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



EN**

CODE: **POE042455B** v.1.0/VI

TYPE: PoE 27,6V/4x1A/2x7Ah PoE buffer power supply.



PSU features:

- DC 27,6V/4x1A uninterruptible power supply*
- battery housing: 2x7Ah/12V
- Wide range of AC supply voltage: 176÷264V
- High efficiency: 83%
- battery charging and maintenance control
- deep discharge battery protection UVP (UVP)
- battery charging current: 0,5/2A, jumper selectable
- 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:

1. Output current 4x1A + 0,5A battery charging

2. Output current 4x0,87A + 2A battery charging Total current of the receivers + battery is max. 5,5A*.

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!

^{*} See diagram 1

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SPECIFICATIONS	I. (
PSU type:	A (EPS - External Power Source)
Mains supply:	176÷264V AC
Current consumption:	1,4A@230VAC max.
PSU's power:	155W max.
Efficiency:	83%
Output voltage:	23V÷ 27,6V DC – buffer operation
T	19V÷ 27,6V DC – battery operation
The adjustment range of the output voltage:	24÷28V DC
Output current t _{AMB} <30°C	4 x 1A + 0,5A battery charging – See diagram 1
Output august 4 =40°C	4 x 0,87A + 2A battery charging – See diagram 1 4 x 0,85A + 0,5A battery charging – See diagram 1
Output current t _{AMB} =40°C	4 x 0,65A + 0,5A battery charging – See diagram 1
Pinnle veltage	150mV p-p max.
Ripple voltage	
Battery charging current Short-circuit protection SCP	0,5A/2A max. @ 2x7Ah (± 5%) I _{BAT} jumper selectable PoE MODULE
Short-circuit protection SCP	4 x F 1A or 4 x PTC 1,1A (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	Thousing 1000
Surge protection	4 x varistor
-	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:	
- TAMPER output indicating enclosure	- microswitch, NC contacts (enclosure closed),
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
Optical indication of operation:	seconds Yes – LED lights
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Operating conditions: Enclosure:	2nd environmental class, -10 °C÷40 °C
Dimensions:	DC01 steel plate, 1,0mm, color RAL 9003 300 x 407 x 126 mm (WxHxD)
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Net/gross weight: Battery housing:	4,57kg / 4,97kg
Battery nousing:	2x7Ah/12V (SLA) max.
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: Φ0,4-2,5 (AWG 26-10)
	PoE module: Φ0,5-2,1 (AWG 24-12)
	Inputs: IN1÷IN4: RJ45 8P8C, shielded
	AUX1÷AUX4 outputs: RJ45 8P8C, shielded
	TAMPER output: Φ0,8

