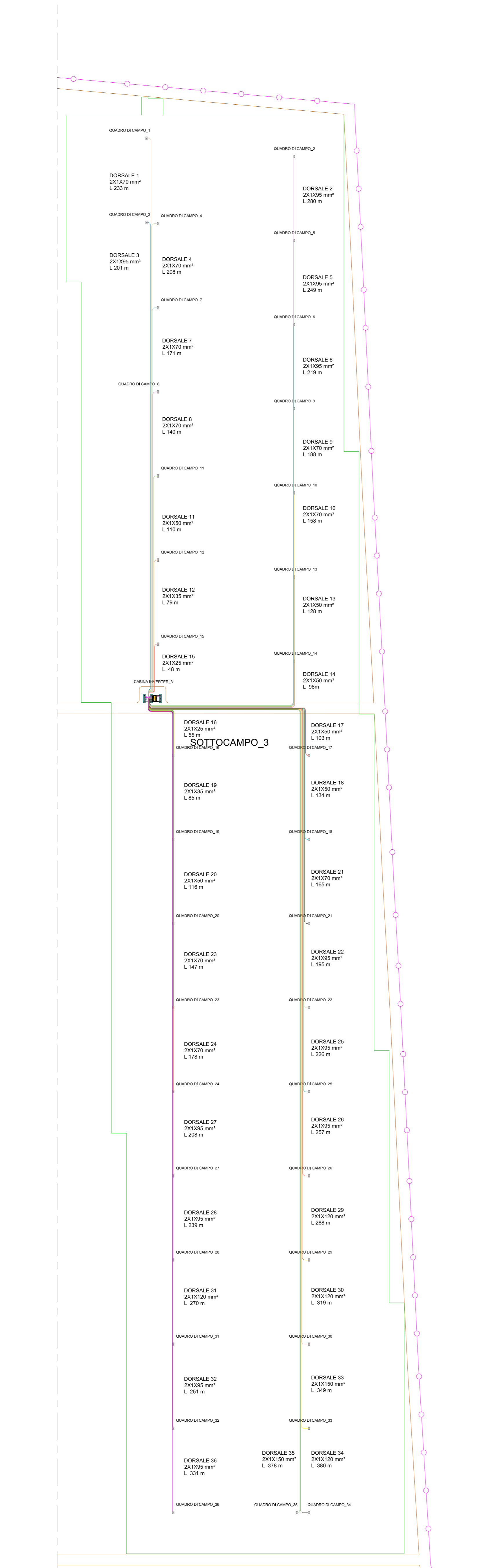


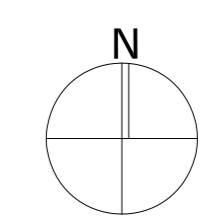
1. LEGENDA

- ☐ DORSALE QUADRO_01
- ☐ DORSALE QUADRO_02
- ☐ DORSALE QUADRO_03
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- ☐ DORSALE QUADRO_35
- ☐ DORSALE QUADRO_36



