

PSUPS series power supply unit

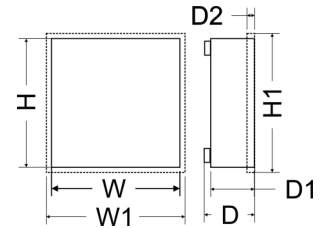
Buffer power supply for up to 16 cameras and DVR + recorder space



CODE: **PSUPS 20A12CR** v.1.0/1

EN**

TYPE: **PSUPS 13,8V/12V/20A/2x17Ah Buffer power supply for up to 16 cameras and DVR + recorder space.**



Features:

- DC 13,8V uninterruptible power supply of cameras
- DC 12V uninterruptible power supply of the recorder
- fitting battery 2x17Ah/12V
- recorder space
- wide range of mains supply AC 176÷264V
- built-in power factor correction system (PFC)
- high efficiency 85%
- 16 outputs protected by 1A glass fuses for powering analog cameras
- 12V/5A output dedicated to supply the recorder
- battery charge and maintenance control
- deep discharge battery protection (UVP)
- battery charging current 2A/4A/8A jumper selectable
- battery output protection against short circuit and reverse polarity connection
- LED indication
- 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 **12V DC (+/-15%)**. The PSU has two circuits: first **1x5A/12VDC** for supplying the recorder and **16x0,8A/13,8V DC** for both cameras. Current efficiency of the PSU amounts to:

1. **Output current 16x0,8A + 5A recorder + 2A battery charging ***
 2. **Output current 16x0,7A + 5A recorder + 4A battery charging ***
 3. **Output current 16x0,4A + 5A recorder + 8A battery charging ***
- Total current of the receivers + battery 20A* max.**

In case of a mains power loss 230V a battery back-up is activated immediately. The power supply unit is placed in a metal enclosure (color RAL 9003) with space for 2x17Ah / 12V batteries and a recorder. 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	176÷264V AC / 50Hz
Current consumption	1,5A @230V AC
PSU's power	300W
Efficiency	85%
Output voltage – strips fuse base 16x	11V ÷ 13,8V DC – buffer operation 9,5V ÷ 13,8V DC – battery-assisted operation
Output voltage – recorder	11V ÷ 12V DC – buffer operation 9,5V ÷ 12V DC – battery-assisted operation
Output current $t_{AMB}<30^{\circ}\text{C}$	16x0,8A + 5A recorder + 2A battery charging* 16x0,7A + 5A recorder + 4A battery charging* 16x0,4A + 5A recorder + 8A battery charging* Total current of the receivers + battery 20A* max. * see chart 1
Output current $t_{AMB}=40^{\circ}\text{C}$	16x0,4A + 5A recorder + 2A battery charging* Total current of the receivers + battery 14A*max. * see chart 1
Output voltage adjustment range	12÷14VDC
Ripple voltage	120mV p-p max.
PSU current consumption	230mA
Battery charging current	2A, 4A,8A jumper selectable
Short-circuit protection SCP	2x STRIP LB8: 16x F 1A glass fuse, STRIP LB1: 1x F 5A
Overload protection OLP	105% ÷ 150% of the PSU power, automatic recovery
Battery circuit protection SCP and reverse polarity connection	glass fuse 30A
Surge protection	varistors
Over voltage protection OVP	>16V (activation requires disconnecting the load or supply for about 20 s.)
Deep discharge protection UVP	$U < 9,5V (\pm 5\%)$ – disconnection of battery terminal
Sabotage protection: - TAMPER output indicating enclosure opening	- micro-switches, NC contacts (enclosure closed), 0,5A@50V DC (max.)
Optical indication: front panel of the PSU - AC OK.; LED indicating the AC power status - AUX 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, $-10^{\circ}\text{C} \div +40^{\circ}\text{C}$
Enclosure	Steel plate DC01 1,0mm, RAL 9003
Dimensions	413 x 535 x 180+8 [mm] (WxHxD)
Net/gross weight	9,7/10,4 kg
Fitting battery	2x17Ah/12V (SLA) max. 380x340x175mm (WxHxD) max
Closing	Cheese head screw x 2 (at the front). lock assembly possible
Deklarations, warranty	CE, RoHS, 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.

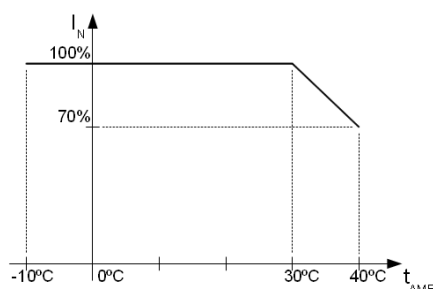


Chart 1. Acceptable output current from the PSU depending on ambient temperature.