

# PS series power supply

Enclosed, 48VDC switch mode power supply



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

EN



## Features of the power supply unit:

- power output 3A/48÷53V DC\*
- 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.

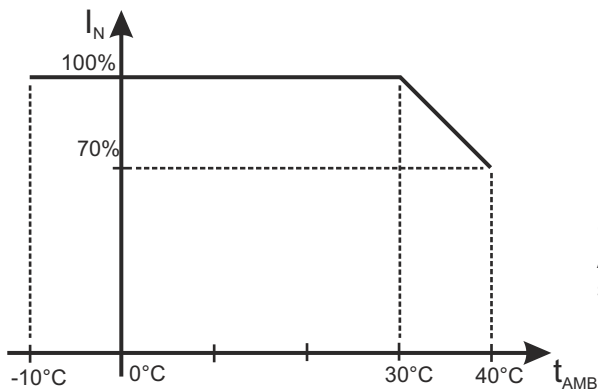
## TECHNICAL DATA

Supply voltage	176 ÷ 264V AC
Current consumption	1,3A@230V AC max.
Supply power	150W max.
Efficiency	85%
Output voltage	48V DC
<b>Output current <math>t_{AMB}&lt;30^{\circ}C</math></b>	<b>3 A - see graph 1.</b>
<b>Output current <math>t_{AMB}=40^{\circ}C</math></b>	<b>2,1 A - see graph 1.</b>
Voltage adjustment range	48V ÷ 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: $-10^{\circ}C \div +40^{\circ}C$ relative humidity 20%...90%, without condensation
Dimensions	L=199, W=110, H=50 [+/- 2mm]
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

