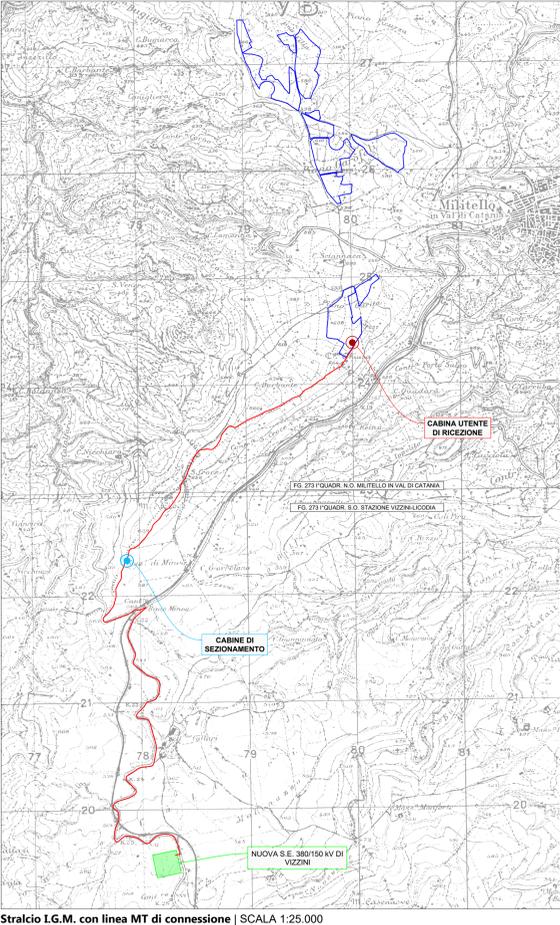
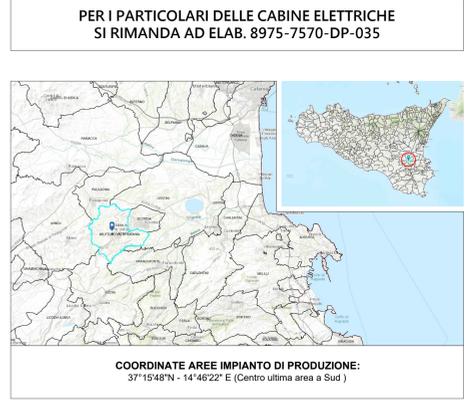
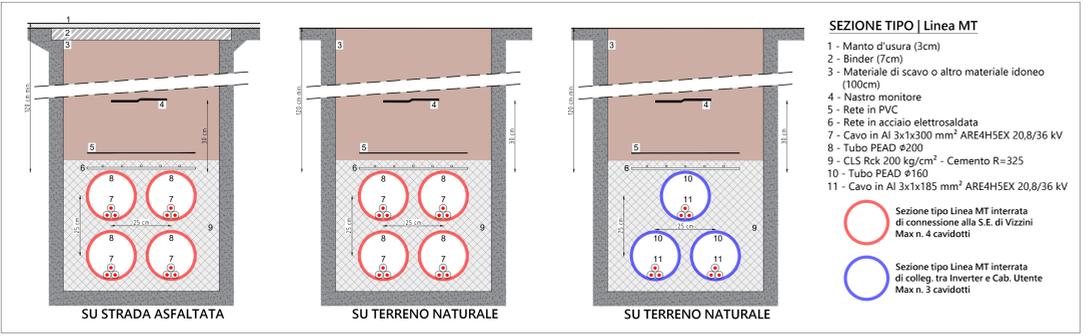


LEGENDA

- Fascia Arborea perimetrale (L. min. 10m)
- Viabilità interna in progetto in terra battuta (L. 4m)
- Linea AT aerea esistente e fascia di rispetto (L. 30m)
- Linea MT aerea esistente e fascia di rispetto (L. 13m)
- Fabbricato esistente e relativa fascia di rispetto (L. 10m)
- Vasca di raccolta acque esistente e fascia di rispetto (L.10m)
- Recinzione metallica perimetrale
- Linea MT interrata di colleg. tra Cab. Inverter e Cab. Utente di Ricezione
- Linea MT interrata di connessione tra Cab. Utente di Ricezione e Nuova S.E. di Vizzini
- Cabina Utente di Ricezione
- Inverter SMA MV Power Station 4400-S2
- Cabina Servizi Ausiliari



