



PSP52003 PSP 52V/0,3A PoE desktop power supply

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Supersedes edition: -----



EN*

Features of the power supply unit:

- power output 52VDC/0,3A
- universal AC input voltage range 90÷264V
- high efficiency 87%
- Data and Power carried over one Ethernet Cable
- Compliance with IEEE 802.3at
- LED optical signalization
- protections:
 - 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 LAN devices complied with IEEE 802.3at through Ethernet Cable, which require stabilized voltage of **37÷57V DC**. The unit provide power through 4/5pins(+) and 7/8pins(-) in Ethernet Cable that according to the Ethernet standard are also used to transmit data. The Power supply can't be used in Gigabit Ethernet! The unit is protected against overvoltage and overload.

1.2. Technical parameters.

| | |
|----------------------------------|---|
| Supply voltage | 90 ÷ 264V AC 50Hz |
| Current consumption | 0,2A@230VAC max. |
| Supply power | 15,4W max. |
| Efficiency | 87% |
| Output voltage | 52V DC is supplied over 4/5 (+) and 7/8 (-) pairs of the PoE connector |
| Output current | 0,3A |
| Ripple voltage | 150mV p-p max. |
| Overload protection OLP | 150-200% of power supply, automatic recovery |
| Optical signalization | PWR – presence of DC voltage PoE – presence of DC voltage at PoE output |
| Operation conditions | temperature -10 °C÷40 °C relative humidity 20%...90%, without condensation |
| Dimensions (LxWxH) | 119x 61 x 38 [mm] |
| Net/gross weight | 0,33kg / 0,38kg |
| Protection class EN 60950-1:2007 | II (second) |
| Length of detachable AC cable | 1,2m |
| Storage temperature | -20°C...+60°C |

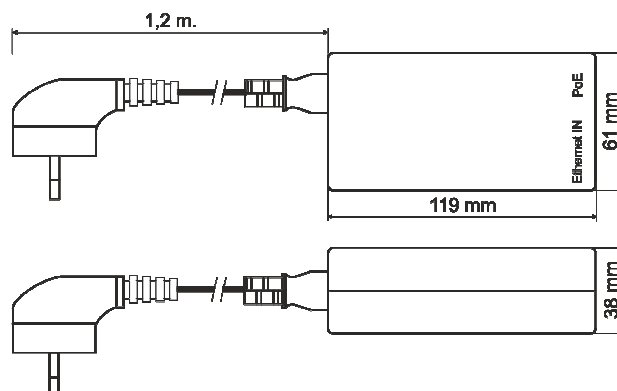


Fig.1. Dimension of power supply.

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.

The power supply unit is intended to use in Ethernet 10Mbit/s and 100Mbit/s (Fast Ethernet) networks. **It can't be used in Gigabit Ethernet!** Connections between power supply and LAN Devices should be made using Ethernet cable Cat.3.

The power supply unit is designed for a continuous operation and is not equipped with a power-switch. Therefore, an appropriate overload protection in the power supply circuit should be provided. Moreover, the user shall be informed about the method of disconnecting the mains voltage (usually through assigning an appropriate fuse in the fuse-box. The electrical system shall follow valid standards and regulations.

2.2. Installation procedure.

1. Connect the Ethernet cables to the RJ45 ports: Ethernet IN, PoE. Attach a LAN data cable patch cord from Ethernet Switch port to the RJ45 connector on PoE unit marked "Ethernet IN". Then attach a second patch cable from the "PoE" RJ45 connector on the PoE unit to the device to be powered.
2. Connect the power supply unit to a grounded AC power source using provided three wires power cord. 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.



WEEE MARKING

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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