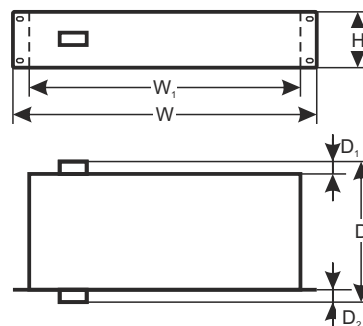


CODE: **RSFUPS108** v.1.2/IV  
TYPE: **RSFUPS108 10-ports switch with buffer power supply for 8 IP cameras,  
RACK mounted.**

EN\*



### Features:

- DC 52V uninterruptible power supply of 8 IP cameras
- Switch 10 ports  
8 PoE 10/100 Mb/s ports, (1+8 ports) (data and power supply)  
2 ports 10/100/1000 Mb/s (ports G1/TP, G2/TP) (UpLink)  
2 ports 10/100/1000 Mb/s SFP (G1/SFP, G2/SFP ports)
- 30 W for each PoE port, supports devices complaint with the IEEE802.3af/at (**PoE+**) standard
- Supports auto-learning and auto-aging of MAC addresses (1K size)
- 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: 5 h 30 min
- 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 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 **RSFUPS108** 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 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"](#).

Automatic detection of any devices powered in the PoE/PoE+ standard is enabled at the 1 – 8 ports of the switch. The G1/TP, G2/TP ports is used for connection of another network device via RJ45 connector. The switch is fitted with SFP slots (marked as G1/SFP and G2/SFP); the use of fiber optic module (GBIC) allows fiber optic transmission. 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**

<b>Ports</b>	8 x PoE (10/100 Mb/s) (RJ-45) 2 x UPLINK (10/100/1000 Mb/s) (RJ-45) 2 x UPLINK (10/100/1000 Mb/s) (SFP) with connection speed auto-negotiation and MDI/MDIX Auto Cross)
<b>PoE power supply</b>	IEEE802.3af/at (1+8 ports), 52 V DC / 30 W at each port *
<b>Protocols, Standards</b>	IEEE802.3, 802.3u, 802.3x CSMA/CD, TCP/IP
<b>Forwarding rate</b>	10BASE-T: 14880 pps/port 100BASE-TX: 148800 pps/port
<b>Bandwidth</b>	1,6 Gbps
<b>Transmission method</b>	Store-and-Forward
<b>Optical indication of operation</b>	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**

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

**MECHANICAL PARAMETERS**

<b>Mounting dimensions</b>	W=19", H=2U, D=368
<b>Dimensions</b>	W=482, W <sub>1</sub> =442, H=88, D=368, D <sub>1</sub> =32, D <sub>2</sub> =10 [+/- 2 mm]
<b>Fixation</b>	four-point butt mounting to RACK profiles – the set include 4 M6 screws + cage nuts
<b>Net / gross weight</b>	7,3 kg / 7,9 kg
<b>Enclosure</b>	Steel plate RAL 9005, black
<b>Connectors</b>	<b>230 V AC</b> input: the IEC C14 socket with a fuse, power cable 1,5 m (included) Technical output <b>ALARM</b> : $\Phi$ 0,5-2,1 (AWG 24-12) 0,5-1,5 mm <sup>2</sup> Outputs of cameras <b>PoE</b> : sockets RJ45 8P8C Data output of the <b>UPLINK</b> recorder: RJ45 8P8C jack Battery output <b>BAT</b> : 6,3F-2,5
<b>Notes</b>	Forced cooling (fan).