

Comune di Maglie

Provincia di Lecce

P.d.C - Fusione lotti e ampliamento dell' insediamento produttivo ECOMET S.r.l.

(D.P.R. n. 380 del 2001 art.10)

Ubicazione: Zona Industriale Maglie - Melpignano - Agglomerato industriale ASI

Riferimenti catastali: Nuova acquisizione - Foglio 1, p.lle 353, 542, 544, 546, 559, 556,

31, 624, 626, 622 rel. stradale.

Insedimento esistente - Foglio 1, p.lla 69.

Committente: ECOMET S.r.l.

ELABORATO

IMP5

PROGETTO IMPIANTO FV

Impianto fotovoltaico su tetto

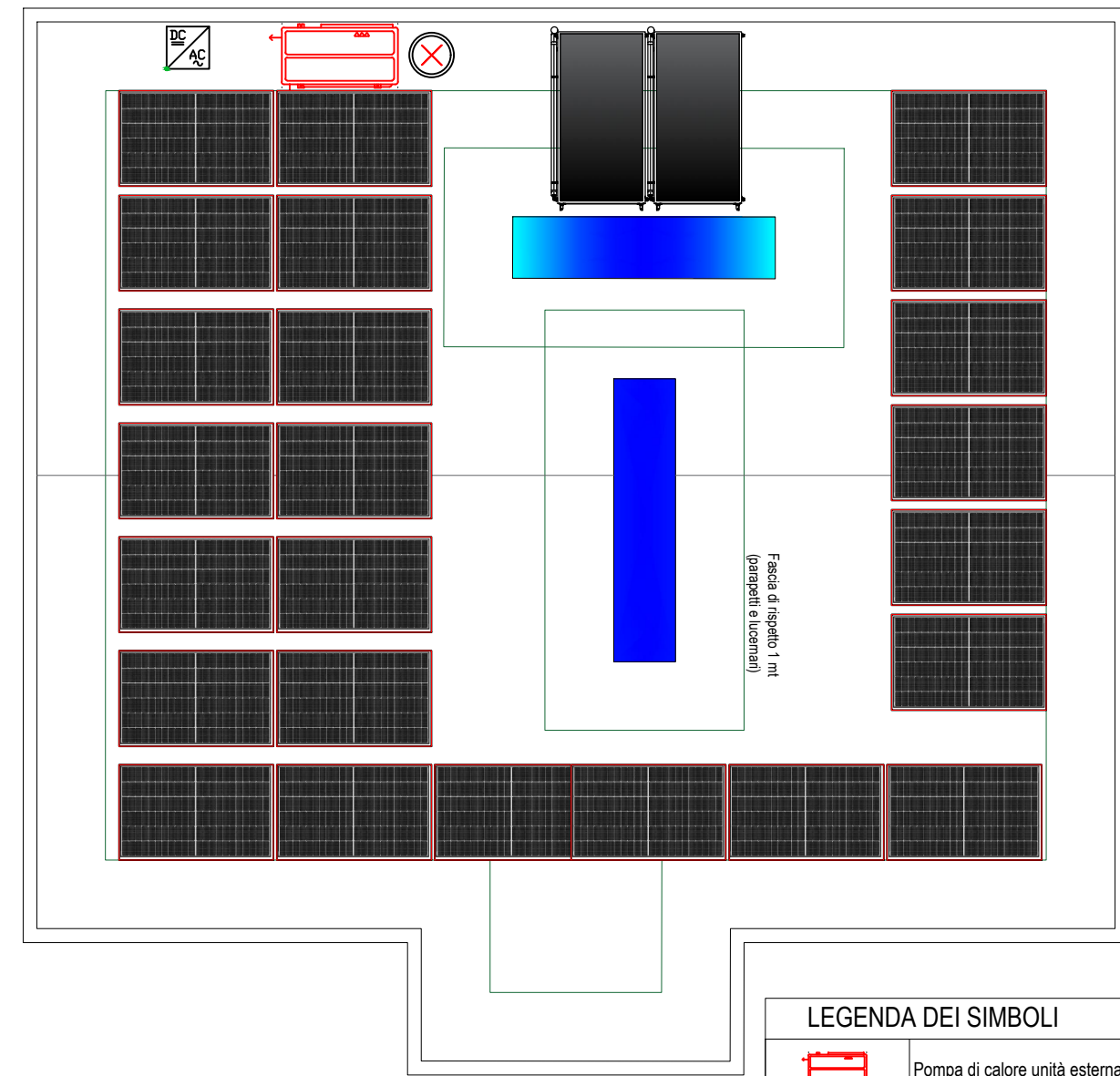
Data: Aprile 2026

Progettista impianti

Ing. Raffaele NICOLI'



