



### Features of the power supply unit:

- power output 1,5A/12VDC\*
- universal AC input voltage range 90÷264V
- high efficiency 81%
- standby power <0,3W
- efficiency level: V
- IP 67 case
- protections:
  - SCP short-circuit protection
  - overvoltage protection (AC input)
  - overload (OLP)
- warranty – 2 year from the production date

## 1. Technical description.

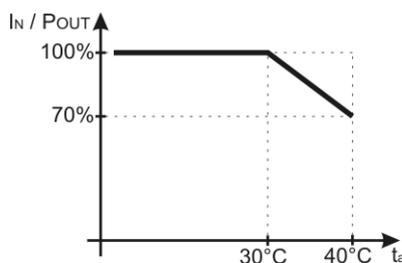
### 1.1. General description.

Stabilized DC power supply is intended for supply CCTV cameras that require stabilised voltage of **12V DC**. Power supply can be assembled in installation box or fitted with 3mm screws. The unit is protected against short-circuit and overload.

### 1.2. Technical parameters.

Supply voltage	90 ÷ 264V AC 50÷60Hz
Current consumption	0,16A@230V AC max.
Supply power	18W max.
Efficiency	81%
Output voltage	12V DC
<b>Output current <math>t_{AMB}&lt;30^{\circ}C</math></b>	<b>1,5A - refer to graph 1.</b>
<b>Output current <math>t_{AMB}=40^{\circ}C</math></b>	<b>1A - refer to graph 1.</b>
Ripple voltage	100mV p-p max.
Short-circuit protection SCP	electronic, automatic recovery
Overload protection OLP	105-150% of power supply, automatic recovery
IP protection class	IP67
Operation conditions	temperature $0^{\circ}C\div40^{\circ}C$ relative humidity 20%...90%
Dimensions (LxWxH)	58 x 58 x 28 [mm]
Net/gross weight	0,16kg / 0,19kg
Protection class PN-EN 60950-1:2007	II (second)
Length of DC cable	0,5m + plug DC5,5/2,1 female
Length of AC cable	0,3 m
Storage temperature	-20°C...+60°C

\* In order to extend the life of the power supply, the load current of 1A is recommended.



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

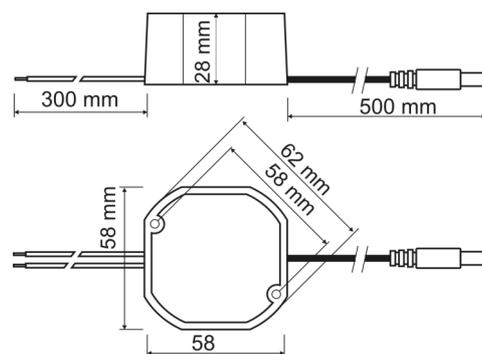


Fig.1. Dimensions of power supply.

\* Refer to graph 1

### 1.3. Accessories.

For the power supplies are available accessories - fuse blocks and cable adapter. For details –visit [www.pulsar.pl](http://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.) and the temperature within the range from 0°C to +40°C.

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. Fit the power supply inside the box or other device.
2. Connect the DC output to the load or to the terminal block.
3. Connect the power supply to the AC line.
4. After tests and operation control are performed, close installation box, case etc. and switch on the power (230V AC).

## 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.

### THE GENERAL WARRANTY CONDITIONS

1. Pulsar K. Bogusz Sp.j. (the manufacturer) grants a two-years warranty for the equipment, counted from the device's production date.
2. The warranty includes free-of-charge repair or replacement with an appropriate equivalent (the selection is at the manufacturer's discretion) if the malfunction is due to the manufacturer, includes manufacturing or material defects, unless such defects have been reported within the warranty period (item 1).
3. The equipment subject to warranty is to be brought to the place where it was purchased, or directly to the main office of the manufacturer.
4. The warranty applies to complete equipment, accompanied by a properly filled warranty claim with a description of the defect.
5. Should the claim be accepted, the manufacturer is obliged to provide warranty repairs, at the earliest convenience, however not later than within 14 days from the delivery to the service centre of the manufacturer.
6. The repair period mentioned in item 5 may be prolonged, if there are no technical possibilities to carry out the repairs, or if the equipment has been conditionally accepted, due to the breaking warranty terms by the claimant.
7. All the services rendered by force of the warranty are carried out at the service centre of the manufacturer, exclusively.
8. The warranty does not cover the defects of the equipment, resulting from:
  - reasons beyond the manufacturer's control,
  - mechanical damage,
  - improper storage and transport,
  - use that violates the operation manual or equipment's intended use
  - fortuitous events, including lightning discharges, power failures, fire, flood, high temperatures and chemical agents,
  - improper installation and configuration (in defiance with the manual),
9. The warranty is void in any of the following circumstances:
  - construction changes
  - repairs carried out by any unauthorized service center
  - damage or removal of warranty labels
  - modifications of the serial number
10. The liability of the manufacturer towards the buyer is limited to the value of the equipment, determined according to the wholesale prices suggested by the manufacturer on the day of purchase.
11. The manufacturer takes no responsibility for the defects that result from:
  - the damaging, malfunctioning or inability to operate the equipment
  - defects that result from using the equipment outside its stated specifications and operating parameters failing to abide by the recommendations and requirements contained in the manual, or the use of the equipment.

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