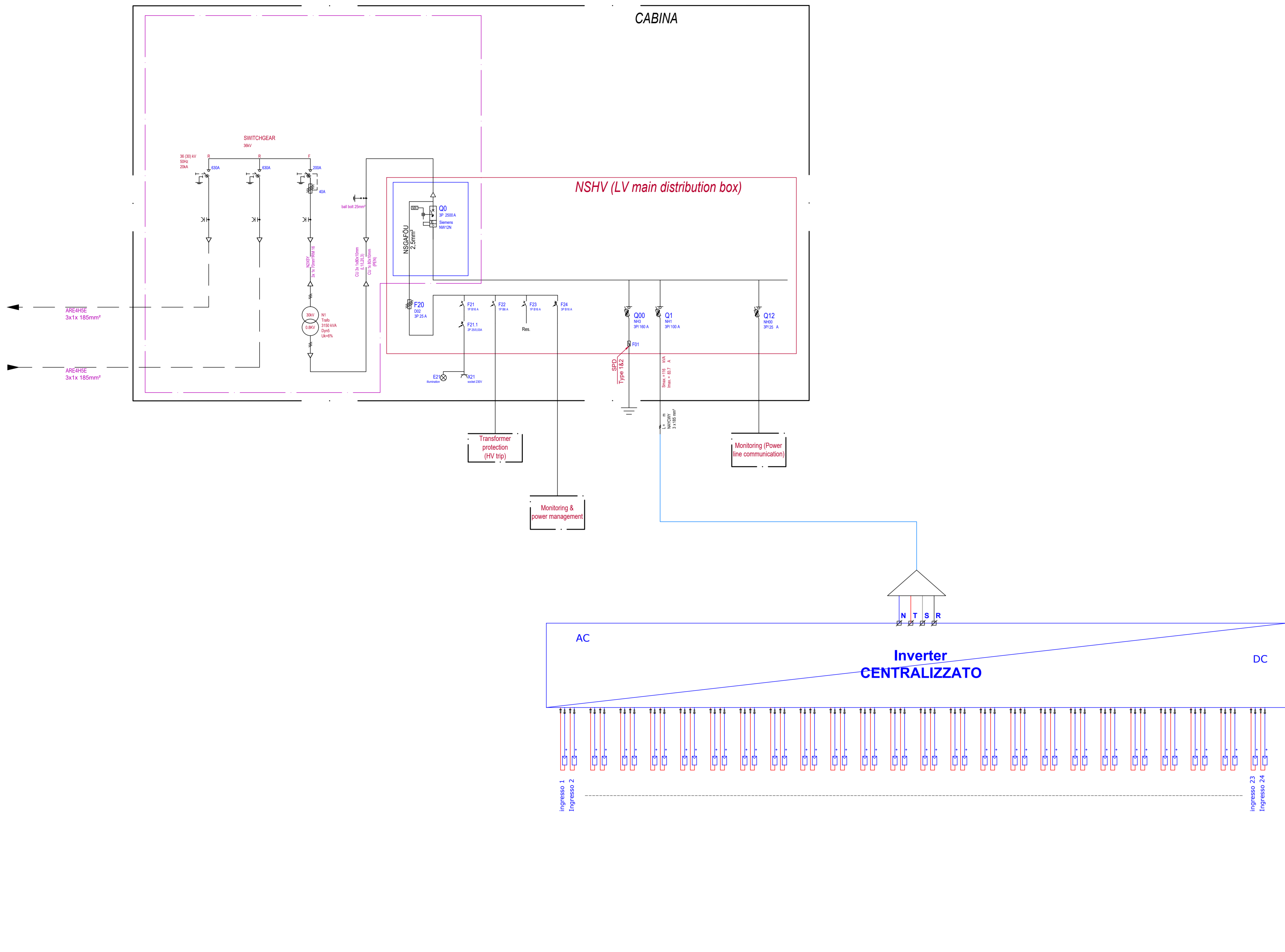


SCHEMA TIPICO DI CONNESSIONE LATO AC



Inverter DC/AC 4000kVA - 4200kVA

SYSTEM DIAGRAM

TEMPERATURE BEHAVIOR (at 1000 m)