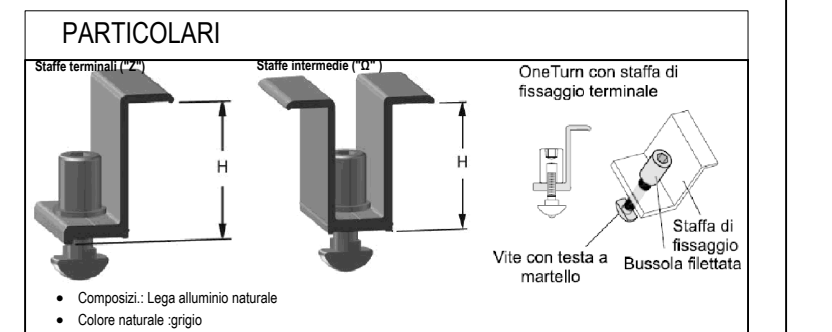
SCALA 1:100



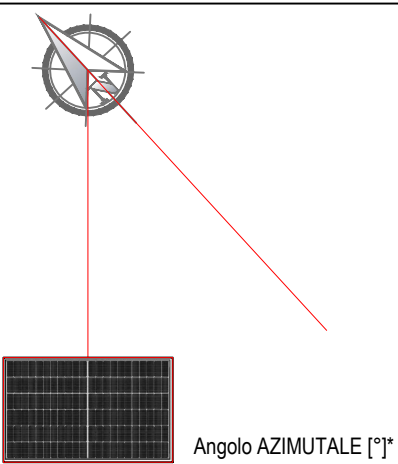
Pianta delle coperture - scala 1:100

SCHEDA TECNICA IMPIANTO FV	
N° Moduli FV	24
Potenza unitaria Moduli FV [Wp]	500
Potenza totale installata [kWp]	12,00
Angolo di TILT/ZENITALE [°]	10°
Angolo AZIMUTALE [°]	43°
Produttività specifica annuale attesa [kWh/kWp x anno]	1.376
Produzione annuale attesa per servizi condominiali [kWh/anno]	16.415

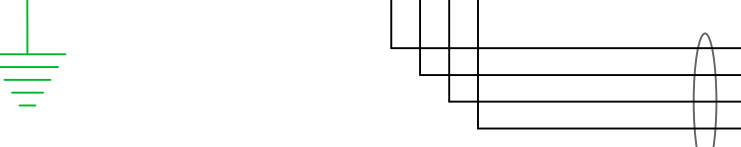
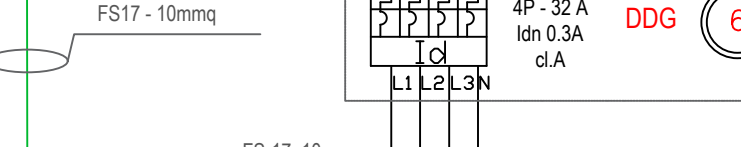
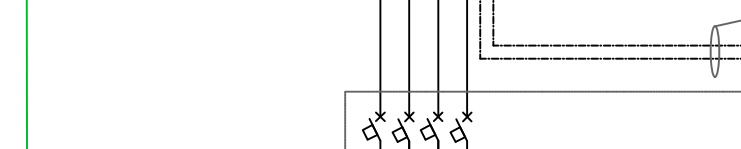
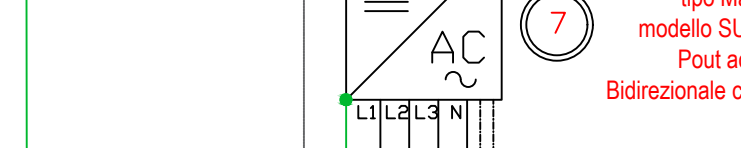
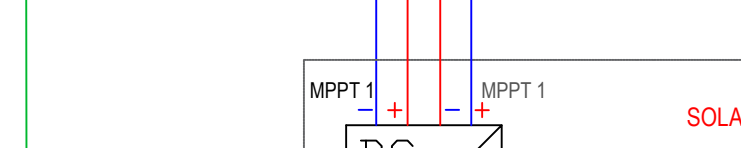
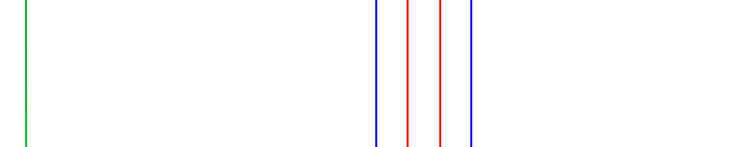
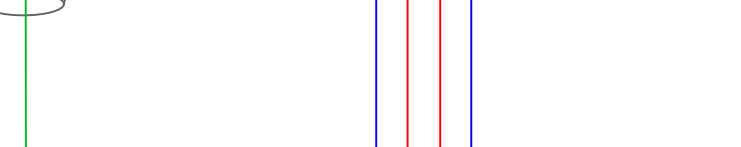
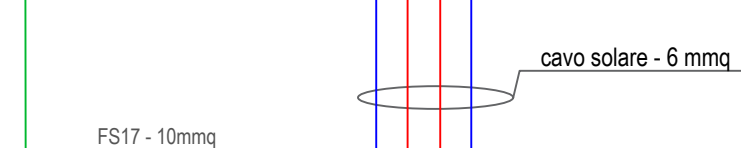
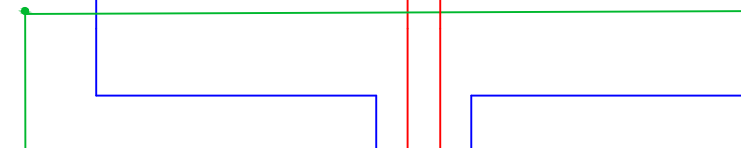
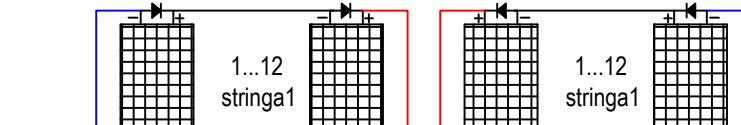
* Azimuth Angle from -180 to 180. East = 90, South 0



