

DC/DC CONVERTER 300-1500 V - SS-10-240/DIN_1K5

High voltage DC/DC power supply unit with wide input range, designed to supply monitoring devices of photovoltaic power plants directly from the generator strings. Low self-consumption / Safe separation of primary – secondary circuits / secondary circuits SELV type / LED operation indication / DIN rail mount.

TECHNICAL PARAMETERS

Input data

- Input voltage, DC 300-1500 V DC
- Input current, DC max. 40 mA
- Reverse polarity protection Yes
- Input fuse Yes (internal)
- Input voltage start ramp any slope

Output data

- Output voltage 24 V DC (+/-7%)
- including line and load regulation
- Output current 400 mA max.
- Output power 10 W
- Power derating -2%/°C from 50°C to 70°C ambient temperature.
- Short-circuit protection Yes (auto resume)
- Max. residual ripple <150 mV

General data

- Efficiency, max. 85 %
- Max. power loss (no load) 1,5 W
- Max. power loss (nominal load) 3,72 W
- Impulse withstand 4 kV line to line, 4 kV line to case
- Isolation between primary and secondary > 50 MΩ, 8 kV hi-pot test, double insulation
- Cooling natural (free air)
- IP code IP20
- Weight 250 g
- Material of enclosure NORYL
- Dimensions 90x88x62mm
- Class of protection II.
- Pollution degree 2
- MTTF 2 500 000 hr. according to IEC61709 (SN29500) @ 25°C
- RoHS comply Yes

Connection data	Input	Output
• Terminal blocks	Weidmüller LP type	Weidmüller LP type
• Number of terminals	2 (+-)	6 (++++-)
• Cable length, max.	unrestricted	<3 m
• Wire cross-section		
• Solid min/max	0,5/6 mm ²	0,5/6 mm ²
•	20/10 AWG	20/10 AWG
• Flexible min/max	0,5/4 mm ²	0,5/4 mm ²
•	20/12 AWG	20/12 AWG
• Tightening torque, min/max	0,5/0,6 Nm	0,5/0,6 Nm
Signal indication		
• Device working	LED green	

Environmental conditions

- Operating temperature -20 .. 70°C
- Relative humidity (non-condensing) 5% to 90%
- Installation altitude < 2000 m above sea level

TECHNICAL STANDARDS

Safety

- EN/IEC 61204-7 ed1.0

EMC

- EN 61000-4-2: criterion B, kond. +- 4kV, air +-8kV
- EN/IEC 61204-3 ed2.0
- EN 61000-4-3: criterion A, 80-1000MHz 10V/m AM80%, 900MHz/200Hz 10V/m 50%
- EN 61000-4-4: criterion B, input only +-2kV 5/50ns
- EN 61000-4-5 ed.2: criterion B, input only, 3kV line to line, 4 kV line to case
- EN 61000-4-6 ed.3: criterion A, input only, 0,15-80MHz 10Vrms 80% (opt. 9-150kHz 20Vrms),
- EN 55011 ed.3: class A

Mechanical

- Topple and vibration: tables 13 and 14 of EN 50178:1997

Limited warranty 8 years

PACKING AND STORAGE

Product is supplied individually packaged in paper box, users guide for each piece is included.

Storage temperature -25 to 80°C, relative humidity < 90% (not condensing). It is prohibited to expose product to a mechanical shocks and injurious gases.