

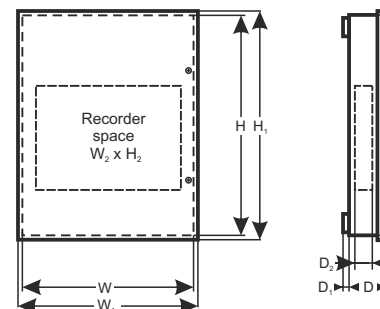
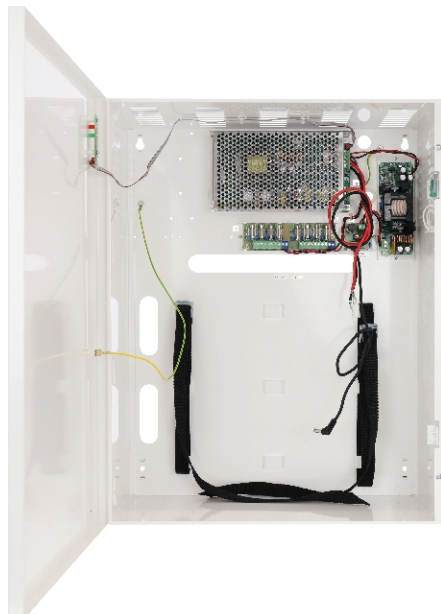
# PSUPS series power supply unit

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



CODE: **PSUPS 10A12CR** v.1.3/V  
NAME: **PSUPS 13,8V/12V/10A/17Ah Buffer power supply for up to 8 HD cameras and DVR with recorder space.**

EN\*\*



## 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 **4 A/12 V DC** for supplying the recorder and **5 A/13,8 V DC** for both cameras. Current efficiency of the PSU amounts to:

**Output current 5 A + 4 A recorder + 1 A battery charging**

**Total current of the receivers + battery 10 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).

<b>TECHNICAL DATA</b>	
Mains supply	~200-240 V; 50Hz
Current consumption	1,3 A
PSU's power	138 W
Efficiency	80%
Output voltage – fuse base for fuse strips 8x	11 - 13,8 V DC – buffer operation 9,5 - 13,8 V DC – battery-assisted operation
Output voltage – recorder	<b>12 V DC</b> maintained regardless of the state of battery charge
<b>Output current</b>	<b>5 A + 4 A</b> recorder + 1 A battery charging <b>Total current of the receivers + battery 10 A max.</b>
Output voltage adjustment range	12-14V 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 1xF 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 10 A
Surge protection	varistors
Over voltage protection OVP	>19 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 AC power status - DC OK.; LED indicating DC supply at PSU output	- red, normal status: permanently illuminated, failure: off - green, normal status: permanently illuminated, failure: off
Operating conditions	Temperature: -10°C ÷ +40°C relative humidity 20%...90%, without condensation
Dimensions	W=420, H=535, D+D <sub>1</sub> =193+14 [+/- 2mm] W <sub>1</sub> =425, H <sub>1</sub> =540 [+/- 2mm]
Space for battery	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]
Enclosure	Steel plate DC01 1,0mm, colour RAL 9003
Closing	Cheese head screw x 2 (at the front) <b>The possibility of installing two locks with different codes.</b>
Connectors	Mains supply: Φ0,63-2,50 (AWG 22-10) Outputs for cameras: Φ0,63-2,50 (AWG 22-10) Recorder outputs: power cord 55cm, terminated with the DC 5,5/2,1 plug Battery outputs: Φ6/2,5mm <sup>2</sup> TAMPER output: wires
Declarations, warranty	CE, 2 years from production date
Notes	The enclosure does not adjoin the assembly surface so that cables can be led. Forced cooling - built-in fan.