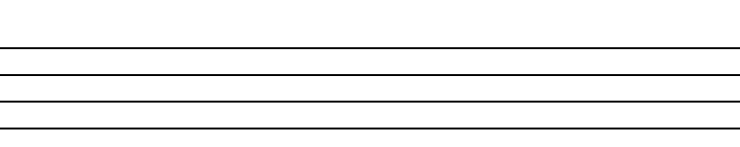
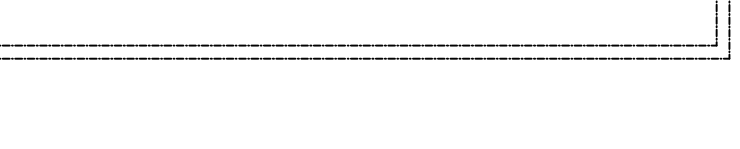
LEGENDA DEI SIMBOLI	
	Pompa di calore unità esterna
	Modulo FV
	Collettore Solare termico
	Lucernario
	Inverter
	Fascia di rispetto 1 mt (parapeti e lucernari)



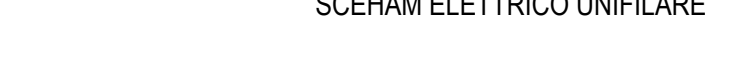
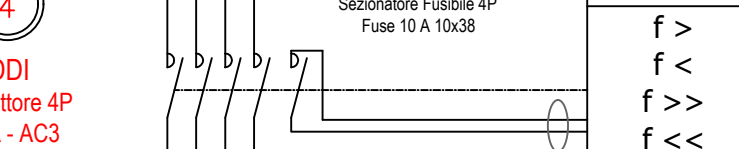
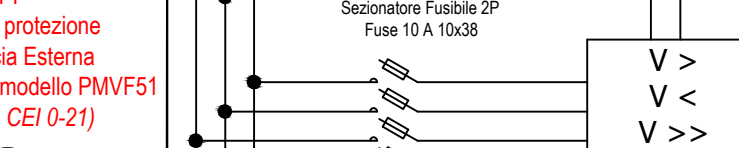
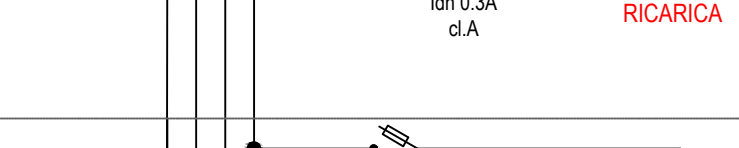
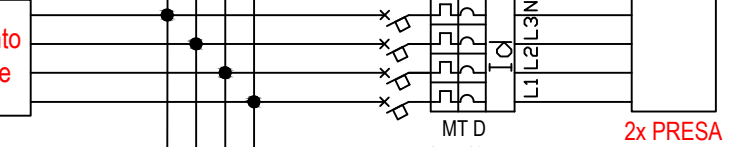
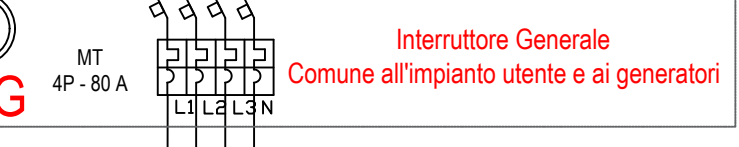
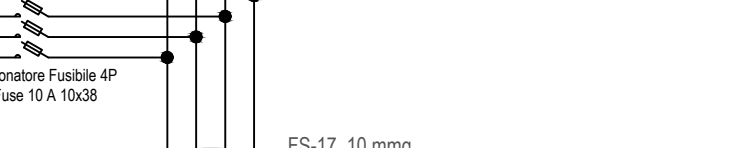
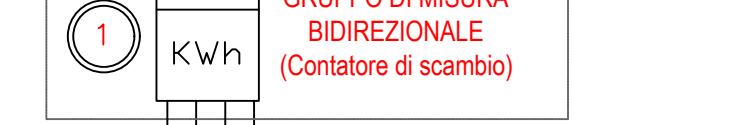
Generatore FV
n° 24 moduli da 500 Wp
in silicio monocristallino
Ptot =12,00 kWp



