



PSD12010 PSD 12V/1A Desktop type power supply for CCTV



Edition: 9 from 22.01.2018
Supersedes edition: 8 from 01.04.2014

EN

Features of the power supply:

- power output 1A/12VDC*
- universal AC input voltage range 90÷264V
- high efficiency 80%
- LED optical signalisation
- standby power <0,3W
- efficiency level: V
- protections:
 - SCP short-circuit protection
 - overvoltage protection (AC input)
 - overload (OLP)
- warranty – 2 year from the production date

1. Technical description.

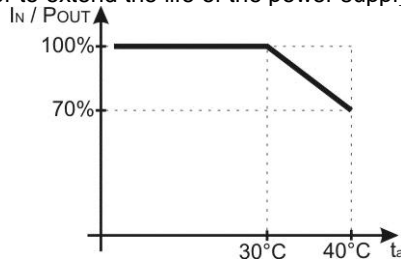
1.1. General description.

Stabilized DC power supply is intended for supply CCTV cameras that require stabilised voltage of **12V DC**. The unit has a cable with a DC5.5/2.1 plug. When connected to fuse blocks of the LB4/xx/xx or LB8/xx/xx family, the power supply unit can feed more cameras (max. 4 or 8). The unit is protected against short-circuit and overload.

1.2. Technical parameters.

| | |
|--------------------------------------|--|
| Supply voltage | 90 ÷ 264V AC 50÷60Hz |
| Current consumption | 0,125A@230V AC max. |
| Supply power | 12W max. |
| Efficiency | 80% |
| Output voltage | 12V DC |
| Output current $t_{AMB}<30^{\circ}C$ | 1A - refer to graph 1. |
| Output current $t_{AMB}=40^{\circ}C$ | 0,7A - refer to graph 1. |
| Ripple voltage | 100mV p-p max. |
| Short-circuit protection SCP | electronic, automatic recovery |
| Overload protection OLP | 105-150% of power supply, automatic recovery |
| Optical signalisation | LED – presence of DC voltage |
| Operation conditions | temperature $0^{\circ}C\div40^{\circ}C$ relative humidity 20%...90%, without condensation |
| Dimensions (LxWxH) | 65 x 36 (56) x30 [mm] |
| Net/gross weight | 0,13kg / 0,15kg |
| Protection class PN-EN 60950-1:2007 | II (second) |
| Length of DC cable | 1,45m + plug DC5,5/2,1 female |
| Length of AC cable | 1,15m + mains plug |
| Storage temperature | -20°C...+60°C |

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



Graph 1.
Relation between output current and ambient temperature (instantaneous load).

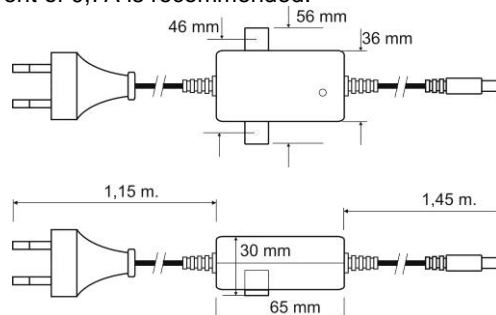


Fig.1. Dimension of power supply.

* Refer to graph 1

1.3. Accessories.

For power supplies are available accessories - fuse blocks and cable adapter. For details –visit www.pulsar.pl.

2. Installation.

2.1. Requirements.

The power supply shall be mounted by the qualified installer having appropriate (required and necessary for a given country) permissions and qualifications for connecting (operating) low-voltage installations. The power supply shall be mounted in closed rooms, according to the environment class II, of the normal air humidity (RH=90% max. without condensation) and the temperature within the range from 0°C to +40°C.

The power supply shall be mounted in a close casing (a cubicle, a terminal device) and in order to fulfill LVD and EMC requirements the rules for power supplies, encasing and shielding shall be observed according to application.

2.2. Installation procedure.

1. Connect the DC output to the load/loads.
2. Connect the power supply unit to the AC line. The power supply has to be installed in such way to keep the air flow around the supply unit.
3. After tests and operation control are performed, the casing (cubicle) shall be closed etc.

3. Maintenance.

Any and all maintenance operations may be performed following the disconnection of the power supply from the power network. The power supply does not require any specific maintenance procedures, however, in the case of significant level of dust, it should be cleaned with the compressed air.



WEEE MARK

According to the EU WEE Directive – It is required not to dispose of electric or electronic waste as unsorted municipal waste and to collect such WEEE separately.

Pulsar

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