

PS series power supply

Enclosed, 48V DC switch mode power supply



CODE: **PS-604812** v1.0/II
TYPE: **PS 48V/1,2A enclosed switch mode power supply**

EN



Features of the power supply unit:

- power output 1,2A/48÷53V DC*
- wide AC input voltage range 85÷264V
- high efficiency 81%
- 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 24V DC supply voltage and current load $I=1,2A$. The design enables simple changing of the output voltage, within the range of 48V÷53V DC, using a potentiometer. The power supply unit is protected against short-circuit, overload and overvoltage.

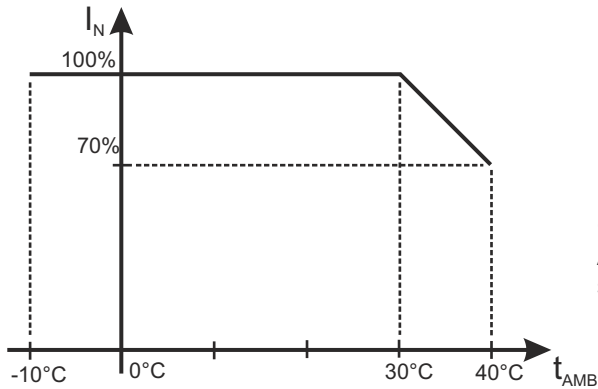
TECHNICAL DATA

Supply voltage	85 ÷ 264V AC, 120 ÷ 370V DC
Current consumption	0,6A@230V AC max.
Supply power	60W max.
Efficiency	81%
Output voltage	48V DC
Output current $t_{AMB}<30^{\circ}C$	1,2 A - see graph 1.
Output current $t_{AMB}=40^{\circ}C$	0,9 A - see graph 1.
Voltage adjustment range	48V ÷ 53V DC
Ripple voltage	150mV 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	>60V (automatic return)
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=159, W=97, H=38 [+/- 2mm]
Net/gross weight	0,48kg / 0,5kg
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 0,9A 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-604812 power supply