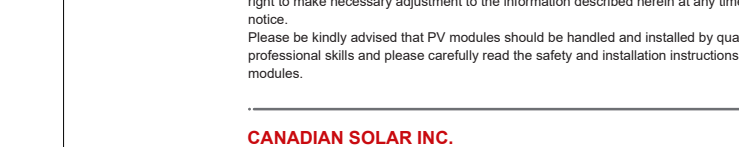
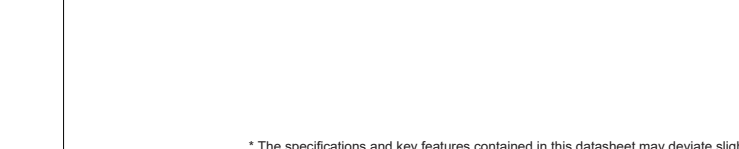
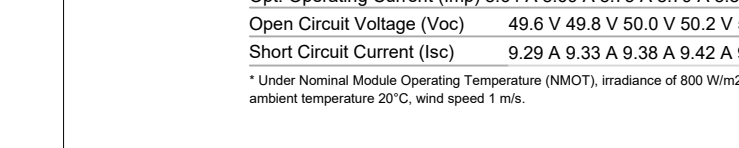
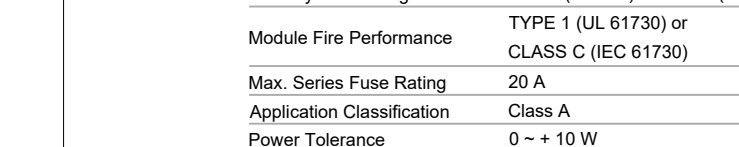
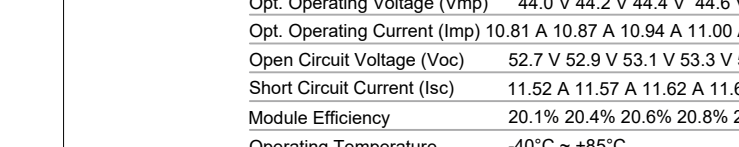
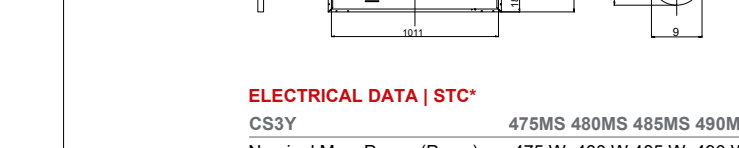
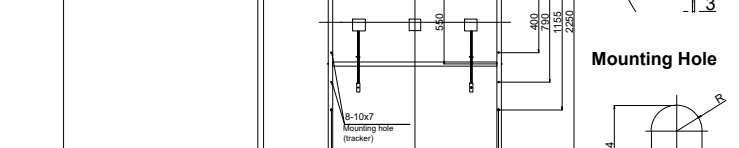
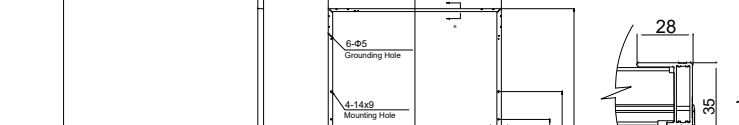
Generatore FV
n° 24 moduli da 500 Wp
in silicio monocristallino
Ptot =12,00 kWp



