

CODE: **ROUPS48V** v.1.0/II
TYPE: **ROUPS 54V/5A RACK mounted buffer power supply.**



Features:

- DC 54V/5A* uninterruptible power supply
- outputs protected by 5A melting fuse
- wide range of mains supply AC: 176÷264V AC
- high efficiency 85%
- built-in power factor correction system (PFC)
- battery charging and maintenance control
- excessive discharging (UVP) protection
- battery output protection against short circuit and reverse connection
- battery charge current: 0,5A (batteries 4×7Ah / 4×17Ah)
- control of voltage presence at the outputs
- acoustic indication of failure
- LED optical indication: AC, DC, TEMP, LoB, ALARM, AUX
- the ALARM technical output of collective failure – relay type, activated by:
 - 230V AC power loss
 - low voltage of the PSU (<46V)
 - activation of the output fuse
 - 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 **ROUPS48V** buffer power supply unit is designed for uninterrupted power supply of requiring stabilized voltage of **48V DC (+/- 15%)**. The PSU provides voltage of **U=54V DC** current efficiency max. **I=4,5A + 0,5A battery charge**. In case of power decay, a battery back-up is activated immediately. The PSU output protected independently with melting fuse 5A. 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.



AUX power supply output can be split into 8 or 16 outputs with the use of RACK fuse modules:
- the RLB8 (RACK 8x2A fuse modules)
- the RLB16 (RACK 16x1 fuse modules)

RACK series power supply unit

RACK mounted buffer power supply



SPECIFICATIONS	
PSU type:	A (EPS - External Power Source)
Mains supply	176÷264V AC 50÷60Hz
Current up to	1,5A@230V AC max.
Supply power	270W max.
Efficiency	85%
Power factor PF	>0,95@230V AC
Output voltage	44V ÷ 54V DC – buffer operation 38V ÷ 54V DC – battery-assisted operation
Output current	4,5A + 0,5A battery charge
Ripple	150 mV p-p max.
Current consumption by PSU systems	150mA
Battery charge current (batteries 4×7Ah / 4×17Ah, connect batteries in series)	0,5A max. (+/-5%)
Short-circuit protection SCP	F 5A, melting fuse
Overload protection OLP	105% ÷ 150% of the PSU power, automatic return
Overvoltage protection OVP	>62V (activation requires disconnecting the load or supply for about 20s.)
Battery circuit protection SCP and reverse polarity connection	glass fuse
Surge protection	varistors
Excessive discharge protection UVP	U<38V (+/-5%) – disconnect of connection battery
The ALARM technical output of collective failure	Relay type: 1A@ 30VDC/50VAC
Optical indication of operation:	LED: AC, DC, TEMP, LoB, ALARM, AUX
Acoustic operation indication:	Piezoelectric indicator ~75dB/0,3m
Operating conditions	2nd environmental class, -10 °C÷ +45°C
Enclosure	Steel plate RAL 9005, black
Enclosure dimensions	W=19", H=2U; 482 x 88 x 223 mm (WxHxD)
Net/gross weight	5,7kg / 6,2kg
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) Technical output: ALARM: Φ 0,5-2,1 (AWG 24-12) 0,2-1,5mm ² Outputs AUX, BAT: Φ 0,5-3,2 (AWG 24-8) 0,5-4mm ²