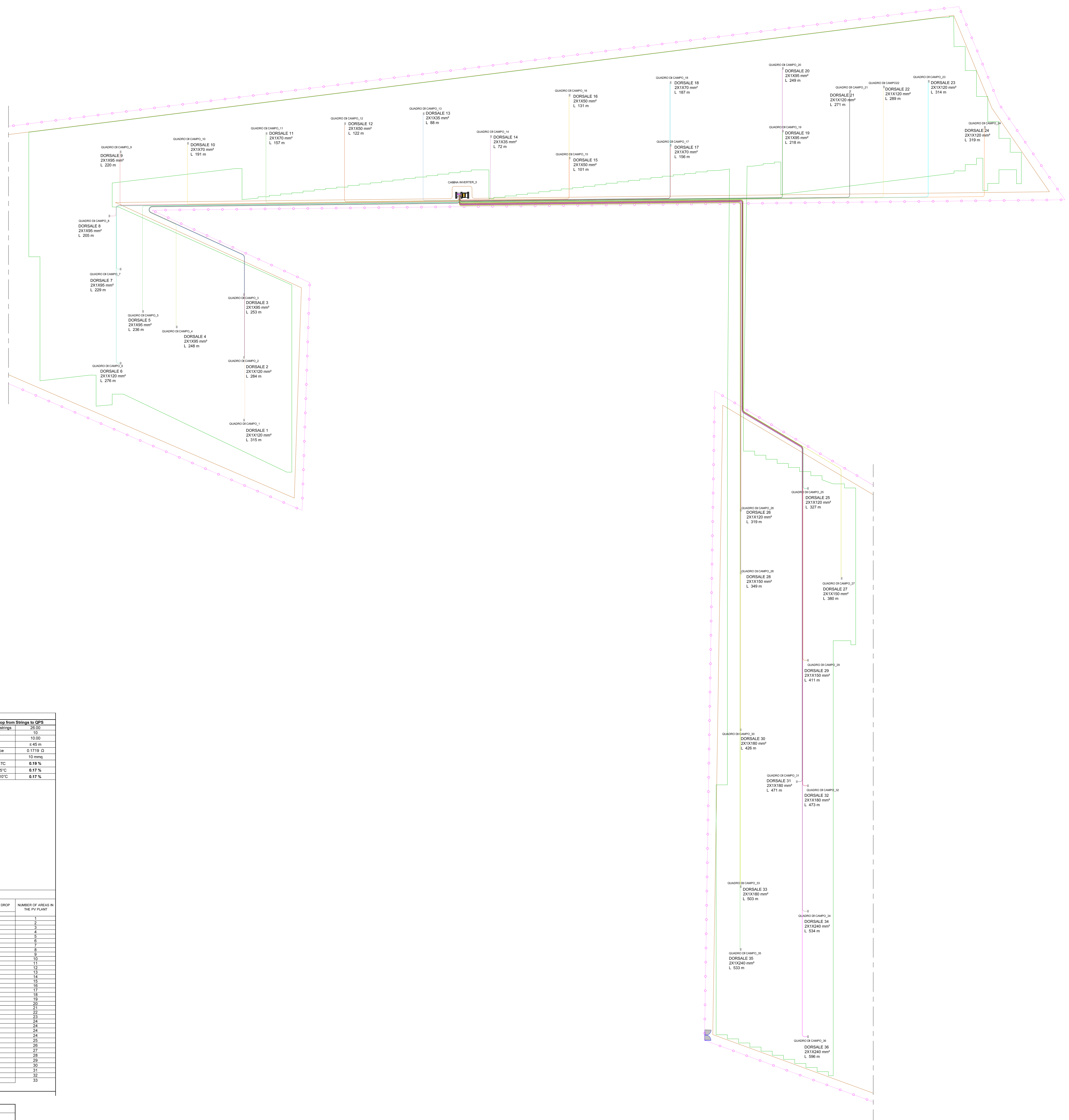


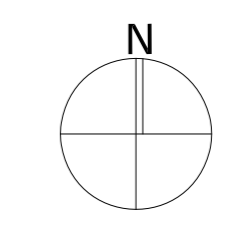
1. LEGENDA

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MODULE DATA SHEET		GP - Inverter Electrical Characteristics		Voltage drop from strings to GPS			
Module Type	SECURUS HOMOBI 6.0	MPPT	115.4V	Modules per string	20.00		
Peak Power (Pm)	(Wp) 575.00	Vc,OUT	1383.20 V	Lines per GP	10.00		
Open Circuit Voltage (Voc)	55.20	Vc,MAX	128.80 A	Strings per GP	10.00		
Optimum Operating Voltage (Vmp)	44.67			Medium Length	≤ 45 m		
Current (Imp)	(A) 12.88			Medium Resistance	0.17 Ω		
Temperature Coefficients Voltage (β)	-0.280 V/W°C			Section Loss	10.00%		
Temperature Coefficients Current (α)	0.048 A/W°C			Voltage Drop at STC	0.18 %		
				Voltage Drop at 65°C	0.17 %		
				Voltage Drop at 15°C	0.17 %		
CHARACTERISTICS FOR ONE STRING							
Modules for each 1	N°	20.00					
Voltage	Vmpst	1151.42					
Current	A	12.98					
Peak Power (Pm)	KWP	14.95					
FINAL DATA							
String to the	N°	327					
Power of all Strings	(Pmax)	4888.66 KWP					
Total Modules	N°	6502					
rpt - smart string for		SMA - Sunny Central 25000V					
VALUES VERIFICATION FOR ONE GPS TO INVERTER		SMA - Sunny Central 25000V					
Estimation of the minimum voltage Vmpst For a temperature of the modules that are 65°C	1201.50V	MIN MPPT VOLTAGE	640 V				
Estimation of the maximum current Imp For a temperature of the modules that are 65°C	131.27 A						
Estimation of the maximum power Pmp For a temperature of the modules that are 65°C	1161.42W	MAX MPPT VOLTAGE	1325 Vdc				
Estimation of the minimum current Imp For a temperature of the modules that are 15°C	126.64 A						
Estimation of the maximum voltage Voc For a temperature of the modules that are 15°C	1247.60V	MAXIMUM VOLTAGE	1500 Vdc				
CALCULATION OF THE VOLTAGE DROP ON THE CABLES STC							
