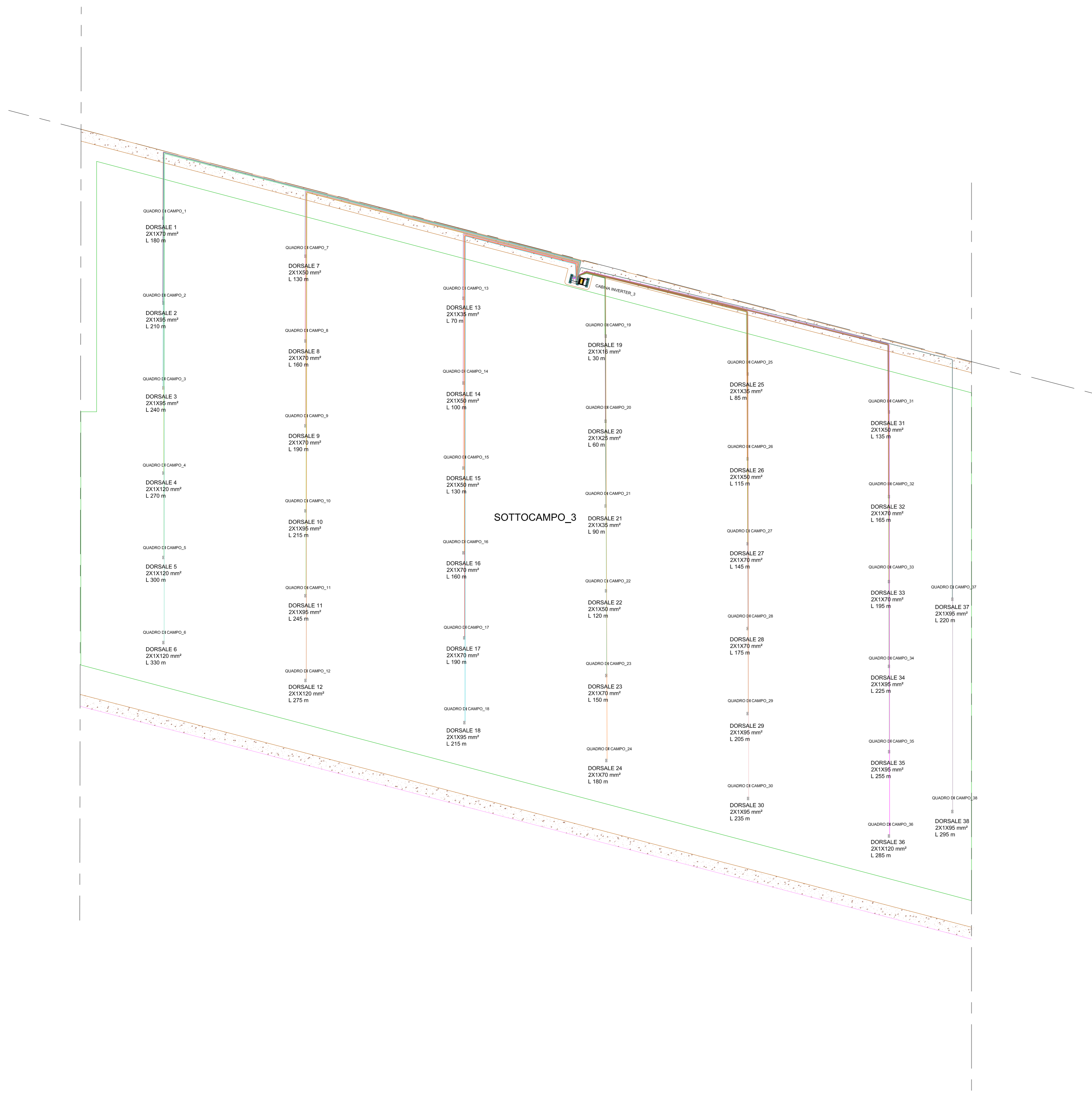


1. LEGENDA

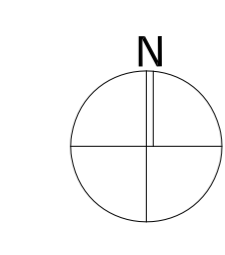
- ☒ DORSALE QUADRO\_01
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- ☒ DORSALE QUADRO\_38



