POE series power supply unit PoE buffer power supply 27,6V DC



EN**

CODE: **POE042418B** v.1.0/VI

TYPE: PoE 27,6V/4x0,4A/2x7Ah PoE buffer power supply



PSU features:

- DC 27,6V/4x0,4A uninterruptible power supply*
- battery housing: 2x7Ah/12V
- Wide range of AC supply voltage: 176÷264V
- High efficiency: 77%
- battery charging and maintenance control
- deep discharge battery protection UVP
- battery charging current: 0,2A
- battery output protection against short circuit and reverse connection
- designed for 10Mbit/s and 100Mbit/s network

- Voltage control at the AUX1 ÷ AUX4 outputs
- FPS technical output indication of the output fuse activation – relay and OC type
- LED optical indication
- protections:
 - SCP short-circuit protection
 - OVP overvoltage protection
 - Surge protection
 - Antisabotage protection
 - OLP overload protection
- warranty 2 year from the production date

DESCRIPTION

The PSU is designed for supply of up to 4 webcams requiring stabilized voltage of **24V DC(+/-15%)**. The PSU supplies voltage of **27,6V DC** and total current capacity of **I=4x0,4A+0,2A Battery charging***. In case of mains power loss, the unit will instantly switch to battery operation. There are 4 power supply outputs, independently protected by melting fuses or PTC polymer fuses. Failure (short circuit) in the output circuit will activate the melting fuse or PTC fuse and disconnect the circuit from DC power (+ U). Fuse failure is indicated by switching off the corresponding LEDs: L1 for AUX1, etc. In addition, the FPS output (hi-Z state) and L_{FPS} LED are activated and the relay contacts change their position. The PSU is housed in a metal enclosure with signaling panel equipped with a microswitch indicating door opening (front cover). The power is carried over the spare pairs (4/5 & 7/8), which, according to the Ethernet network standard, are not used for data transmission (data transmission uses 1/2 and 3/6 data pairs)

The PSU can not be used in Gigabit Ethernet networks, where all twisted pairs are involved in the transmission of data!

During normal operation, the total current drawn by the device should not exceed I = 4x0,4A. Maximum battery charging current is 0,2A. Total current of the receivers + battery is max 1,8A*.

^{*} See diagram 1

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| SPECIFICATIONS | |
|---|--|
| | A (EPS - External Power Source) |
| PSU type: | |
| Mains supply: | 176÷264V AC |
| Current consumption: | 0,6A@230VAC max. |
| PSU's power: | 50W max. |
| Efficiency: | 77% |
| Output voltage: | 23V ÷ 27,6V DC – buffer operation |
| | 19V ÷ 27,6V DC – battery operation |
| The adjustment range of the output voltage: | 24÷28V DC |
| Output current t _{AMB} <30°C | 4 x 0,4A + 0,2A battery charging – See diagram 1 |
| Output current t _{AMB} =40°C | 4 x 0,26A + 0,2A battery charging – See diagram 1 |
| Ripple voltage | 150mV p-p max. |
| Battery charging current | 0,2A max. @ 2x7Ah (± 5%) |
| Short-circuit protection SCP | PoE MODULE |
| · | 4 x F 0,5A or 4 x PTC 0,5A (jumper selectable) |
| | PSU MODULE |
| | 105% ÷ 150% of PSU power, electronic current limiting |
| Overload protection OLP | 105% ÷ 150% of PSU power, electronic current limiting |
| Battery circuit protection SCP and reverse | melting fuse |
| polarity connection | |
| Surge protection | 4 x varistor |
| 0 " ' ' 0 ' ' | U>115% ÷ 150% of the output voltage - disconnection of the output |
| Overvoltage protection OVP: | voltage, automatic return |
| Deep discharge battery protection UVP: | U<19V (± 5%) – disconnecting the battery terminal |
| Antisabotage protection: | - microswitch, NC contacts (enclosure closed), |
| - TAMPER output indicating enclosure | 0,5A@50V DC (max.) |
| opening | 0,5A@50V DC (max.) |
| Technical outputs: | |
| - FPS technical output indicating output | - OC type, 50mA max. |
| fuse activation | Normal operation: L state (0V), |
| | failure: H state (hi-Z), (automatic return once the normal operation |
| | is restored) |
| | - relay type: 1A@ 30VDC/50VAC, delay time: approximately 10 |
| | seconds |
| Optical indication of operation: | Yes –LED lights |
| Operating conditions: | 2nd environmental class, -10 °C÷40 °C |
| Enclosure: | DC01 steel plate, 1,0mm, color RAL 9003 |
| Dimensions: | 300 x 407 x 126 mm (WxHxD) |
| Net/gross weight: | 4,32kg / 4,66kg |
| Battery housing: | 2x7Ah/12V (SLA) max. H↑ |
| | 250x165x105mm (WxHxD) max |
| Closing | Cylindrical garage v 2 (at the front) lack assembly possible |
| Closing: | Cylindrical screw x 2 (at the front) lock assembly possible |
| Declarations, warranty | CE, RoHS, 2 year from the production date |
| Notes: | The enclosure has a 15mm distance from the mounting surface so |
| | the cables can be led. |
| | Convection cooling. |
| | Connectors: switch mode power supply: Φ0,63-2,5 (AWG 26-10) |
| | Modul PoE: Ф0,5-2,1 (AWG 24-12) |
| | Ausgänge AUX14: RJ45 4pin |
| | Ausgang TAMPER: Φ0,8 |

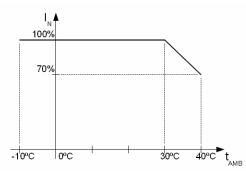


Diagram 1. Maximum permissible output current depending on ambient temperature.