

PS series power supply

Enclosed, 12VDC switch mode power supply



CODE: PS-20012140
TYPE: PS 12V/14A enclosed switch mode power supply

EN/V

Features of the power supply unit:

- power output 14A/12÷15VDC*
- 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 12V DC supply voltage and current load **I=14A**. 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	176 ÷ 264 V AC 50÷60Hz
Current consumption	1,36A@230VAC max.
Supply power	200W max.
Efficiency	85%
Output voltage	12V DC
Output current $t_{AMB}<30^{\circ}C$	14A - see graph 1.
Output current $t_{AMB}=40^{\circ}C$	10A - 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 enviromental class, temperature: -10 °C÷40 °C relative humidity 20%...90%, without condensation
Dimensions (LxWxH)	226 x 115 x 50 [mm]
Net/gross weight	0,82kg / 0,90kg
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 10A is recommended.

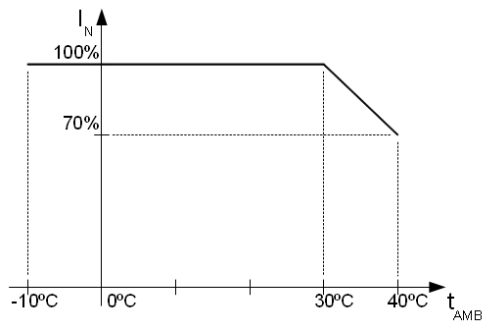
* See graph 1.

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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-20012140 power supply

