

PS series power supply

Enclosed, 12V DC switch mode power supply



CODE: **PS-151210** v1.0/III
TYPE: **PS 12V/1A enclosed switch mode power supply**

EN



Features of the power supply unit:

- power output 1A/12÷15V DC*
- wide AC input voltage range 85÷264V
- high efficiency 74%
- LED optical signalisation
- protections:
 - SCP short-circuit protection
 - overvoltage OVP
 - 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=1A**. 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 ÷ 264V AC |
| Current consumption | 0,15A@230VAC max. |
| Supply power | 12W max. |
| Efficiency | 74% |
| Output voltage | 12V DC |
| Output current $t_{AMB} < 30^{\circ}\text{C}$ | 1A - see graph 1. |
| Output current $t_{AMB} = 40^{\circ}\text{C}$ | 0,7A - see graph 1. |
| Voltage adjustment range | 12V ÷ 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 |
| Oversupply protection OVP | >16V (automatic return) |
| Optical signalisation | green LED – presence of DC voltage |
| Operation conditions | 2-nd enviromental class, temperature: $-10^{\circ}\text{C} \div +40^{\circ}\text{C}$ relative humidity 20%...90%, without condensation |
| Dimensions | L=85, W=60, H=37 [\pm 2mm] |
| Net/gross weight | 0,17kg / 0,18kg |
| Protection class PN-EN 60950-1:2007 | I (first) – requires a protective conductor (PE) |
| Connectors | power-supply: $\Phi 0,63-1,3$ (AWG 22-16) outputs: $\Phi 0,63-1,3$ (AWG 22-16) |
| Declarations, warranty | CE, RoHS, 2 year from the production date |

* In order to extend the life of the power supply, the load current of 0,7A is recommended.

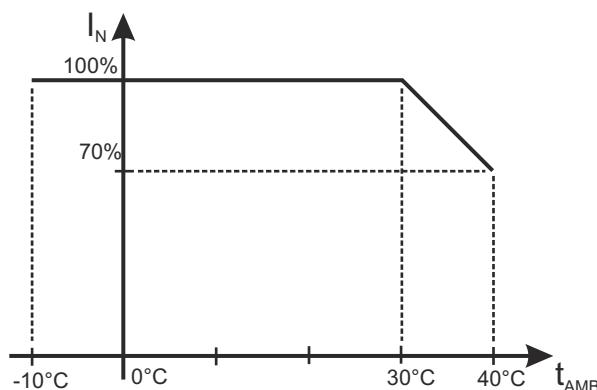
* See graph 1.

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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-151210 power supply