MODULE DATA SHEET		QP - Inverter Electrical Characteristics		Voltage drop from Strings to QPS	
MODULE TYPE	REC Solar / REC24SP5 BLK	Ur OUT	1161.42 V	Modules for each strings	26.00
Peak Power (Pm)	(Wp)	Vo OUT	1363.20 V	Line per QP	10
Open Circuit Voltage (Voc)	(V)	I	128.80 A	Strings per QP	10.00
Optimum Operating Voltage (Vmp)	(V)			Medium Length	<= 45 m
Corrente (Imp)	(A)			Medium Resistance	0.1719 Ω
Temperature Coefficients Voltage (β)	-0.280 V%/°C			Section Line	10 mmq
Temperature Coefficients Current (α)	0.048 A%/°C			Voltage Drop at STC	0.19 %
CHARACTERISTICS FOR ONE STRING				Voltage Drop at 65°C	0.17 %
Modules for each 1	N°			Voltage Drop at -10°C	0.17 %
Voltage	Vmpp				
Current	A				
Peak Power (Pm)	kWp				
FINAL DATA					
String to Inv.	N°				
Power of all Strings	(Peak)				
Total Modules	N°				
VALUES VERIFICATION FOR ONE QPS TO INVERTER		SMA: Sunny Central 4400-EV			
Estimation of the minimum voltage Vmpp. For a temperature of the modules that are 65°C	1291.50V	MIN MPPT VOLTAGE	849 V		
Estimation of the maximum current Imp. For a temperature of the modules that are 65°C	131.27 A	MAX MPPT VOLTAGE	1325 Vdc		
Estimation of the maximum mppt voltage Voc. For a temperature of the modules that are STC	1161.42V				
Estimation of the minimum current Imp. For a temperature of the modules that are -10°C	126.64 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 STC							
CODE	N° OF STRINGS TO QPS	AREAS	MAXIMUM LENGHT	LINE SECTION	VOLTAGE DROP FROM QP TO INVERTER	TOTAL VOLTAGE DROP	NUMBER OF AREAS IN THE PV PLANT
					%		
SC.01	9	A.01	205.00	70	0.92	1.10	1
SC.02	9	A.02	235.00	95	0.79	1.00	2
SC.03	9	A.03	265.00	95	0.90	1.10	3
SC.04	9	A.04	295.00	120	0.80	1.00	4
SC.05	9	A.05	325.00	120	0.89	1.10	5
SC.06	9	A.06	355.00	120	0.98	1.20	6
SC.07	9	A.07	155.00	50	0.93	1.10	7
SC.08	9	A.08	185.00	70	0.81	1.00	8
SC.09	9	A.09	215.00	70	0.91	1.20	9
SC.10	9	A.10	240.00	95	0.81	1.00	10
SC.11	9	A.11	270.00	95	0.92	1.10	11
SC.12	9	A.12	300.00	120	0.82	1.00	12
SC.13	9	A.13	95.00	35	0.71	0.90	13
SC.14	9	A.14	125.00	50	0.71	0.90	14
SC.15	9	A.15	155.00	50	0.93	1.10	15
SC.16	9	A.16	185.00	70	0.81	1.00	16
SC.17	9	A.17	215.00	70	0.97	1.20	17
SC.18	9	A.18	240.00	95	0.81	1.00	18
SC.19	9	A.19	45.00	16	0.67	0.90	19
SC.20	9	A.20	85.00	25	0.85	1.00	20
SC.21	9	A.21	115.00	35	0.92	1.10	21
SC.22	9	A.22	145.00	50	0.85	1.00	22
SC.23	9	A.23	175.00	70	0.76	1.00	23
SC.24	9	A.24	205.00	70	0.92	1.10	24
SC.25	9	A.25	110.00	35	0.86	1.10	24
SC.26	9	A.26	140.00	50	0.82	1.00	24
SC.27	9	A.27	170.00	70	0.74	0.90	24
SC.28	9	A.28	200.00	70	0.89	1.10	25
SC.29	9	A.29	230.00	95	0.77	1.00	26
SC.30	9	A.30	260.00	95	0.88	1.10	27
SC.31	9	A.31	160.00	50	0.96	1.20	28
SC.32	9	A.32	190.00	70	0.84	1.00	29
SC.33	9	A.33	220.00	70	0.99	1.20	30
SC.34	9	A.34	250.00	95	0.84	1.00	31
SC.35	9	A.35	280.00	95	0.96	1.20	32
SC.36	9	A.36	310.00	120	0.85	1.00	33
SC.37	9	A.37	245.00	95	0.82	1.00	33
SC.38	6	A.38	320.00	95	0.74	0.90	33

MEDIUM VALOR	1.873 %
MINIMUM VALOR	0.900 %
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 "A2" - Sottocampo 3 - Dimensionamento delle dorsali - Tabella calcolo di 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.p.a. Via A. Locatelli n. 1 - 37122 Verona (VR) P.IVA 12336131003 ingegneria@whgroup.eu

Spazio riservato agli Enti:

File: PE17Q60_ElaboratoGrafico_4.2.9_3.22	Cod. PE17Q60	Scala: 1:800
Rev. Data Descrizione	Redatto	Approvato
00 08/03/2022 V.I.A. Planoteriale	A. Tartaglia	S.M. Caputo

4.2.9\_3.22

CERIGNOLA SOLAR 2 S.R.L. Via Antonio Locatelli n.1 37122 Verona | cerignolasolar2@pec.it