

VOLTAGE CONVERTER FOR PHOTOVOLTAIC

Input: 100 a 1000 VDC

Output: 24 VDC (15W)



Description

Converter DC-DC with wide range of input voltage (100...1000VDC) and output voltage 24VDC and power 15W (24V/625mA).

Applications

Can be widely used in photovoltaic installations and high voltage inverters. Convert the output voltage of PV panels to 24VDC. Suitable for installations where there is no auxiliary AC voltage (230 VAC, 125VAC,...).

Construction features

- Box for installation in DIN rail.
- Two green LEDs for indicate the presence of input and output voltage.
- Terminals on lower front cover.

Technical Characteristics

- Wide input voltage range: 100 ... 1000 VDC
- Industrial operating temperature : -40°C a 70°C
- Isolation input-output 4000VDC.
- High efficiency.
- Low ripple and noise.
- Protection of output short circuit (auto recovery)

Technical data

Output

Output voltage	+24Vdc
Maximum output current	625 mA
Maximum output power	15W
Ripple and noise (p-p)	200mVpp(Tip.)
Accuracy voltage output	±1%(Tip.)
Max .capacitive load (full load)	1500µF
Short circuit protection	Continuous and auto resume
Protection over voltage	Voltage limited <28V
Efficiency (% , tip.)	80% (typ.)
Protection input under voltage	Under voltage protection 175..185V
MTBF	MIL-HDBK-217@25°C>300.000 h

Input

Input voltage range	100 ~1000 VDC		
	200 VDC	600 VDC	1000 VDC
Input current	120mA (tip.)	40mA (tip.)	22mA (tip.)
Inrush current	7A (tip.)	20A (tip)	20A (tip.)
External input fuse	2A slow blow	recommended	

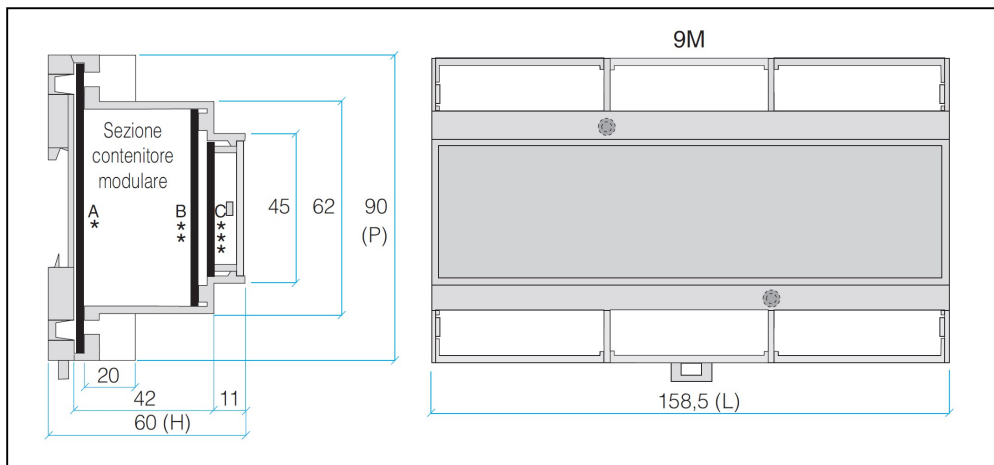
Common Specifications

Temperature Ranges	Operation	-40°C a +70°C
	Storage	-40°C a +105°C
	Temperature Drift	±0,02 %/°C (max.)
Humidity	20.. 95%	
Delay time	1 s. (max.)	
Cooling	Free air convection	
Isolation Voltage	4000VDC/1min.	
EMC	EMI	EN55022
	EMS	EN6100-4-2 contact ±6kv /air ±8kV criteria B
		EN6100-4-3 10V/m criteria A
		EN6100-4-4 ±4kV criteria B
		EN6100 4-5 ±2kV/±4kV criteria B
		EN6100 4-6 10 Vrms criteria A
		EN6100 4-8 10A/m criteria A
		EN6100-4-11 0%-70% criteria B
Peso	300g	

Model: CONV-1000V24

Box Dimensions (millimeters)

Box Mounting: rail OMEGA DIN EN 50022. Self-extinguishing plastic material VO class



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