

# PSUPS series power supply unit

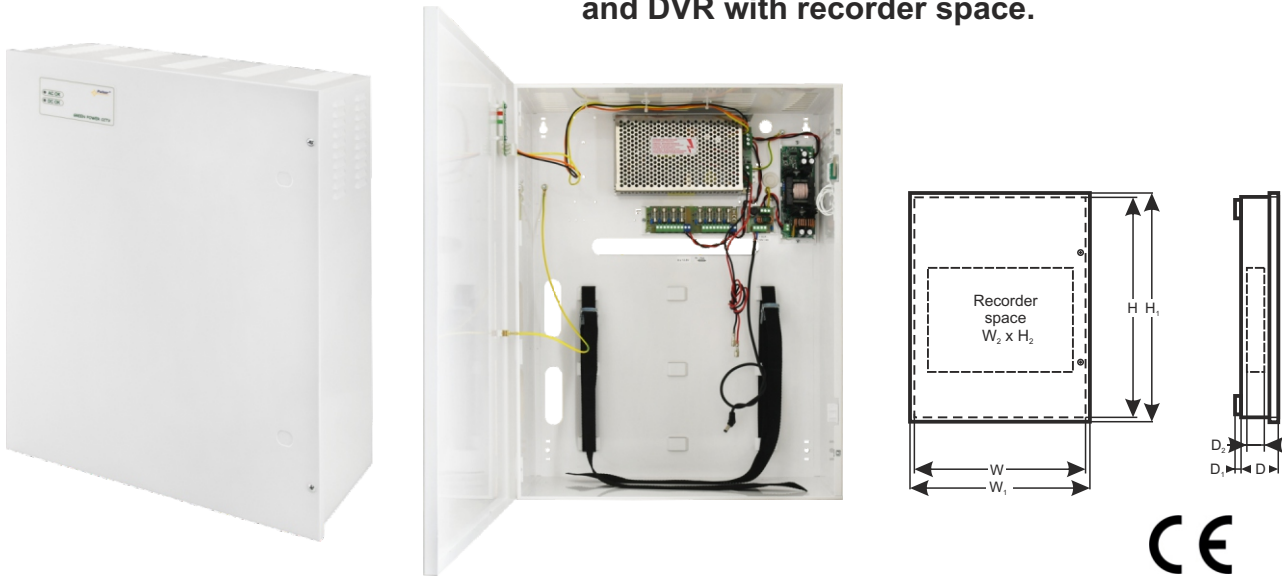
Buffer power supply for up to 8 HD cameras and DVR with recorder space



CODE: **PSUPS 10A12CR** v.1.2/IV

EN\*\*

TYPE: **PSUPS 13,8V/12V/10A/17Ah** Buffer power supply for up to 8 HD cameras and DVR with recorder space.



## Features:

- DC 13,8 V uninterruptible power supply of HD cameras
- DC 12 V uninterruptible power supply of the recorder
- fitting battery 17Ah/12 V
- recorder space 380x320x65
- wide range of mains supply ~200-240 V
- high efficiency 80%
- 8 outputs protected by 1A glass fuses for powering cameras
- 12 V/4 A output dedicated to supply the recorder
- battery charge and maintenance control
- battery output protection against short circuit and reverse polarity connection
- battery charging current 1 A
- approximate backup time: 1h 30min
- deep discharge battery protection (UVP)
- LED indication
- **the enclosure construction is compliant with the requirements of the General Data Protection Regulation GDPR (the possibility of installing two locks with different codes)**
- protections:
  - SCP short-circuit protection
  - OLP overload protection
  - OVP over voltage protection
  - OHP overheat protection
  - surge protection
  - against sabotage
- warranty – 2 years from the production date

## DESCRIPTION

A buffer PSU is intended for an uninterrupted supply to CCTV system devices requiring stabilized voltage of **12 V DC (+/-15%)**. The PSU has two circuits: first **1x4 A / 12 V DC** for supplying the recorder and **8x0,75 A/13,8 V DC** for both cameras. Current efficiency of the PSU amounts to:

**Output current 8x0,75 A + 4 A recorder + 1 A battery charging \***

**Total current of the receivers + battery 11 A\* max.**

In case of a mains power loss 230 V a battery back-up is activated immediately.

