

# PS series power supply

Enclosed, 12VDC switch mode power supply



CODE: **PS-251220**  
TYPE: **PS 12V/2A enclosed switch mode power supply**

EN/VI

## Features of the power supply unit:

- power output 3A/12÷15VDC\*
- wide AC input voltage range 85÷264V
- high efficiency 74%
- 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 12V DC supply voltage and current load  $I=2A$ . The design enables simple changing of the output voltage, within the range of 12V÷15V DC, using a potentiometer. The power supply unit is protected against short-circuit, overload and overvoltage.

## TECHNICAL DATA

Supply voltage	85÷264VAC
Current consumption	0,18A@230VAC max.
Supply power	25W max.
Efficiency	74%
Output voltage	12V DC
Output current $t_{AMB}<30^{\circ}C$	2A - see graph 1.
Output current $t_{AMB}=40^{\circ}C$	1,4 A - see graph 1.
Voltage adjustment range	12 V ÷ 15V DC
Ripple voltage	100mV p-p max.
Short-circuit protection SCP	electronic, automatic recovery
Overload protection OLP	105-150% of power supply, automatic recovery
Surge protection	varistors
Overvoltage protection OVP	>16V (automatic return)
Optical signalisation	green LED – presence of DC voltage
Operation conditions	2-nd environmental class, temperature: -10 °C÷+40 °C relative humidity 20%...90%, without condensation
Dimensions (LxWxH)	110 x 78 x 36 [mm]
Net/gross weight	0,22kg / 0,24kg
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, RoHS, 2 year from the production date

\* In order to extend the life of the power supply, the load current of 1,4A is recommended.

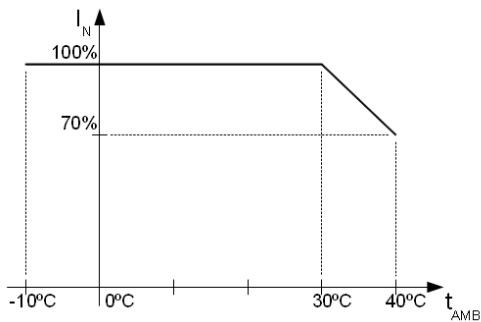
\* See graph 1.

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## 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-251220 power supply