MODULE DATA SHEET				CABLING CALCULATION: "Cervignola"		GP - Inverter Electrical Characteristics		Voltage drop from strings to GPS	
MODULE TYPE	REC Solar / RECGRPE SLK	REC SOLAR	RECGRPE SLK	LINE CUT	1161.42 V	Modules for each string	20.00		
Peak Power (P _{max})	(Wp)	575.00		Characteristics at STC	1383.20 V	Line per GP	10.00		
Open Circuit Voltage (V _{oc})	(V)	32.20		V _{oc} OUT	128.80 A	Strings per GP	10.00		
Optimum Operating Voltage (V _{mp})	(V)	44.87				Medium Length	4.40 m		
Current (I _{mp})	(A)	12.88				Medium Resistance	0.1719 Ω		
Temperature Co-efficient Voltage (β)		-0.200 V/V/°C				Section Line	10 mm		
Temperature Co-efficient Current (α)		0.048 A/V/°C				Voltage Drop at STC	0.19 %		
						Voltage Drop at 65°C	0.17 %		
						Voltage Drop at -10°C	0.18 %		
CHARACTERISTICS FOR ONE STRING									
Modules for each 1	N°	20.00							
Voltage	V _{mp}	1151.42							
Current	A	12.88							
Peak Power (P _{max})	kWp	14.85							
FINAL DATA									
String to Inv	N°	310							
Power of all Strings	(P _{max})	4709.20 kWp							
Total Modules	N°	8190							
Notes - Smart string line									
VALUES VERIFICATION FOR ONE GPS TO INVERTER				SMV: Sunny Central 4000-EV					
Estimation of the minimum voltage V _{mp}	For a temperature of the modules that are 25°C	1296.14V	MIN MPPT VOLTAGE	840 V					
Estimation of the maximum current I _{mp}	For a temperature of the modules that are 25°C	131.27 A	MAX MPPT VOLTAGE	1325 Vdc					
Estimation of the maximum input voltage V _{in}	For a temperature of the modules that are 25°C	1161.42V	MAXIMUM VOLTAGE	1500 Vdc					
Estimation of the maximum current I _{in}	For a temperature of the modules that are -10°C	126.64 A							
Estimation of the maximum voltage V _{in}	For a temperature of the modules that are -10°C	1242.81V							
CALCULATION OF THE VOLTAGE DROP ON THE CABLES STC									
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	7	A-01	251.00	70	0.84	1.10	2		
SC-02	7	A-02	240.00	50	0.65	1.10	2		
SC-03	8	A-03	261.00	95	0.97	1.10	3		
SC-04	8	A-04	248.00	70	0.69	1.20	4		
SC-05	8	A-05	249.00	95	0.86	1.10	3		
SC-06	9	A-06	218.00	95	0.83	1.00	6		
SC-07	9	A-07	171.00	70	0.58	1.10	3		
SC-08	9	A-08	140.00	70	0.72	0.90	6		
SC-09	9	A-09	188.00	70	0.67	1.20	3		
SC-10	9	A-10	158.00	70	0.62	1.00	10		
SC-11	9	A-11	133.00	50	0.60	1.00	11		
SC-12	9	A-12	79.00	35	0.62	1.00	12		
SC-13	9	A-13	128.00	50	0.63	1.10	13		
SC-14	9	A-14	68.00	50	0.71	0.90	14		
SC-15	9	A-15	49.00	25	0.70	0.90	15		
SC-16	9	A-16	55.00	25	0.80	1.00	16		
SC-17	9	A-17	103.00	50	0.75	0.90	17		
SC-18	9	A-18	134.00	50	0.67	1.20	18		
SC-19	9	A-19	80.00	35	0.68	1.10	19		
SC-20	9	A-20	118.00	50	0.64	1.00	20		
SC-21	9	A-21	160.00	70	0.62	1.00	21		
SC-22	9	A-22	195.00	95	0.74	0.90	22		
SC-23	9	A-23	147.00	70	0.76	1.00	23		
SC-24	9	A-24	178.00	70	0.82	1.10	24		
SC-25	9	A-25	220.00	95	0.86	1.10	25		
SC-26	9	A-26	207.00	95	0.98	1.20	26		
SC-27	9	A-27	208.00	95	0.79	1.00	24		
SC-28	9	A-28	239.00	95	0.81	1.10	26		
SC-29	9	A-29	288.00	120	0.67	1.10	28		
SC-30	9	A-30	319.00	120	0.95	1.20	27		
SC-31	9	A-31	270.00	120	0.81	1.00	28		
SC-32	9	A-32	291.00	95	0.95	1.20	29		
SC-33	9	A-33	349.00	150	0.84	1.00	30		
SC-34	7	A-34	380.00	120	0.89	1.10	31		
SC-35	8	A-35	370.00	150	0.81	1.00	32		
SC-36	7	A-36	331.00	95	0.68	1.20	33		

MEAN VALUE	1.873 %
MINIMUM VALUE	0.900 %
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 3- 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 12336131003
ingegneria@enitgroup.eu

Spazio riservato agli Enti:

File: PE17060_ElaborazioniGrafico_4.2.9_2.22		Cod. PE17060	Scala: 1:800	
Rev.	Data	Descrizione	Redatto	Approvato
00	06/03/2022	V.I.A. Messurale	A. Tartaglia	S.M. Caputo
4.2.9_2.22				
CERIGNOLA SOLAR 2 S.R.L. Via Antonio Locatelli n.1 37122 Verona cerignolasolar2@pec.it				