The approximate backup time is given assuming that all output ports are used (using typical devices and 17Ah batteries). The electricity consumption for own needs and the energy efficiency of the power intake track were taken into account. The exact description of how to perform the calculations can be found at: ["Approximate backup time - assumptions for calculations"](#).

The power supply unit is placed in a metal enclosure (color RAL 9003) with space for 17Ah / 12 V batteries and a recorder. **The enclosure construction is compliant with the requirements of the General Data Protection Regulation GDPR (the possibility of installing two locks with different codes)**. The enclosure is equipped with a micro-switch indicating unwanted opening of the door (faceplate).

\* See chart 1

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SPECIFICATIONS	
PSU type	A (EPS - External Power Source)
Mains supply	~200-240 V; 50Hz
Current consumption	1,3 A
PSU's power	150 W
Efficiency	80%
Output voltage – strips fuse base 8x	11 V ÷ 13,8 V DC – buffer operation 9,5 V ÷ 13,8 V DC – battery-assisted operation
Output voltage – recorder	<b>12 V DC</b> maintained regardless of the state of battery charge
Output current $t_{AMB} < 30^{\circ}\text{C}$	<b>8x0,75 A + 4 A recorder + 1A battery charging*</b> <b>Total current of the receivers + battery 11 A* max.</b> <b>* see chart 1</b>
Output current $t_{AMB} = 40^{\circ}\text{C}$	<b>8x0,35 A + 4 A recorder + 1A battery charging*</b> <b>Total current of the receivers + battery 7,7 A* max.</b> <b>* see chart 1</b>
Output voltage adjustment range	12-14 V DC
Ripple voltage	120mV p-p max.
PSU current consumption	0,25 A
Battery charging current	1A
Approximate backup time	1h 30min
Short-circuit protection SCP - circuit of cameras	STRIP LB8: 8x F 1 A glass fuse, Output filter 1x F 5 A
Overload protection OLP	105% ÷ 150% of the PSU power, automatic recovery
Short-circuit protection SCP - circuit of recorder	F5 A melting fuse in the filter
Battery circuit protection SCP and reverse polarity connection	glass fuse 15 A
Surge protection	varistors
Over voltage protection OVP	>16 V (automatic recovery)
Deep discharge protection UVP	U < 9,5 V (± 5%) – disconnection of battery terminal
Sabotage protection: - TAMPER output indicating enclosure opening	- micro-switches, NC contacts (enclosure closed), 0,5 A@50 V DC (max.)
Optical indication: front panel of the PSU - AC OK.; LED indicating the AC power status - DC OK.; LED indicating the DC supply at the PSU output	- red, normal status – on, failure: off - green, normal status – on, failure: off
Operating conditions	2nd environmental class, -10°C ÷ +40°C
Enclosure	Steel plate DC01 1,0mm, RAL 9003
Dimensions	W=420, H=535, D+D <sub>1</sub> =193+14 [+/- 2mm] W <sub>1</sub> =425, H <sub>1</sub> =540 [+/- 2mm]
The dimensions of the recorder compartment	W <sub>2</sub> =380, H <sub>2</sub> =320, D <sub>2</sub> =65 [+/- 2mm]
The dimensions of the battery compartment	180 x 170 x 80 mm (WxHxD) max
Net/gross weight	8,33 / 9,06 kg
Closing	Cheese head screw x 2 (at the front) <b>The possibility of installing two locks with different codes.</b>
Deklarations, warranty	CE, 2 year from the production date
Notes	The enclosure does not adjoin the assembly surface so that cables can be led. Forced cooling - built-in fan.

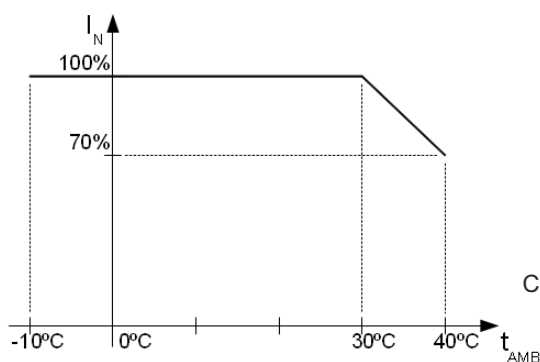


Chart 1. Acceptable output current from the PSU depending on ambient temperature.