PS series power supply

Enclosed, 24VDC switch mode power supply

CODE: **PS-1502450** **EN/V**

TYPE: **PS 24V/5A enclosed switch mode power supply**

Features of the power supply unit:

- power output 5A/24÷28VDC*
- wide AC input voltage range 176÷264V
- high efficiency 85%
- LED optical signalisation
- protections:
  - SCP short-circuit protection
  - overvoltage OVP
  - overvoltage protection
  - overload (OLP)
- warranty – 2 year from the production date

DESCRIPTION

The power supply unit is intended for the feeding of alarm system equipments, which require 24V DC supply voltage and current load **I=5A**. The design enables simple changing of the output voltage, within the range of 24V÷28V DC, using a potentiometer. The power supply unit is protected against short-circuit, overload and overvoltage.

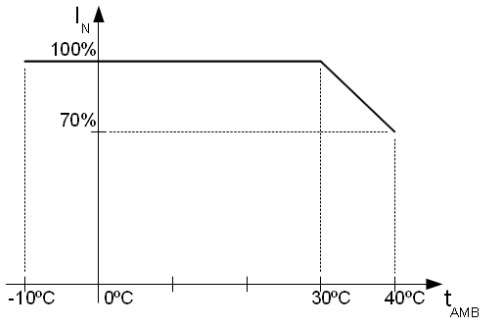
TECHNICAL DATA

Supply voltage	176 ÷ 264 V AC
Current consumption	1,1A@230VAC max.
Supply power	150W max.
Efficiency	85%
Output voltage	24V DC
Output current t_{AMB}<30°C	**5 A - see graph 1.**
Output current t_{AMB}=40°C	**3,5 A - see graph 1.**
Voltage adjustment range	24 V ÷ 28V DC
Ripple voltage	150mV p-p max.
Short-circuit protection SCP	electronic (activation requires disconnecting load or supply for about 5 s.)
Overload protection OLP	105-150% of power supply (activation requires disconnecting load or supply for about 5 s.)
Surge protection	varistors
Overvoltage protection OVP	>32V (activation requires disconnecting the load or supply for about 20 s.)
Optical signalisation	green LED – presence of DC voltage
Operation conditions	2-nd enviromental class, temperature: -10 °C÷40 °C relative humidity 20%...90%, without condensation
Dimensions (LxWxH)	199 x 110 x 50 [mm]
Net/gross weight	0,73kg / 0,78kg
Protection class PN-EN 60950-1:2007	I (first) – requires a protective conductor (PE)
Connectors	power-supply:Φ0,63-2,50 (AWG 22-10) outputs : Φ0,63-2,50 (AWG 22-10)
Declarations, warranty	CE, RoHS, 2 year from the production date

* In order to extend the life of the power supply, the load current of 3,5A is recommended.

* See graph 1.

Output current vs temperature



Graph 1.
Allowable output current from the power supply depending on ambient temperature (instantaneous load).

Dimensions and fitting of the PS-1502450 power supply