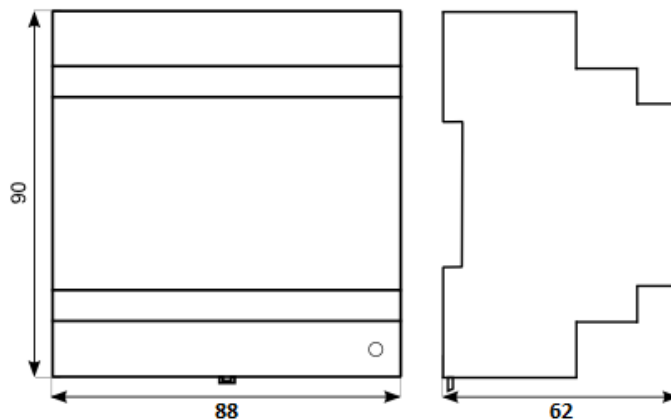


SS-31-240/DIN_4kV



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	350-1000 V DC
Input current, DC max.	100 mA
Input fuse	Yes (internal)

Output Data

Output voltage	24 V DC (+/-7 %)
Output current	1,2 A max.
Output power	29 W
Power derating	-2 %/°C from 40 °C to 60 °C ambient temperature.
Short-circuit protection	Yes (auto resume)
Max. residual ripple	<150 mV

General Data

Efficiency, max.	approx. 84 %
Max. power loss (nominal load)	approx. 5,5 W
Impulse withstand	0,5 V line to line, 0,5 kV line to case
Isolation between primary and secondary	4 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

Number of terminals
Cable length max.
Wire cross-section
Solid min/max

Input

4 (++,--)
unrestricted

Output

4 (--,++)
<3m

Indication

2(C,E)
<3m

Flexible min/max
Tightening torque, min/max

0,5/2,5 mm²
20/13 AWG
0,5/2,5 mm²
20/13 AWG
0,5/0,6 Nm

0,5/2,5 mm²
20/13 AWG
0,5/2,5 mm²
20/13 AWG
0,5/0,6 Nm

0,5/2,5 mm²
20/13 AWG
0,5/2,5 mm²
20/13 AWG
0,5/0,6 Nm

Signal indication

Device working LED green, outputs C and E connected - open collector 35 V / 10mA max.

Environmental conditions

Operating temperature -20°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.