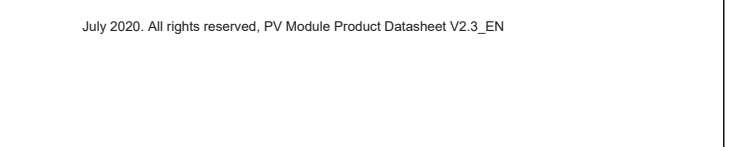
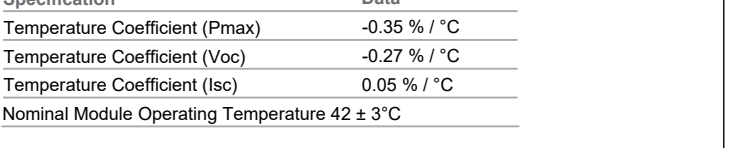
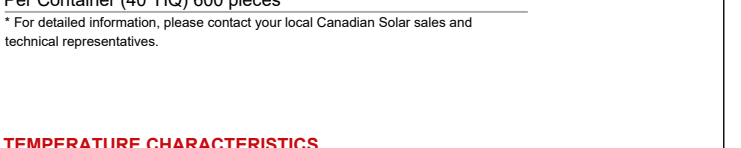
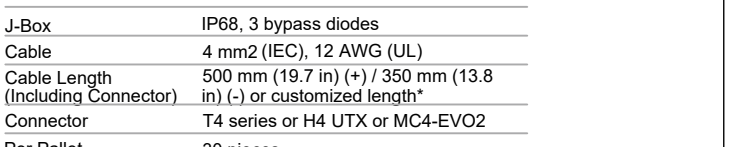
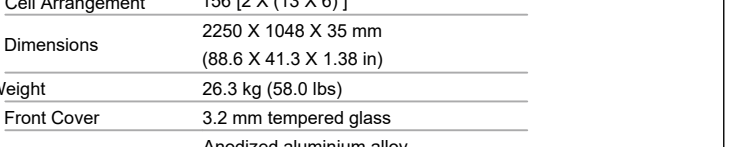
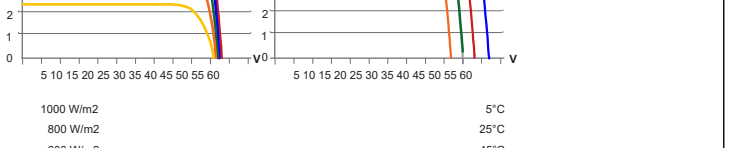
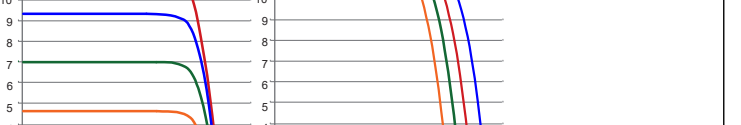
Generatore FV
n° 24 moduli da 500 Wp
in silicio monocristallino
Ptot =12,00 kWp



