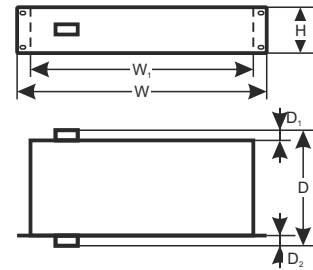


CODE: RSUPS108 v.1.1/II
**TYPE: RSUPS108 10-ports switch with buffer power supply for 8 IP cameras,
RACK mounted.**



Features:

- Uninterruptible power supply of 8 IP cameras (52 V DC)
- Switch 10 ports:
8 PoE ports 10/100Mb/s, (1+8 ports) (data transfer and power supply)
2 10/100Mb/s ports (UpLink)
- 30 W for each PoE port, supports devices compliant with the IEEE802.3af/at (**PoE+**) standard
- Supports auto-learning and auto-aging of MAC addresses (1K size)
- wide range of mains supply AC: 176+264 V AC
- battery charging and maintenance control
- excessive discharging (UVP) protection
- battery output protection against short circuit and reverse connection
- battery charge current: 0,5 A (batteries 2x7 Ah / 2x17 Ah)
- Approximate backup time: 5h 30min
- acoustic indication of failure
- LED optical indication: AC, DC, TEMP, LoB, ALARM
- the ALARM technical output of collective failure – relay type, activated by:
 - 230 V AC power loss
 - low voltage of the PSU (<23 V)
 - too high temperature of the PSU (>70°C)
 - the PSU failure
- protections:
 - SCP short-circuit protection
 - overvoltage protection
 - overload protection OLP
- forced cooling (fan)
- warranty – 2 year from the production date

DESCRIPTION

The RSUPS108 is a complete solution for power supply and battery backup of 8 IP cameras (52 V DC power supply) in **RACK** 19" standard.

The main elements of this system include:

- 10 ports PoE switch
- buffer power supply 27,6 V unit which can accommodate two 12 V batteries
- a converter (DC/DC52230) increasing the voltage to 52 V DC (supply of the PoE switch)

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

The approximate backup time is given assuming that all output ports are used (using typical devices and 17 Ah 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"](#).

Automatic detection of any devices powered in the PoE/PoE+ standard is enabled at the 1 – 8 ports of the switch. The UPLINK port is used to connect another network device. The LED lights at the front panel indicate the operating status of the device.

The switch is fitted with the ALARM technical output of collective failure. In the case of failure, a LED light is activated, which is accompanied by switching of relay contacts and acoustic indication.

The PoE technology ensures a network connection and reduces installation costs by eliminating the need to supply a separate power cable for each device. This method allows supplying other network devices, such as IP phone, wireless access point or router.

PARAMETERS OF THE SWITCH

Ports	10 10/100Mb/s ports (8 x PoE + 2 x UPLINK) with connection speed auto-negotiation and MDI/MDIX Auto Cross)
PoE power supply	IEEE 802.3af/at (1+8 ports), 52 V DC / 30 W at each port *
Protocols, Standards	IEEE802.3, 802.3u, 802.3x CSMA/CD, TCP/IP
Forwarding rate	10BASE-T: 14880pps/port 100BASE-TX: 148800pps/port
Bandwidth	1,6Gbps
Transmission method	Store-and-Forward
Optical indication of operation	Switch power supply; Link/Act; PoE Status

* The given value of 30 W per port is the maximum value. The total power consumption should not exceed 96 W.

ELECTRICAL PARAMETERS

Mains supply	~230 V; 50 Hz
Current up to	1,1 A
Supply power	110 W
Output voltage at the PoE ports	52 V DC – maintained regardless of the state of battery charge
The output current at the PoE ports	8 x 0,6 A Σ I=2 A (max.)
Battery charge current (batteries 2x7 Ah/ 2x17 Ah, connect batteries in series)	0,5 A max. (+/-5%)
Short-circuit protection SCP and overload protection OLP	105% + 150% of the PSU power, manual restart (failure requires the disconnection of the DC output)
PSU current consumption	200mA/27,6 V
Battery charge current	0,5 A max. (+/-5%)
Approximate backup time	5h 30min
Battery circuit protection SCP and reverse polarity connection	melting fuse
Excessive discharge protection UVP	U<19 V (+/-5%) – disconnect of connection battery
Optical indication of operation	LED: AC, DC, TEMP, LoB, ALARM, LINK, PoE
Acoustic operation indication:	Piezoelectric indicator ~75dB/0,3m
The ALARM technical output of collective failure	Relay type: 1 A@ 30 V DC/50 V AC
The F_{MAINS} fuse in the 230 V power supply circuit	T 3,15 A

MECHANICAL PARAMETERS

Mounting dimensions	W=19", H=2U, D=307
Dimensions	W=482, W ₁ =442, H=88, D=307, D ₁ =32, D ₂ =10 [+/- 2mm]
Fixation	four-point butt mounting to RACK profiles – the set include 4 M6 screws + cage nuts
Net / gross weight	6,3/ 6,8 kg
Enclosure	Steel plate RAL 9005, black
Connectors	230 V AC input: the IEC C14 socket with a fuse, power cable 1,5m (included) Technical output ALARM : Φ 0,5-2,1 (AWG 24-12) 0,5-1,5mm ² Outputs of cameras PoE : sockets RJ45 8P8C Data output of the UPLINK recorder: RJ45 8P8C jack Battery output BAT : 6,3F-2,5
Notes	Forced cooling (fan).