

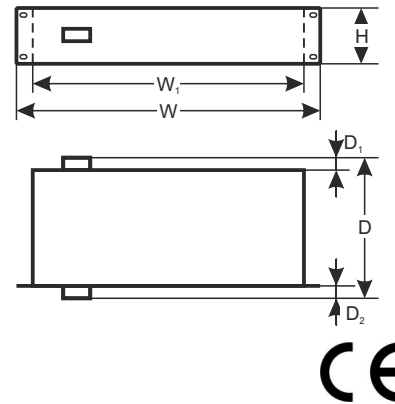
RACK POWER series power supply unit

RACK mounted buffer power supply 13,8V DC for up to 8 HD cameras



EN*

CODE: **RUPS812T** v.1.0/III
TYPE: **RUPS 13,8V/8x1A/TOPIC RACK** mounted buffer power supply
for up to 8 HD cameras.



Features:

- DC 13,8V/8x1A uninterruptible power supply for powering HD cameras ($\Sigma I=8A$ max.)
- 8 outputs independently protected by 1A melting fuses
- wide range of mains supply AC: 176÷264V AC
- high efficiency 85%
- battery charging and maintenance control
- excessive discharging (UVP) protection
- battery output protection against short circuit and reverse connection
- control of voltage presence at the AUX1 ÷ AUX8 outputs
- battery charge current: 1A (batteries 1x7Ah / 1x17Ah / 1x28Ah)
- Approximate backup time: 5h
- acoustic indication of failure
- LED optical indication: AC, DC, TEMP, LoB, ALARM, AUX1 ÷ AUX8
- the ALARM technical output of collective failure –relay type, activated by:
 - 230V AC power loss
 - low voltage of the PSU (<11,5V)
 - activation of the output fuse in the camera power supply circuit
 - too high temperature of the PSU (>70°C)
 - the PSU failure
- protections:
 - SCP short-circuit protection
 - OVP overvoltage protection
 - overvoltage protection
 - overload protection OLP
- forced cooling (fan)
- warranty – 2 year from the production date

DESCRIPTION

The **RUPS812T** buffer power supply unit is designed for uninterrupted power supply of up to 8 HD cameras requiring stabilized voltage of **12V DC (+/- 15%)**. The PSU provides voltage of **U=13,8V DC**. Current efficiency:

Output current 8A + 1A battery charge.
Total device current + battery: 9A max.

In case of power decay, a battery back-up is activated immediately.

The approximate backup time is given assuming that all output ports are used (using typical devices and 28Ah 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 PSU is fitted with 8 outputs protected independently with melting fuse 1A. The power supply is fitted with the ALARM output of collective failure. In case of failure, relay contacts are switched automatically, which is accompanied by acoustic and optical indication (the corresponding led goes on). The power supply construction is based on the switch mode PSU with high energy efficiency and is located in an enclosure adapted for mounting in standard **RACK 19"** cabinets.

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SPECIFICATIONS	
PSU type:	A (EPS - External Power Source)
Mains supply:	176÷264V AC; 50÷60Hz
Current up to:	1,1A@230V AC max.
Supply power:	124W max.
Efficiency:	85%
Output voltage:	11V ÷ 13,8V DC – buffer operation 9,5V ÷ 13,8V DC – battery-assisted operation
Output current	8 x 1A + 1A battery charge
Ripple:	120 mV p-p max.
Battery charge current: 1A (batteries 1x7Ah / 1x17Ah / 1x28Ah)	1A max. (+/-5%)
Approximate backup time	5h
Short-circuit protection SCP	8 x F 1A melting fuse
Overload protection OLP Current consumption by PSU systems	105% ÷ 150% of the PSU power, automatic return 0,22A
Overvoltage protection OVP	>16V (automatic recovery)
Battery circuit protection SCP and reverse polarity connection	polymer fuse PTC
Surge protection	varistors
Excessive discharge protection UVP	U<9,5V (+/-5%) – disconnect of connection battery
The ALARM technical output of collective failure	Relay type: 1A@ 30V DC / 50V AC
Optical indication of operation:	LED: AC, DC, TEMP, ALARM, AUX1÷AUX8
Acoustic operation indication:	Piezoelectric indicator ~75dB/0,3m
Operating conditions:	2nd environmental class, -10°C ÷ +45°C
Enclosure:	Steel plate RAL 9005, black
Mounting dimensions	W=19", H=2U, D=262
Dimensions:	W=482, W ₁ =442, H=88, D=262, D ₁ =5, D ₂ =32 [+/- 2mm]
Net weight:	5,30kg / 5,70kg
Fixation	four-point butt mounting to RACK profiles – the set include 4 M6 screws + cage nuts
Declarations, warranty	CE, 2 year from the production date
Notes:	Forced cooling (fan). 230V AC input: the IEC C14 socket with a fuse, power cable 1,5m (included) Outputs: ALARM, AUX1÷AUX8: Φ 0,5-2,1 (AWG 24-12) 0,5-2mm ²