

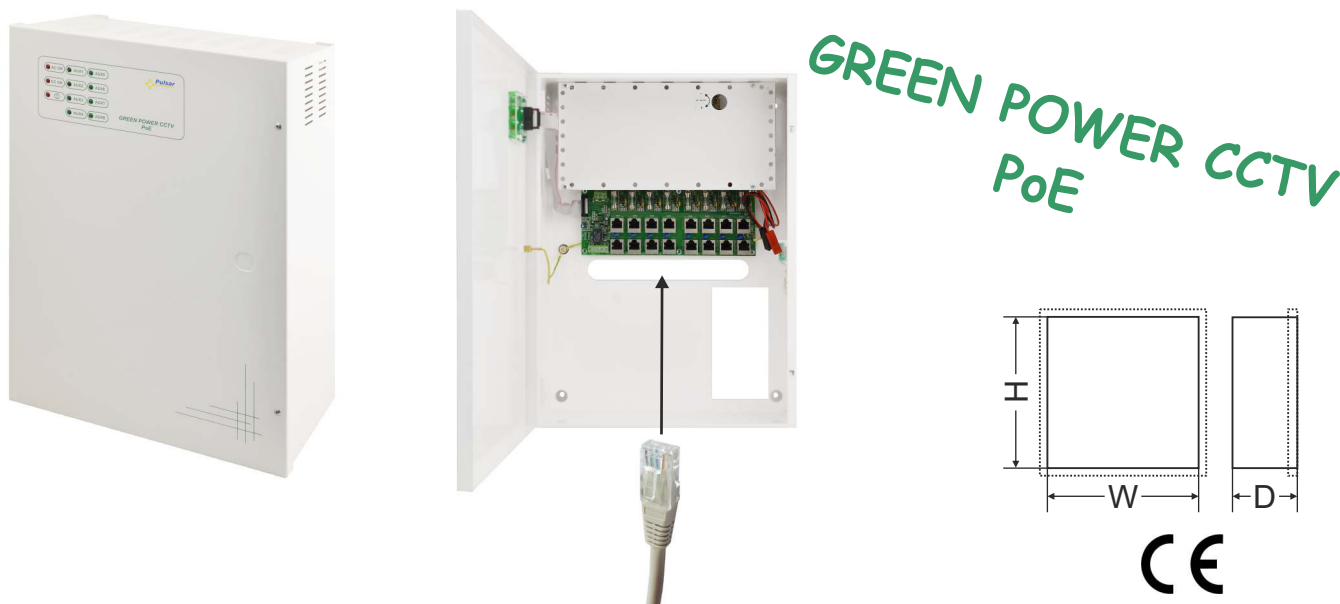
# POE series power supply unit

## PoE buffer power supply 54V DC for up to 8 IP camera



EN\*

CODE: **POE084824B** v.1.1/VI  
TYPE: **PoE 54V/8x0,3A/4x7Ah PoE buffer power supply for up to 8 IP camera.**



### PSU features:

- DC 54V uninterruptible power supply to 8 cameras IP
- battery housing: 4x7Ah/12V
- Wide range of AC supply voltage: 176÷264V
- High efficiency: 86%
- battery charging and maintenance control
- deep discharge battery protection (UVP)
- jumper selectable battery charge current 0,5A/1A
- battery output protection against short circuit and reverse connection
- designed for 10Mbit/s and 100Mbit/s network
- Voltage control at the AUX1 ÷ AUX8 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
- Mounting plate for mounting the network switch - Ethernet Switch / Hub
- warranty – 2 year from the production date

### DESCRIPTION

The PSU is designed for supply of up to 8 webcams requiring stabilized voltage of **48V DC(+/-15%)**. The PSU supplies voltage of **54V DC** and total current capacity of:

1. Output current **8x0,3A + 0,5A battery charge\***
  2. Output current **8x0,2A + 1A battery charge\***
- Total device current + battery: 2,8A max\*.**