www.SMA-Solar.com SMA Solar Technology

Technical Data	Sunny Central 2660 UP	Sunny Central 3060 UP
DC side		
MPP voltage range V _{oc} (at 25 °C/at 50 °C)	880 to 1325 V / 1100 V	1003 to 1325 V / 1100 V
Min. DC voltage V _{oc} / Start voltage V _{oc} min.	849 V / 1030 V	976 V / 1153 V
Max. DC voltage V _{oc} max.	1500 V	1500 V
Max. DC current I _{sc} max.	4750 A	4750 A
Max. short-circuit current I _{sc} max.	6400 A	6400 A
Number of DC inputs	Busbar with 26 connections per terminal, 24 double pole fused (32 single pole fused)	Busbar with 26 connections per terminal, 24 double pole fused (32 single pole fused)
Number of DC inputs with optional DC battery coupling	18 double pole fused (24 single pole fused) for PV and 6 double pole fused for batteries	18 double pole fused (24 single pole fused) for PV and 6 double pole fused for batteries
Max. number of DC cables per DC input (for each polarity)	2 x 800 kcmil, 2 x 400 mm ²	2 x 800 kcmil, 2 x 400 mm ²
Integrated zone monitoring	0	0
Available PV fuse sizes (per input)	200 A, 250 A, 315 A, 350 A, 400 A, 450 A, 500 A	200 A, 250 A, 315 A, 350 A, 400 A, 450 A, 500 A
AC side		
Nominal AC power at cos φ = 1 (at 25 °C/at 50 °C)	2660 kW / 2260 kW	3060 kW / 2600 kW
Nominal AC power at cos φ = 0.8 (at 25 °C/at 50 °C)	2128 kW / 1808 kW	2448 kW / 2080 kW
Nominal AC current I _{sc} max. (at 25 °C/at 50 °C)	2560 A / 2176 A	2560 A / 2176 A
Max. total harmonic distortion	< 3% at nominal power	< 3% at nominal power
Nominal AC voltage / nominal AC voltage range	600 V / 480 V to 720 V	690 V / 552 V to 750 V
AC power frequency / range	50 Hz / 47 Hz to 53 Hz	50 Hz / 47 Hz to 53 Hz
Min. short-circuit ratio at the AC terminals	1 / 0.8 overexcited to 0.8 underexcited	1 / 0.8 overexcited to 0.8 underexcited
Power factor at rated power / displacement power factor adjustable	0	0
Efficiency	0	0
Max. efficiency / European efficiency / CEE efficiency	98.7%* / 98.6%* / 98.5%*	98.7%* / 98.6%* / 98.5%*
Protective Devices		
Input-side disconnection point	DC load break switch	DC load break switch
Output-side disconnection point	AC circuit breaker	AC circuit breaker
DC overvoltage protection	Surge arrester, type I & II	Surge arrester, type I & II
AC overvoltage protection (optional)	Surge arrester, class I & II	Surge arrester, class I & II
Lightning protection (according to IEC 62305-1)	Lightning Protection Level III	Lightning Protection Level III
Ground fault monitoring / remote ground-fault monitoring	0 / 0	0 / 0
Insulation monitoring	0	0
Degree of protection: electronics / air duct / connection area (as per IEC 60529)	IP54 / IP34 / IP34	IP54 / IP34 / IP34
General Data		
Dimensions (W / H / D)	2815 / 2318 / 1588 mm (110.8 / 91.3 / 62.5 inch)	2815 / 2318 / 1588 mm (110.8 / 91.3 / 62.5 inch)
Weight	< 4000 kg / < 8818.5 lb	< 4000 kg / < 8818.5 lb
Self-consumption (max. / partial load / average)	< 8100 W / < 1800 W / < 2000 W	< 8100 W / < 1800 W / < 2000 W
Self-consumption (standby)	< 370 W	< 370 W
Internal auxiliary power supply	0 Integrated 8.4 kVA transformer	0 Integrated 8.4 kVA transformer
Operating temperature range	-25 °C to 60 °C / -13 °F to 140 °F	-25 °C to 60 °C / -13 °F to 140 °F
Noise emission	67.5 dB(A)*	67.5 dB(A)*
Temperature range (standby)	-40 °C to 60 °C / -40 °F to 140 °F	-40 °C to 60 °C / -40 °F to 140 °F
Temperature range (storage)	-40 °C to 70 °C / -40 °F to 158 °F	-40 °C to 70 °C / -40 °F to 158 °F
Max. permissible value for relative humidity (condensing / non-condensing)	95% to 100% (2 month/year) / 0% to 95%	95% to 100% (2 month/year) / 0% to 95%
Maximum operating altitude above MSL (1000 m / 3000 mm)	0 / 0	0 / 0
Fresh-air consumption	6500 m ³ /h	6500 m ³ /h
DC connection	Terminal lug on each input (without fuse)	Terminal lug on each input (without fuse)
AC connection	With busbar system (three busbars, one per line conductor)	With busbar system (three busbars, one per line conductor)
Communication	Ethernet, Modbus Master, Modbus Slave	Ethernet, Modbus Master, Modbus Slave
Enclosure / roof color	RAL 9016 / RAL 7004	RAL 9016 / RAL 7004
Supply for external loads	0 (2.5 kVA)	0 (2.5 kVA)
Standards and directives complied with	CE, IEC / EN 62109-1, IEC / EN 62109-2, AR-N 4110, IEEI1547, UL 840 Cat. IV, Arrêté du 23/04/08	CE, IEC / EN 62109-1, IEC / EN 62109-2, AR-N 4110, IEEI1547, UL 840 Cat. IV, Arrêté du 23/04/08
EMC standards	IEC 55011, FCC Part 15 Class A	IEC 55011, FCC Part 15 Class A
Quality standards and directives complied with	VDI/VDE 2862 page 2, DIN EN ISO 9001	VDI/VDE 2862 page 2, DIN EN ISO 9001
Standard features	0 Optional — not available * preliminary	0
Type designation	SC2660 UP	SC3060 UP

