PSD520230
PSD 52V/2,3A Desktop type power supply for CCTV

Edition: 3 from 11.12.2018
Supersedes edition: 2 from 12.09.2018

Features of the power supply unit:

- power output 2,3 A/52 V DC*
- universal AC input voltage range ~100-240 V
- built-in power factor correction system (PFC)
- high efficiency 92%
- LED optical signalisation
- standby power <0,2 W
- efficiency level: VI
- protections:
  - SCP short-circuit protection
  - overvoltage protection (AC input)
  - OLP overload
- warranty – 2 year from the production date

1. Technical description.

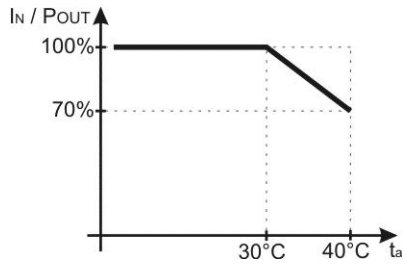
1.1. General description.

The power supply is intended for supply cameras that require stabilised voltage of **52 V DC.** The unit has a cable with a DC5.5/2.1 plug. The power supply unit is protected against short-circuit, overload and overvoltage.

1.2. Technical parameters.

Supply voltage	~100-240 V; 50/60 Hz
Current consumption	1,5-0,6 A
Supply power	120 W max.
Efficiency	92%
Power factor PF	>0,95
Output voltage	52V DC
Output current t_{AMB}<30°C	**2,3 A - refer to graph 1.**
Output current t_{AMB}=40°C	**1,6 A - refer to graph 1.**
Ripple voltage	250mV p-p max.
Short-circuit protection SCP	electronic, automatic recovery
Overload protection OLP	150-200% of power supply, automatic recovery
Optical signalisation	LED – presence of DC voltage
Operation conditions	temperature -10 °C÷40 °C relative humidity 20%...90%, without condensation
Dimensions (LxWxH)	162 x 62 x 34 [mm]
Net/gross weight	0,68kg/0,75kg
Protection class EN 60950-1:2007	II (second)
Lenght of DC cable	1,5m + plug DC5,5/2,1 female
Lenght of AC cable	1,5m + mains plug
Storage temperature	-20ºC...+60ºC

* In order to extend the life of the power supply, the load current of 1,6 A is recommended.



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

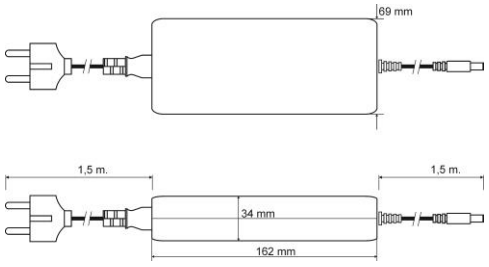


Fig.1. Dimension of power supply.

* 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 -10°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 ~230 V 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.

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