In case of mains power loss, the unit will instantly switch to battery operation. There are eight 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<sub>FPS</sub> 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!**

\* See diagram 1

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| SPECIFICATIONS   |   |
|--|---|
| PSU type:  | A (EPS - External Power Source)   |
| Mains supply:  | 176÷264V AC   |
| Current consumption:   | 1,5A@230V AC type   |
| PSU's power:   | 155W max.   |
| Efficiency:  | 86%   |
| Output voltage:  | 44V÷ 54V DC – buffer operation<br>38V÷ 54V DC – battery operation   |
| The adjustment range of the output voltage:                                    | 48÷56V DC   |
| <b>Output current <math>t_{AMB}&lt;30^{\circ}C</math></b>                      | <b>8x0,3A – See diagram 1</b>   |
| <b>Output current <math>t_{AMB}=40^{\circ}C</math></b>                         | <b>8x0,21A – See diagram 1</b>  |
| Ripple voltage   | 150mV p-p max.  |
| Current consumption by the PSU   | 0,1A  |
| Battery charging current   | 0,5A /1A - jumper selectable  |
| Short-circuit protection SCP   | PoE MODULE<br>8 x F 0,5A or 8 x PTC 0,5A (jumper selectable)<br>PSU MODULE<br>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 polarity connection                 | polymer fuse  |
| Surge protection   | 8 x varistor  |
| Overvoltage protection OVP:  | $U>115\% \div 150\%$ of the output voltage - disconnection of the output voltage, automatic return  |
| Deep discharge battery protection UVP:   | $U<38V (\pm 5\%)$ – disconnecting the battery terminal  |
| Antisabotage protection:<br>- TAMPER output indicating enclosure opening       | - microswitch, NC contacts (enclosure closed),<br>0,5A@50V DC (max.)  |
| Technical outputs:<br>- FPS technical output indicating output fuse activation | - OC type, 50mA max.<br>Normal operation: L state (0V),<br>failure: H state (hi-Z), (automatic return once the normal operation is restored)<br>- relay type: 1A@ 30VDC/50VAC, delay time: approximately 10 seconds   |
| Optical indication of operation:   | Yes –LED lights   |
| Operating conditions:  | 2nd environmental class, $-10^{\circ}C+40^{\circ}C$   |
| Enclosure:   | DC01 steel plate, 1,0mm, color RAL 9003   |
| Dimensions:  | 300 x 407 x 126 mm (WxHxD)  |
| Net/gross weight:  | 5,1kg / 5,4kg   |
| Battery housing:   | 4x7Ah/12V (SLA) max.<br>250x165x105mm (WxHxD) max   |
| Closing:   | Cylindrical screw x 2 (at the front) lock assembly possible   |
| Declarations, warranty   | CE, 2 year from the production date   |
| Notes:   | The enclosure has a 15mm distance from the mounting surface so the cables can be led.<br>Convection cooling.<br>Connectors: switch mode power supply: $\Phi 0,4-2,5$ (AWG 26-10)<br>PoE module: $\Phi 0,5-2,1$ (AWG 24-12)<br>Inputs: IN1÷IN8: RJ45 8P8C, shielded<br>AUX1÷AUX8 outputs: RJ45 8P8C, shielded<br>TAMPER output: $\Phi 0,8$ |

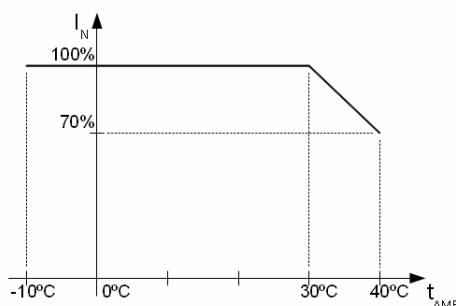


Diagram 1. Maximum permissible output current depending on ambient temperature.