Caratteristiche apparecchiature AC bT-MT Trasformatore bT/MT 30kV - 4000kVA

eco

Nome / Standard: IEC CEI DIN EN 60076 EN 50588

Classe isolamento (aumento temp.) / Insulating Class (temp. rise): F (100 K)

Classe isolamento MV (Classe UK 4%) / Insulation Class MV (Class UK 4%): 12 kV FI 28 kV BIL 75 kV

Classe isolamento MV (Classe UK 6%) / Insulation Class MV (Class UK 6%): 12 kV FI 28 kV BIL 75 kV

Classe isolamento IV / Insulation Class IV: 1,1 kV FI 3 kV

Frequenza / Frequency: 50 Hz

Regolazione MV / Tappings MV: ± 2 x 2,5%

Tolleranza / Tolerance: Tolleranza zero sulle perdite / No tolerance on the losses

Power kVA	U _k %	P _n %	P _n * %	I _n %	L _w dB(A)	L _p dB(A)	A mm	B mm	C mm	D mm	Wheel mm	Weight Kg
50	6	230	1870	1,4	54	41	1260	670	1525	520	125	850
100	6	320	2250	1	56	43	1290	670	1545	520	125	1020
160	6	460	3190	0,88	57	44	1425	670	1545	520	125	1300
200	6	520	3630	0,85	58	44	1500	820	1600	670	125	1490
250	6	590	4180	0,8	59	45	1500	670	1700	520	125	1670
315	6	710	4980	0,79	60	46	1590	820	1750	670	125	1910
400	6	860	6050	0,78	61	47	1590	820	1850	670	125	2010
500	6	1030	7050	0,76	62	48	1620	820	1880	670	125	2200
630	6	1260	8360	0,75	63	49	1680	820	1980	670	125	2470
800	6	1490	8800	0,71	64	49	1710	1050	2150	820	125	2960
1000	6	1780	9900	0,7	65	50	1830	1050	2300	820	125	3590
1250	6	2070	12100	0,69	67	52	1860	1000	2360	820	150	3890
1600	6	2530	14300	0,67	68	53	2010	1050	2500	820	150	4860
2000	6	2990	17600	0,65	72	56	2100	1300	2595	1070	200	5860
2500	6	3560	20900	0,62	78	61	2250	1300	2625	1070	200	7160
3150	6	4370	24200	0,6	76	60	2340	1300	2805	1070	200	8610
4000	7	6300	28900	0,61	84	68	2520	1300	2835	1070	200	9650
5000	8	6900	35000	0,61	86	70	2610	1300	2835	1070	200	10770

* Dati riferiti a tensione nominale / Data referred to 120°C at rated voltage.

REGIONE PUGLIA

PROVINCIA DI FOGGIA

PACIFICO PACIFICO ACQUAMARINA 2 S.r.l.

plan PLAN A ENERGY S.R.L.

STUDIO INGEGNERIA ELETTRICA MEZZA dott. ing. Antonio Mezza

Università di Foggia

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Dott.ssa Anastasia Agnoli

Dott. Biol. Elisa Gatto

Dott. Nazario Di Lella

Dott. Fabio Mastrogiuseppe

Arch. Gaetano Fornaroli

NOSTOI s.r.l.

Dott.ssa Maria Grazia Liseno

Ing. Antonio Falcone

Dott. Agr. Barnaba Marinucci

Dott. Agr. Alfonso Magro

Ing. Tommaso Monaco

Geom. Matteo Occhiochiuso

Progetto definitivo per la realizzazione di un impianto Agri-Fotovoltaico denominato "TOVAGLIA" da realizzarsi in cave dismesse o da dismettere e recuperare, e site in località "Masseria Tovaglia" nel territorio comunale di Serracapriola (FG) per una potenza complessiva di 26,557MWp nonché delle opere connesse ed infrastrutture indispensabili alla costruzione e all'esercizio dell'impianto

AUTORITA' PROCEDENTE V.L.A. Ministero dell'Ambiente e della Sicurezza Energetica

AUTORITA' PROCEDENTE A.U.: REGIONE PUGLIA

Nome Elaborazione: 90WX1A8_ElaboratoGrafico_09.pdf

Descrizione lavoro: Grafo a blocchi della distribuzione generale lato AC

Opere	Data	Descrizione	Elaborazione	Verifica	Approvazione
00	28/10/2022	Progetto definitivo	Ing. M. Di Stefano	Ing. A. Mezza	Pacifico Acquamarina 2 S.r.l.

Scala: /

Formato: A0

Codice Pratica: **96WX1A8**