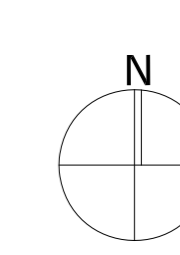
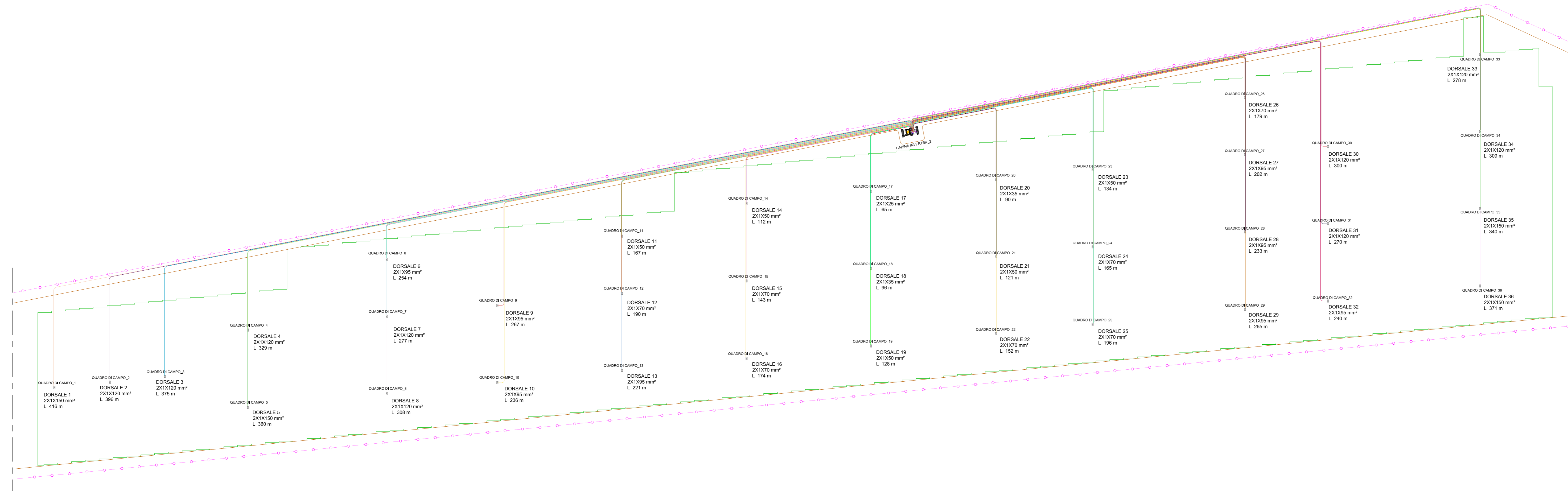


1. LEGENDA

- DORSALE QUADRO\_01
- DORSALE QUADRO\_02
- DORSALE QUADRO\_03
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- DORSALE QUADRO\_36

