

PS series power supply

Enclosed, 48VDC switch mode power supply



CODE: **PS-1504830** v1.0
TYPE: **PS 48V/3A enclosed switch mode power supply**

EN

Features of the power supply unit:

- power output 3A/48÷53VDC*
- 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 48V DC supply voltage and current load $I=3A$. The design enables simple changing of the output voltage, within the range of 48V÷53V DC, using a potentiometer. The power supply units is protected against short-circuit, overload, surge protection and overvoltage.

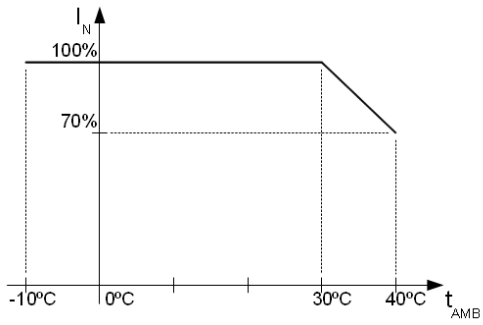
TECHNICAL DATA

Supply voltage	176 ÷ 264 V AC
Current consumption	1,3A@230VAC max.
Supply power	150W max.
Efficiency	85%
Output voltage	48V DC
Output current $t_{AMB}<30^{\circ}C$	3 A - see graph 1.
Output current $t_{AMB}=40^{\circ}C$	2,1 A - see graph 1.
Voltage adjustment range	48 V ÷ 53V DC
Ripple voltage	200mV 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 20 s.)
Surge protection	varistors
Overvoltage protection OVP	>60V (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	0,7kg / 0,74kg
Protection class PN-EN 60950-1:2007	I (first) – requires a protective conductor (PE)
Connectors	power-supply: $\Phi 0,63-2,50$ (AWG 22-10) outputs: $\Phi 0,63-2,50$ (AWG 22-10)
Declarations, warranty	CE, 2 year from the production date

* In order to extend the life of the power supply, the load current of 2,1A 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-1504830 power supply

