

CODE: RSG2 v.1.0/I
 NAME: Switch mode buffer power supply in RACK 19" 2U enclosure

EN



Equipment:



2x 2-pin pluggable screw terminal block (pitch 7.62 mm)



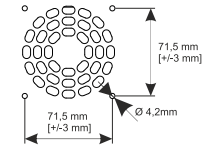
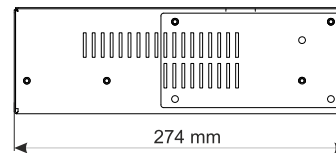
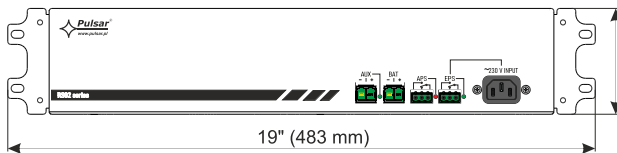
2x 3-pin pluggable screw terminal block (pitch 5.08 mm)



1x right-angle power cord - E/F (Unischuko) to C13 (female)



4x M6



Features:

- supply voltage ~200 – 240 V
- DC 13,8 V or 27,6 V uninterruptible power supply
- available versions with the following current efficiencies:
13,8 V: 10A/20A
27,6 V: 5A/10A
- high efficiency (up to 89%)
- battery charging current jumper selectable
- deep discharge battery protection (UVP)
- **EPS** technical output for power failure - relay
- **APS** technical output indicating battery failure - relay type
- battery test lock jumper
- possibility to mount ARAS...N rails
- LED optical indication
- dynamic battery test
- battery circuit continuity control
- battery voltage control
- battery charging and maintenance control
- battery output protection against short circuit and reverse connection
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - OVP overvoltage protection
 - surge protection
- warranty: 2 years

DESTINATION

RSG2 buffer power supplies are designed for the uninterrupted supply of devices requiring stabilized voltage of 12 V or 24 V DC ($\pm 15\%$).

In the event of a mains power failure, the unit automatically switches to battery operation without interruption. The devices are designed based on high-efficiency switch mode power supply modules housed in metal enclosures (RAL 9005 – black) intended for installation in 19" RACK cabinets. The enclosures are equipped with a microswitch indicating the opening of the cover.

PARAMETERS OF POWER SUPPLIES:

PSU's name	Output voltage	Charging current	Total output current with charging
RSG2-12V10A	13,8 V	1 / 4 A	10 A
RSG2-12V20A		2 / 4 / 8 A	20 A
RSG2-24V5A	27,6 V	1 / 2 A	5 A
RSG2-24V10A		1 / 2 / 4 A	10 A



TECHNICAL DATA	RSG2-12V	RSG2-24V
Supply voltage	~200 – 240 V	
Output voltage	11 – 13,8 V - buffer operation 10 – 13,8 V - battery-assisted operation	22 V – 27,6 V - buffer operation 20 V – 27,6 V - battery-assisted operation
Current consumption by PSU systems during battery-assisted operation	40 – 50 mA	40 mA
Battery capacity (recommended)	7 – 65Ah	7 – 65Ah
Battery circuit protection SCP and reverse polarity connection	- F _{BAT} fuse (in case of a failure, fuse-element replacement required)	
Overload protection (OLP)	105 – 150% of power supply, automatic recovery	
Over voltage protection (OVP)	>19 V (after running, disconnect PSU for about 1 minute)	>37 V (after running, disconnect PSU for about 1 minute)
Deep discharge battery protection (UVP)	U<9,5 V (± 5%) – disconnection of battery circuit	U<19 V (± 5%) – disconnection of battery circuit
Optical indication	- LEDs on the front panel	
Technical outputs: EPS (AC power failure) APS (battery failure)	relay type: 1A@ 30VDC/50VAC	
Operating conditions	Temperature: -10°C – +40°C, Relative humidity 5% – 90%, without condensation	
Protection class EN 62368-1	I (first)	
Degree of protection EN 60529	IP20	
Operating temperature	-10°C...+40°C	
Storage temperature	-20°C...+60°C	
Vibrations and impulse waves during transport	According to PN-83/T-42106	
Enclosure colour	RAL 9005 (black)	
Enclosure dimensions	W=19", H=2U; 481 x 88 x 274 (WxHxD)	
Terminals: Mains supply Outputs Technical outputs	IEC C14 power inlet Φ0,5÷3,2 (AWG 24-8) 0,5-4mm ² Φ0,5-2,1 (AWG 24-12) 0,5-1,5mm ²	
Equipment	1.8 m power cable, set of connectors (2x PC 5/2-2P, 2x 2EDGK-3P), mounting kit (4x M6 screws + cage nuts + plastic washers)	
Declarations, warranty	CE, 2 years	
Notes	Convictional cooling / Forced cooling	

19" RACK buffer power supply system
Power supply units with battery backup 13,8 V DC / 27,6 V DC
RSG2 series

Examples of application:

