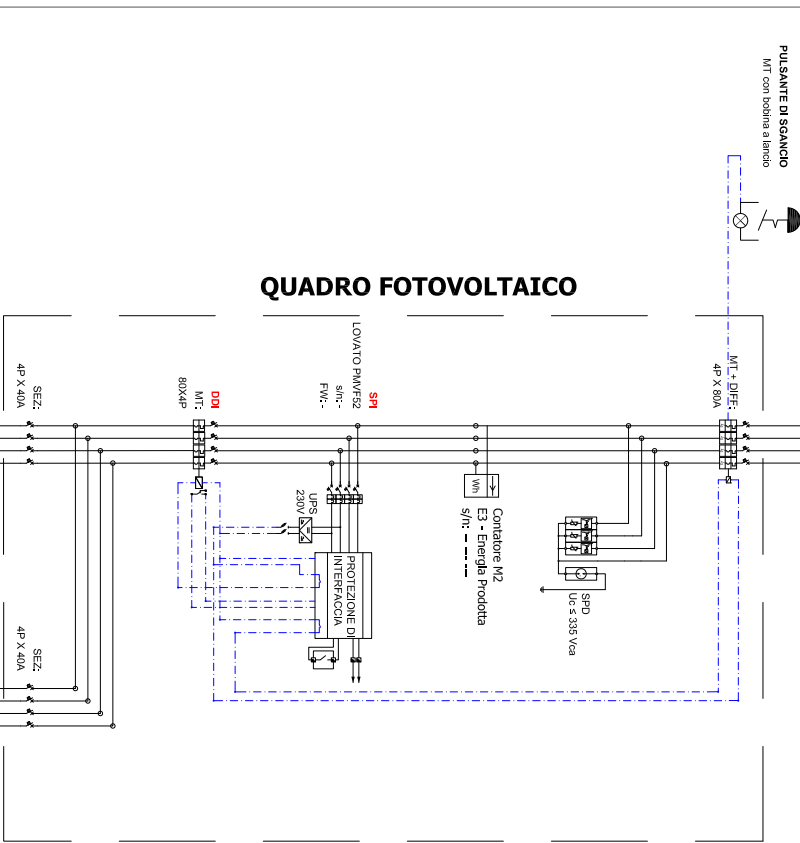


DATI INVERTER

SUN2000-12/15/17/20/25<-MB0
 Smart Energy Controller

Technical Specification				SUN2000-15K-MB0	SUN2000-17K-MB0	SUN2000-20K-MB0
Max. efficiency	98.4 %	98.4 %	98.4 %	98.4 %	98.4 %	98.4 %
European weighted efficiency	97.9 %	98.0 %	98.1 %	98.1 %	98.1 %	98.1 %
Recommended max. PV power	18,000 Wp	22,200 Wp	25,500 Wp	30,000 Wp	30,000 Wp	30,000 Wp
Max. short-circuit current	30 A (two strings)	30 A (two strings)	30 A (two strings)	30 A (two strings)	30 A (two strings)	30 A (two strings)
Max. short-circuit current	40 A	40 A	40 A	40 A	40 A	40 A
MPPT operating voltage range	150 V ~ 1000 V	150 V ~ 1000 V	150 V ~ 1000 V	150 V ~ 1000 V	150 V ~ 1000 V	150 V ~ 1000 V
Full-load MPPT voltage range	370 V ~ 800 V	410 V ~ 800 V	440 V ~ 800 V	480 V ~ 800 V	480 V ~ 800 V	480 V ~ 800 V
Max. number of strings	2	2	2	2	2	2
Number of MPPT trackers	2	2	2	2	2	2
Compatible Smart String ESS	21 kW (single string)	25.5 kW (two strings)	25.5 kW (two strings)	25.5 kW (two strings)	25.5 kW (two strings)	25.5 kW (two strings)
Max. discharging power	13.2 kW	16.5 kW	16.5 kW	16.5 kW	16.5 kW	16.5 kW
Max. operating current	13.2 A	16.5 A	16.5 A	16.5 A	16.5 A	16.5 A
Open string voltage range	150 V ~ 1000 V	150 V ~ 1000 V	150 V ~ 1000 V	150 V ~ 1000 V	150 V ~ 1000 V	150 V ~ 1000 V
Max. operating voltage range	150 V ~ 1000 V	150 V ~ 1000 V	150 V ~ 1000 V	150 V ~ 1000 V	150 V ~ 1000 V	150 V ~ 1000 V
Rated output power	12,000 W	15,000 W	17,000 W	20,000 W	20,000 W	20,000 W
Max. apparent power	13,200 VA	16,500 VA	16,500 VA	16,500 VA	16,500 VA	16,500 VA



DATI MODULO

Front

Rear

Maximum Power: Pmax [W]	510
Open Circuit Voltage: Voc [V]	46.05
Short Circuit Current: Isc [A]	14.00
Voltage at Maximum Power: Vmp [V]	37.87
Current at Maximum Power: Imp [A]	13.47
Module Efficiency: η [%]	21.5
Cells	72
Cell Orientation	132[6x22]
Dimension	2093x2113x42mm
Weight	25.4kg
Front Glass	3.2mm high transmittance, AR coated tempered glass
Backsheet	White
Frame	Anodized aluminum alloy frame
Junction Box	IP68, 3 diodes
Output Cable	4.0mm²
Cable Length	+1200mm, -1200mm, length can be customized
Wind/Snow Load	2400Pa/5400Pa
Packaging	31pcs per pallet, 682pcs per 40'H-C

DATI IMPIANTO FOTOVOLTAICO			
POT. PICCO	53.04 kW		
POT. IMMESSA	40.00 kW		
MODULI	TW SOLAR TMWPD-66HS10 da 510W		
INVERTER 1-2	HUAWEI SUN2000-20K-MB0		

CONFIGURAZIONE INVERTER 1

Ingresso	N. Moduli	kW	Tot
A	13	6,63	26,52
B	13	6,63	

CONFIGURAZIONE INVERTER 2

Ingresso	N. Moduli	kW	Tot
A	13	6,63	26,52
B	13	6,63	

UBICAZIONE:	Via Fonte Fano 1, 25065 Lumezzane (BS)		
COMITENTE:	COMUNE DI LUMEZZANE	Redatto da:	M. C.

PROGETTO ESECUTIVO
 SCHEMA UNIFILARE
 Scuola Arcobaleno

Nuovo impianto fotovoltaico con 40,00 kW di Potenza immessa con connessione trifase in bassa tensione Scuola Arcobaleno			
REV.	COMMESSA	NOME REVISIONE	SCALA
00	203/003	Prima emissione	18/04/2025

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