PSC12010
PSC 12V/1A/55MM power supply
v.2.0

Edition: 12 from 22.05.2023
Supercedes edition: 11 from 20.11.2020

EN

Features:

- power output 1 A/12 V DC*
- universal supply voltage range ~100 - 240 V
- high efficiency 86%
- standby power <0,1 W
- efficiency class: VI
- IP 67 enclosure
- protections:
  - short-circuit protection SCP
  - surge protection (AC input)
  - overload protection OLP
- warranty – 2 years from production date

1. Technical description.

1.1. General description.

The PSU is intended for ~230 V mains supply to CCTV cameras that require stabilised voltage of **12 V DC.** The unit is protected against a short circuit and an overload and a surge.

1.2. Specifications.

Supply voltage	~100 - 240 V; 50/60 Hz
Current consumption	0,3 A
Supply power	12 W max.
Efficiency (average)	86%
Efficiency (10% load)	81%
Output voltage	12 V DC
Output current t_{AMB}<30°C	**1 A instantaneous current - refer to chart 1.**
Output current t_{AMB}=40°C	**0,7 A - refer to chart 1.**
Ripple voltage	100 mV p-p max.
Short-circuit protection SCP	electronic, automatic recovery
Overload protection OLP	105-150% of power supply, automatic recovery
IP protection class	IP67
Operating conditions	Temperature: 0°C - 40°C, relative humidity 20%...90%, without condensation
Dimensions (LxWxH)	50 x 48 x 25 [mm]
Net/gross weight	0,09 / 0,125 [kg]
Protection class EN 62368-1	II (second)
Length of DC cable	0,5 m + plug DC5,5/2,1 female
Length of AC cable	0,3 m
Storage temperature	-20ºC...+60ºC

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

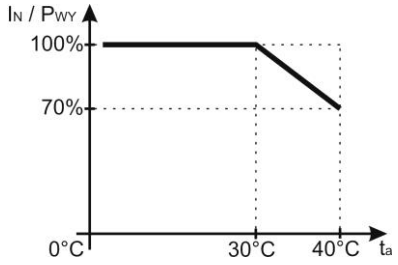

Chart 1.
Relation between output current and ambient temperature (instantaneous load).

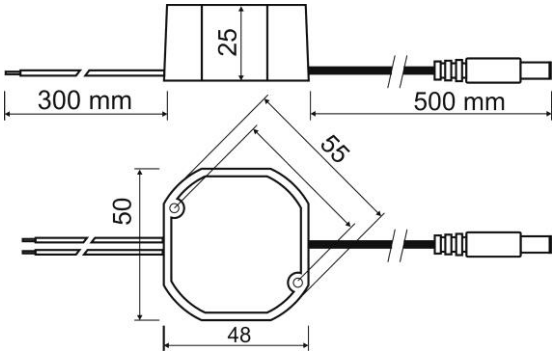

Fig.1. Mechanical view and dimensions of the PSU.

* Refer to chart 1

1.3. Accessories.

Available accessories for the power supplies are: fuse blocks and cable adapters. For details –visit www.pulsar.pl

2. Installation.

2.1. Requirements.

The power supply shall be mounted by a qualified installer, holding relevant permits and licenses (applicable and required for a given country) with ~230 V mains supply. Unit should be mounted in confined spaces with normal relative humidity (RH=90% maximum, without condensing) and temperature from 0°C to +40°C

The device should be installed in the metallic enclosure (cabinet, intended device). In order to meet the LVD and EMC requirements, the rules concerning: supply, development and shielding ought to be followed - accordingly to the application.

2.2. Installation procedure.

1. Fit the power supply inside the box or other device.
2. Connect the DC cables 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.

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 compressed air.

WEEE LABEL
Waste electrical and electronic equipment must not be disposed of with normal household waste.
According to European Union WEEE Directive, waste electrical and electronic equipment should be disposed of separately from normal household waste.

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