

# PS series power supply

Enclosed, 12V DC switch mode power supply



CODE: **PS-15012100** v1.0/X  
 TYPE: **PS 12V/10A enclosed switch mode power supply**

EN



## Features of the power supply unit:

- power output 10A/12±15V DC\*
- wide AC input voltage range 176÷264V
- high efficiency 83%
- 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 230V AC mains supply to alarm system devices, which require **12V DC** voltage and current efficiency of **I=10A**. 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 a short circuit, an overload, a surge or over voltage.

## SPECIFICATION

Supply voltage	176 ÷ 264 V AC
Current consumption	1,1A@230VAC max.
PSU power	150W max.
Efficiency	83%
Output voltage	12V DC
<b>Output current t<sub>AMB</sub>&lt;30°C</b>	<b>10A - see chart 1.</b>
<b>Output current t<sub>AMB</sub>=40°C</b>	<b>7A - see chart 1.</b>
Voltage adjustment range	12 V ÷ 15V DC
Ripple voltage	100mV p-p max.
Short-circuit protection SCP	electronic (activation requires disconnecting the load or supply for about 5 s.)
Overload protection OLP	105-150% of the PSU power (activation requires disconnecting the load or supply for about 5 s.)
Surge protection	varistors
Over voltage protection OVP	>16V (activation requires disconnecting the load or supply for about 20 s.)
LED indication	green LED – presence of DC voltage
Operation conditions	2-nd environmental class, temperature: -10 °C÷40 °C relative humidity 20%...90%, without condensation
Dimensions	199 x 110 x 50 [mm]
Net/gross weight	0,73kg / 0,78kg
Protection class PN-EN 60950-1:2007	I (first) – requires a protective conductor (PE)
Connectors	power-supply: Φ0,63-2,50 (AWG 22-10) outputs: Φ0,63-2,50 (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 7A is recommended.

\* See graph 1.

**Temperature characteristics.**

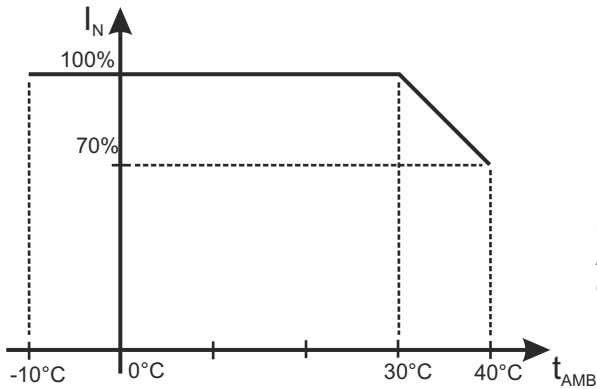


Chart 1.  
 Acceptable output current from the PSU  
 depending on ambient temperature  
 (instantaneous load).

**Dimensions and fitting of the PS-15012100 power supply**

