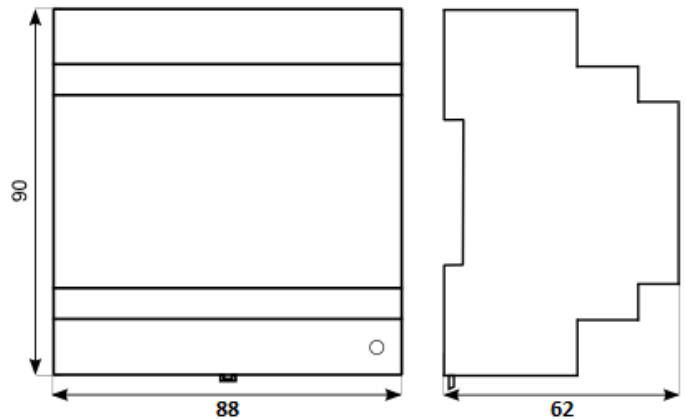


SS-36-120/DIN_1K5



DESCRIPTION

DC/DC converter with high input voltage, designed for direct supply of control and monitoring systems from PV strings or from traction voltage. The converter is characterized by low self-consumption. Safe separation of primary and secondary circuits. Operation is indicated by an LED. Designed for DIN rail mounting.

TECHNICAL PARAMETERS

Input Data

Input voltage, DC	300-1500 V DC (power derating -0,33% / V from 400 V to 300 V DC)
Input current, DC max.	100 mA
Input fuse	Yes (internal)

Output Data

Output voltage	12 V DC (+/-7 %)
Output current	2,5 A max.
Output power	30 W
Power derating	-2 %/°C from 45 °C to 60 °C ambient temperature.
Short-circuit protection	Yes (auto resume)
Max. residual ripple	<200 mV
Max. capacitive load	2200 uF

General Data

Efficiency, max.	approx. 84 %
Max. power loss (nominal load)	approx. 9 W
Impulse withstand	5,3 V line to line, 5,3 kV line to case
Isolation between primary and secondary	8 kV hi-pot test, double insulation
Cooling	natural (free air)
IP code	IP20
Weight	270 g
Material of enclosure	NORYL
Dimensions	90 x 88 x 62 mm
Class of protection	II.

Pollution degree 2
 RoHS comply Yes

Connection data

	Input	Output
Number of terminals	4 (+,+,--)	6 (---,+++)
Cable length max.	unrestricted	<3m
Wire cross-section		
Solid min/max	0,5/6 mm ² 20/10 AWG	0,5/2,5 mm ² 20/13 AWG
Flexible min/max	0,5/4 mm ² 20/12 AWG	0,5/2,5 mm ² 20/13 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 -30°C to 60 °C
 Relative humidity (non-condensing) 5% to 90 %RH
 Installation altitude <3000 m above sea level

The power supply is designed for continuous operation, overvoltage category in installation 3 according to EN 61010-1 and is resistant to short-circuit at the output.

TECHNICAL STANDARDS

Safety EN 61204-7 ed.2
 EMC EN 61000-6-1 ed.2
 EN 61000-6-3 ed.2

Limited warranty 3 years

PACKING AND STORAGE

The product is supplied bulk packaged, user's guide for each piece is included.
 Storage temperature -35 to 70 °C, relative humidity < 90 % (not condensing). It is prohibited to expose the product to mechanical shocks and injurious gases.