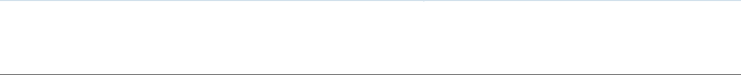
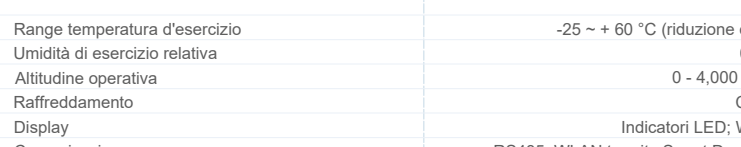
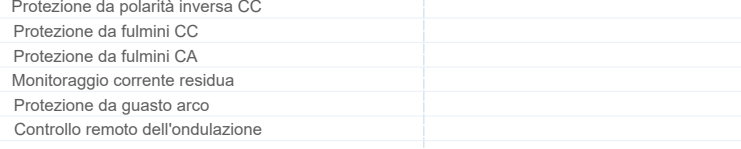
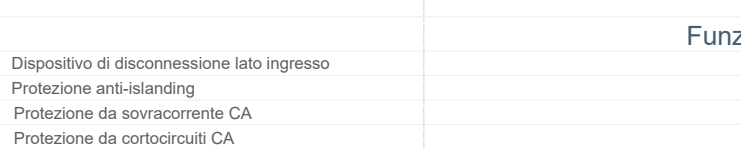
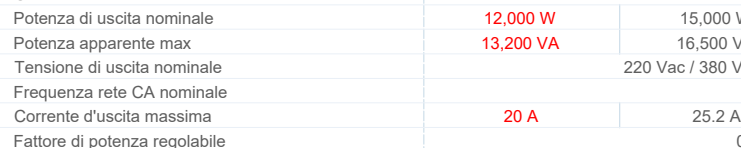
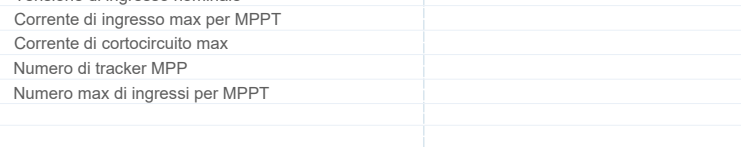
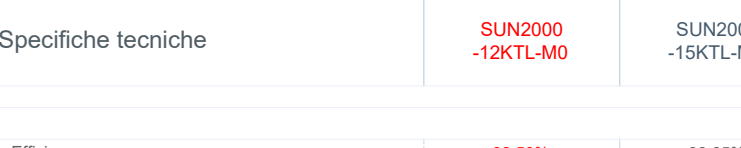
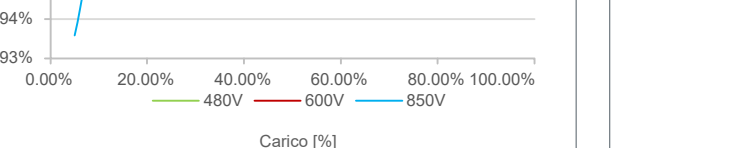
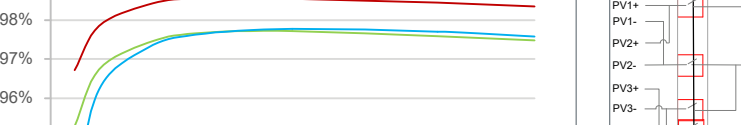
Generatore FV
n° 24 moduli da 500 Wp
in silicio monocristallino
Ptot =12,00 kWp



Generatore FV
n° 24 moduli da 500 Wp
in silicio monocristallino
Ptot =12,00 kWp

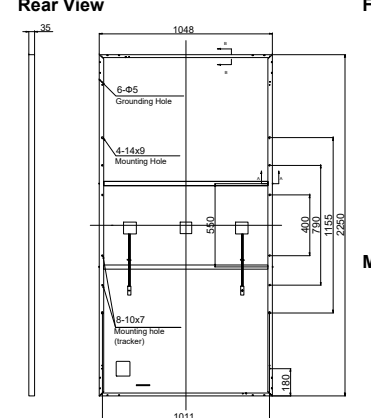


Generatore FV
n° 24 moduli da 500 Wp
in silicio monocristallino
Ptot =12,00 kWp

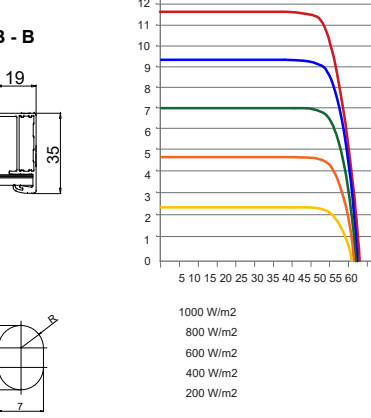


MODULO FV TIPO

ENGINEERING DRAWING (mm)



CS3Y-490MS / I-V CURVES



ELECTRICAL DATA | STC*

CS3Y	475MS 480MS 485MS 490MS 495MS 500MS
Nominal Max. Power (Pmax)	475 W 480 W 485 W 490 W 495 W 500 W
Opt. Operating Voltage (Vmp)	44.0 V 44.2 V 44.4 V 44.6 V 44.8 V 45.0 V
Opt. Operating Current (Imp)	10.81 A 10.87 A 10.94 A 11.00 A 11.06 A 11.12 A
Open Circuit Voltage (Voc)	52.7 V 52.9 V 53.1 V 53.3 V 53.5 V 53.7 V
Short Circuit Current (Isc)	11.52 A 11.57 A 11.62 A 11.67 A 11.72 A 11.77 A
Module Efficiency	20.1% 20.4% 20.6% 20.8% 21.0% 21.2%
Operating Temperature	-40°C ~ +85°C
Max. System Voltage	1500V (IEC/UL) or 1000V (IEC/UL)
Module Fire Performance	TYPE 1 (UL 61730) or CLASS C (IEC 61730)
Max. Series Fuse Rating	20 A
Application Classification	Class A
Power Tolerance	0 ~ + 10 W