CODE	N° OF STRINGS TO GPS	AREA	MAXIMUM LENGTH	LINE SECTION	VOLTAGE DROP FROM GP TO INVERTER	TOTAL VOLTAGE DROP	NUMBER OF AREA IN THE PV PLANT
SC_01	9	A.01	315.00	100	0.83	1.10	1
SC_02	9	A.02	255.00	100	0.84	1.10	2
SC_03	9	A.03	255.00	95	0.85	1.10	3
SC_04	9	A.04	240.00	95	0.86	1.10	4
SC_05	9	A.05	210.00	100	0.82	1.00	5
SC_06	9	A.06	210.00	95	0.82	1.00	6
SC_07	9	A.07	205.00	95	0.77	1.00	7
SC_08	9	A.08	205.00	95	0.82	1.00	8
SC_09	9	A.09	195.00	95	0.82	1.00	9
SC_10	9	A.10	180.00	70	0.87	1.10	10
SC_11	9	A.11	175.00	70	0.86	1.10	11
SC_12	10	A.12	165.00	95	0.86	1.20	12
SC_13	9	A.13	155.00	70	0.84	1.10	13
SC_14	9	A.14	150.00	90	0.72	0.96	14
SC_15	9	A.15	145.00	90	0.72	0.96	15
SC_16	9	A.16	135.00	90	0.63	0.84	16
SC_17	9	A.17	135.00	70	0.79	1.00	17
SC_18	9	A.18	135.00	90	0.65	0.84	18
SC_19	9	A.19	120.00	95	0.81	1.00	19
SC_20	9	A.20	115.00	95	0.89	1.00	20
SC_21	9	A.21	110.00	100	0.86	1.10	21
SC_22	9	A.22	105.00	100	0.86	1.10	22
SC_23	9	A.23	115.00	100	0.87	1.10	23
SC_24	9	A.24	110.00	100	0.94	1.10	24
SC_25	9	A.25	105.00	100	0.97	1.10	25
SC_26	9	A.26	100.00	100	0.96	1.10	26
SC_27	9	A.27	95.00	100	0.96	1.10	27
SC_28	9	A.28	90.00	100	0.96	1.10	28
SC_29	9	A.29	85.00	100	0.96	1.10	29
SC_30	9	A.30	80.00	100	0.97	1.00	30
SC_31	9	A.31	75.00	100	0.93	1.10	31
SC_32	9	A.32	70.00	100	0.94	1.10	32
SC_33	9	A.33	65.00	100	0.99	1.20	33
SC_34	9	A.34	60.00	100	0.99	1.20	34
SC_35	9	A.35	55.00	100	0.79	1.00	35
SC_36	9	A.36	50.00	100	0.88	1.10	36

MEAN VALUE	1.933 %
MINIMUM VALUE	0.990 %
MAXIMUM VALUE	1.290 %



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 5
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
ingegneris@entgroup.eu

Spazio riservato agli Enti:

File: PE17Q0_ElaboratoGralco_4.1.9_4.16	Cod. PE17Q0	Scala: 1:800		
Rev.	Data	Descrizione	Redatto	Approvato
00	08/03/2022	V.I.A. Ministeriale	A. Tartaglia	S.M. Caputo
4.2.9_4.36				
CERIGNOLA SOLAR 2 S.R.L. Via Antonio Locatelli n.1 37122 Verona cerignolasolar2@pec.it				