MODULE DATA SHEET				CABLING CALCULATION: "Cerignola"			
Module Type	REC Smart REC300P 6X	QIP - Inverter Electrical Characteristics	QPS - Inverter Characteristics	Voltage drop from Strings to QPS	Modules for each string		
Peak Power (Pm)	375.00 (Wp)	375.00	181.42 V	28.00	28.00		
Open Circuit Voltage (Voc)	53.20 (V)	53.20	1383.20 V	10	Line per QP		
Minimum Operating Voltage (Vmp)	44.67 (V)	44.67	128.80 A	10.00	Strings per QP		
Concrete (Imp)	(A)			4.45 m	Medium Length		
Temperature Co-efficients Voltage (β)	-0.280 1/K			0.1719 Ω	Medium Resistance		
Temperature Co-efficients Current (α)	0.048 1/K			10 mm	Section Line		
				0.19 %	Voltage Drop at 55°C		
				0.17 %	Voltage Drop at 65°C		
				0.17 %	Voltage Drop at -10°C		
CHARACTERISTICS FOR ONE STRING							
Modules for each 1	N°	28.00					
Voltage	Vmp	1151.42					
Current	A	12.88					
Peak Power (Pm)	KWp	14.55					
FINAL DATA							
String to Inv	N°	315					
Power of all Strings	(Peak)	4709.25 kWp					
Total Modules	N°	8798					
QPS = Smart String Box				SMA - Sunny Central 4000-UV			
VALUES VERIFICATION FOR ONE QPS TO INVERTER							
Estimation of the minimum voltage Vmp: 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 minimum current Imp: For a temperature of the modules that are 15°C	126.64 A	MAXIMUM VOLTAGE	1500 Vdc				
Estimation of the maximum voltage Voc: For a temperature of the modules that are -10°C	1247.65V						
CALCULATION OF THE VOLTAGE DROP ON THE CABLES STC							
CODE	N° OF STRINGS TO QPS	AREAS	MAXIMUM LENGTH	LINE SECTION	VOLTAGE DROP FROM STC TO INVERTER	TOTAL VOLTAGE DROP	NUMBER OF AREAS IN THE PLANT
SC 01	8	A.01	448.00	150	0.88	1.10	1
SC 02	7	A.02	390.00	120	0.91	1.10	2
SC 03	7	A.03	375.00	120	0.86	1.10	2
SC 04	9	A.04	320.00	120	0.87	1.20	4
SC 05	9	A.05	360.00	120	0.86	1.20	4
SC 06	8	A.06	254.00	95	0.84	1.00	6
SC 07	9	A.07	277.00	120	0.82	1.00	7
SC 08	9	A.08	309.00	120	0.91	1.10	8
SC 09	9	A.09	247.00	95	1.00	1.20	9
SC 10	9	A.10	238.00	85	0.88	1.10	10
SC 11	7	A.11	167.00	95	0.82	1.10	11
SC 12	9	A.12	190.00	70	0.86	1.20	12
SC 13	9	A.13	221.00	95	0.83	1.00	13
SC 14	9	A.14	112.00	50	0.80	1.00	14
SC 15	9	A.15	143.00	70	0.73	0.90	15
SC 16	9	A.16	174.00	70	0.88	1.10	16
SC 17	9	A.17	65.00	25	0.82	1.10	17
SC 18	9	A.18	86.00	35	0.97	1.20	18
SC 19	9	A.19	126.00	50	0.97	1.10	19
SC 20	9	A.20	89.00	35	0.81	1.10	20
SC 21	9	A.21	121.00	60	0.88	1.10	21
SC 22	9	A.22	151.00	70	0.83	1.10	22
SC 23	9	A.23	134.00	60	0.65	1.10	23
SC 24	9	A.24	150.00	70	0.88	1.20	24
SC 25	9	A.25	196.00	70	0.89	1.20	24
SC 26	9	A.26	179.00	70	0.83	1.00	24
SC 27	9	A.27	202.00	65	0.76	1.00	24
SC 28	9	A.28	233.00	95	0.87	1.10	26
SC 29	9	A.29	205.00	95	0.89	1.20	26
SC 30	9	A.30	300.00	120	0.88	1.10	27
SC 31	9	A.31	270.00	120	0.80	1.00	28
SC 32	9	A.32	240.00	95	0.80	1.10	29
SC 33	9	A.33	270.00	120	0.82	1.00	30
SC 34	9	A.34	309.00	120	0.91	1.10	31
SC 35	9	A.35	340.00	150	0.80	1.00	32
SC 36	9	A.36	371.00	150	0.88	1.10	33
				MEDIAN VALOR	1.940 %		
				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**

**Layout Campo "B" - Sottocampo 2 Dimensionamento delle dorsali-Tabella calcolo dorsali**

Proponente: CERIGNOLA SOLAR 2 S.R.L.  
Via Antonio Locatelli n.1 37122 Verona  
P.IVA 0471630232 cerignolsolar2@pec.it

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



Spazio riservato agli Enti:

Rev.	Data	Descrizione	Redatto	Approvato
00	08/01/2022	V.I.A. Minicorsale	A. Tartaglia	S.M. Caputo

4.2.9\_4.15

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