ELECTRICAL DATA | NMOT*

CS3Y	475MS 480MS 485MS 490MS 495MS 500MS
Nominal Max. Power (Pmax)	354 W 358 W 362 W 365 W 369 W 373 W
Opt. Operating Voltage (Vmp)	41.0 V 41.2 V 41.4 V 41.6 V 41.8 V 42.0 V
Opt. Operating Current (Imp)	8.64 A 8.69 A 8.75 A 8.79 A 8.83 A 8.89 A
Open Circuit Voltage (Voc)	49.6 V 49.8 V 50.0 V 50.2 V 50.3 V 50.5 V
Short Circuit Current (Isc)	9.29 A 9.33 A 9.38 A 9.42 A 9.46 A 9.50 A

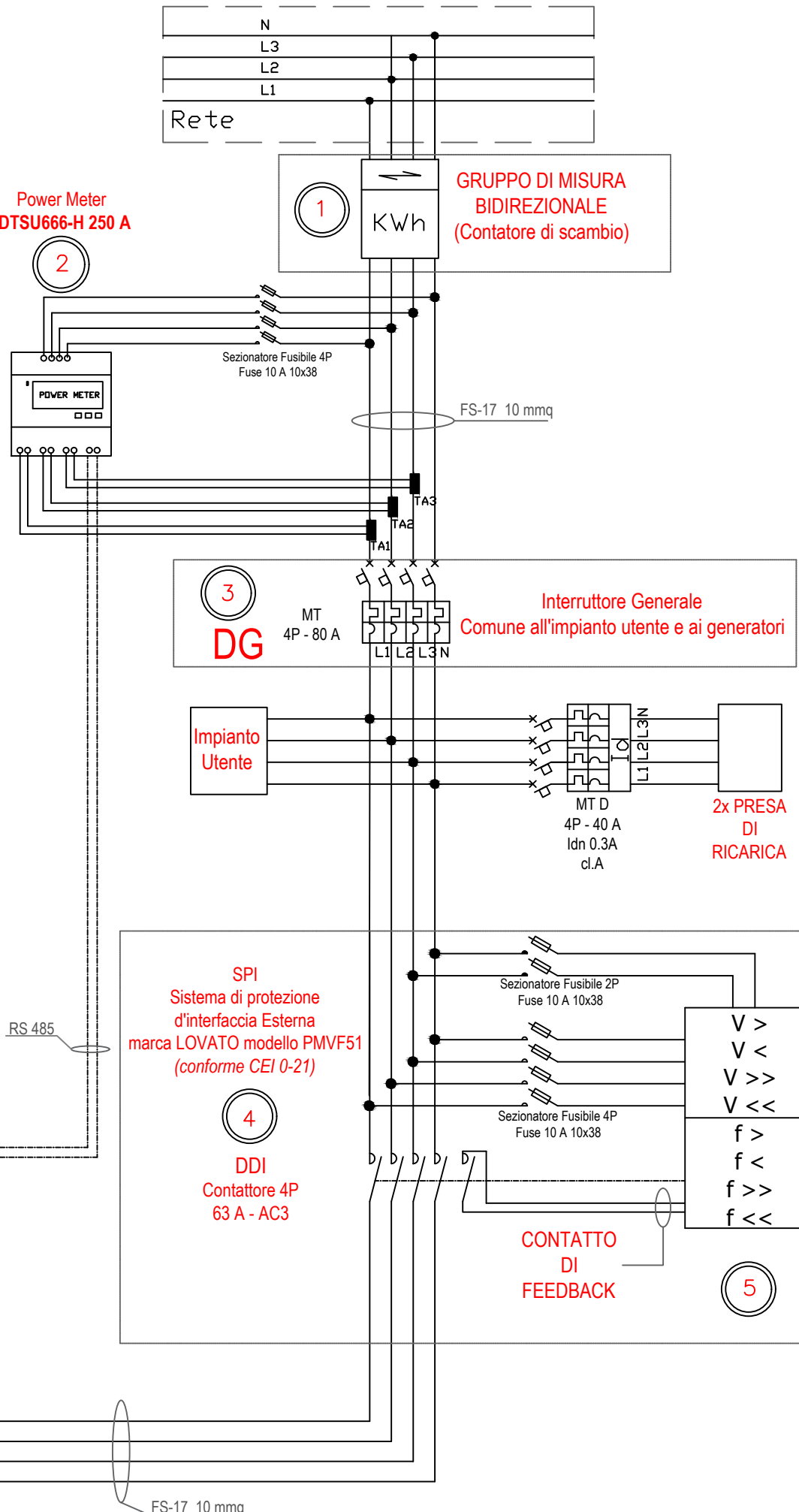
TEMPERATURE CHARACTERISTICS

Specification	Data
Temperature Coefficient (Pmax)	-0.35 % / °C
Temperature Coefficient (Voc)	-0.27 % / °C
Temperature Coefficient (Isc)	0.05 % / °C
Nominal Module Operating Temperature	42 ± 3 °C

CANADIAN SOLAR INC.