Scheda tecnica Inverter SMA MV POWER STATION 4400-S2

Technical Data	MVPS 2660-S2-US	MV Power Station 4400-S2
Input [DC]	1 x SC 2660 UPUS / 1 x SCS 2300 URXT4US	1 x SC 4400 UP
Max. input voltage	1500 V	1500 V
Number of DC inputs	dependent on the selected inverter	1
Integrated zone monitoring	o	o
Available DC fuse sizes (per input)	200 A, 250 A, 315 A, 350 A, 400 A, 450 A, 500 A	o
Output [AC] on the medium-voltage side	o	o
Rated power with SCS URXT4US (at 25°C to +35°C / 40°C optional 50°C) ¹⁾	2667 kVA / 2400 kVA	4400 kVA / 3960 kVA
Charging power with SCS URXT4US (at 25°C to +25°C / 40°C optional 50°C) ¹⁾	2390 kVA / 2000 kVA	o
Discharging power with SCS URXT4US (at 25°C to +25°C / 40°C optional 50°C) ¹⁾	2665 kVA / 2270 kVA	o
Typical nominal AC voltages	12 kV to 34.5 kV	22 kV to 33 kV
AC power frequency	50 Hz / 60 Hz	o
Transformer vector group Dy11 / YN411 / YNY0	o	o
Transformer cooling methods	KNAN ²⁾	o
Transformer efficiency: Standard / Eco Design 1 / Eco Design 2	o / o / o	o / o / o
Max. total harmonic distortion	o	< 3%
Reactive power feeds (up to 60% of nominal power)	o	o
Power factor at rated power / displacement power factor adjustable	1 / 0.8 overcorrected to 0.8 undercorrected	o
Inverter efficiency	o	98.8% / 98.5% / 98.5%
Max. efficiency ³⁾ / European efficiency ³⁾ / CEC weighted efficiency ⁴⁾	o	98.8% / 98.7% / 98.3%
Protective devices	o	o
Inputs side disconnection point	DC load break switch	o
Outputs side disconnection point	Medium-voltage vacuum circuit breaker	o
DC overvoltage protection	Surge arrester type 1	o
Galvanic isolation	o	o
Internal arc classification medium-voltage control room (according to IEC 62271-202)	o	IAC A 20 kA 1 s
General Data	o	o
Dimensions equal to 20-foot HC shipping container [W / H / D]	6058 mm / 2896 mm / 2438 mm	o
Weight	< 18 t	o
Self-consumption [max. / partial load / average] ¹⁾	< 8.1 kW / < 1.8 kW / < 2.0 kW	o
Self-consumption [standby] ¹⁾	< 370 W	o
Degree of protection according to IEC 60529	Control rooms IP23D; inverter electronics IP54	o
Environment: standard / harsh	o	o
Degree of protection according to IEC 60721-3-4 (AC1, 4S2, 4C2, 4S4)	o	o
Maximum permissible value for relative humidity	95% (for 2 months/year)	o
Max. operating altitude above mean sea level 1000 m / 2000 m	o	o
Peak air consumption of inverter	6500 m ³ /h	o
Features	o	o
DC terminal	Terminal lug	o
AC connection	Outer-cone angle plug	o
Tap-changer for MV transformer: without / with	o	o
Shield winding for MV transformer: without / with	o	o
Station enclosure color	RAL 7004	o
Transformer for external loads: without / 10 / 20 / 30 / 40 / 50 / 60 kVA	o	o
Medium-voltage type: without / 3 feeders	o	o
2 cable feeders with load break switch, 1 transformer feeder with circuit breaker, internal arc classification IAC A FL 20 kA, 1 s according to IEC 62271-200	o	o
Short-circuit rating medium-voltage switchgear (25 kA 1s)	o	o
Integrated oil containment: without / with	o	o
Industry standards (for other standards see the inverter datasheet)	IEC 60076, IEC 62271-200, IEC 62271-202, EN50588-1 IEE C37.100.1, IEE C57.12, C37.20.9, UL 1741 listed, CSC Certificate, UL 347	o
Standard features	o	o
Optional features	o	o
Not available	o	o
Type designation	MVPS 2660-S2-US	MVPS 4400-S2

REGIONE SICILIA
 Provincia di Catania
 COMUNI DI MILITELLO IN VAL DI CATANIA, VIZZINI E MINEO

PARCO FOTOVOLTAICO DI MILITELLO

PROGETTO DEFINITIVO

COMMITTENTE
 ERG Solar Holding

SOCIETA' DI PROGETTAZIONE
 SERING ITALIA

INGEGNERI
 Dott. Ing. ANTONIO ROBERTO PSALIA
 Ing. ANTONIO PSALIA
 Ing. ROBERTO CINTOLO

OGGETTO DELL'ELABORAZIONE
 COROGRAFIA GENERALE CON PERCORSO DEI CAVI E CABINE

REV.	DATA	ATTIVITA'	REDATTO	VERIFICATO	APPROVATO

CODICE PROGETTISTA: DATA: 14/02/2023, SCALA: --, FORMATO/FOGLIO: A0 1, DOCUMENTO: 8975-7570-DP-039