545 Speedvale Avenue West, Guelph, Ontario N1K 1E6, Canada, www.canadiansolar.com, support@canadiansolar.com

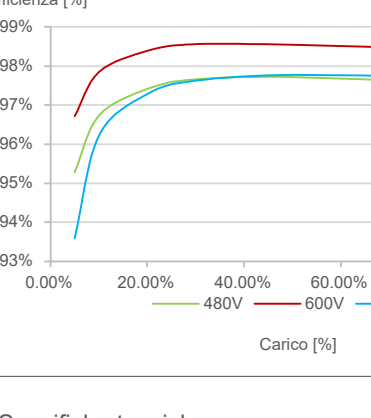
July 2020. All rights reserved. PV Module Product Datasheet V2.3_EN



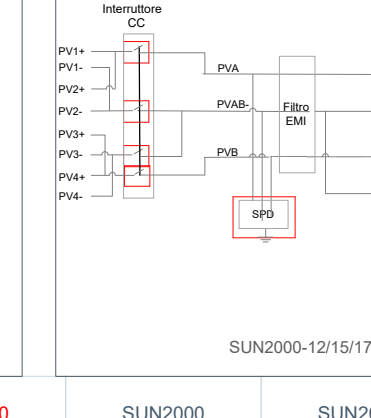
SCEHAM ELETTRICO UNIFILARE

INVERTER TIPO

Curva di efficienza



Schema elettrico



Specifiche tecniche

Efficienza max	98.50%
Efficienza ponderata europea	98.00%

Potenza fotovoltaica max raccomandata

24,000 Wp

Tensione di ingresso max

1,080 V

Tensione di servizio

200 V

Range di tensione operativa

160 V ~ 950 V

Tensione di ingresso nominale

600 V

Corrente di ingresso max per MPPT

22 A

Corrente di cortocircuito max

30 A

Numero di tracker MPPT

2

Numero max di ingressi per MPPT

2

Connessione rete elettrica

Trifase

Potenza di uscita nominale

12,000 W

Potenza apparente max

13,200 VA

Tensione di uscita nominale

220 V ac / 380 V ac

Frequenza rete CA nominale

50 Hz / 60 Hz

Corrente d'uscita massima

20 A

Fattore di potenza regolabile

0.8 capac... 0.8 indut

Max. Distorsione Armonica Totale

≤ 3 %

Funzioni e protezioni

Dispositivo di disconnessione lato ingresso	SI
Protezione anti-islanding	SI
Protezione da sovracorrente CA	SI
Protezione da cortocircuiti CA	SI
Protezione da sovratensione CA	SI
Protezione da polarità inversa CC	SI
Protezione da fulmini CC	SI
Protezione da fulmini CA	SI
Monitoraggio corrente residua	SI
Protezione da guasto arco	SI
Controllo remoto dell'ondulazione	SI

Dati generali

Range temperatura d'esercizio	-25 ~ + 60 °C (riduzione oltre 45 °C alla potenza di uscita nominale)
Umidità di esercizio relativa	0 % RH ~ 100% RH
Altitudine operativa	0 ~ 4,000 m (riduzione oltre 2,000 m)
Raffreddamento	Convezione naturale
Display	Indicatori LED; WLAN integrate + FusionSolar App
Comunicazione	RS485; WLAN tramite Smart Dongle-WLAN; 4G / 3G / 2G tramite Smart Dongle-4G
Peso (compresa staffa di montaggio)	25 kg
Dimensioni (compresa staffa di montaggio)	525 x 470 x 262 mm
Grado di protezione	IP65

Conformità agli standard (più disponibile su richiesta)

EN/IEC 62109-1, EN/IEC 62109-2
G98, G99, EN 50438, CEI 0-21, VDE-AR-N4105, VDE-AR-N4110, AS 4777, C10111, ABNT, UTE C15-712, RD 1699, TOP D4, NRS 097-2-1, IEC61727, IEC62116, DEWA 2.0