



RAKU3 Battery enclosure 4x17Ah for RACK 19" cabinets

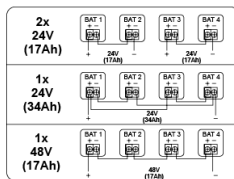
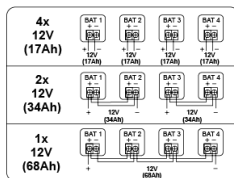


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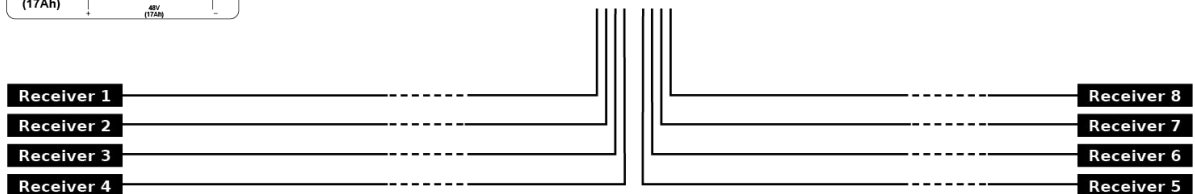
1. Application

The RAKU3 battery enclosure is designed for installation 1÷4 of 7Ah / 17Ah/12V (SLA) batteries inside RACK 19" cabinets. Battery outputs are located at the front panel of the housing.



1÷4 x 17Ah

buffer power
supply units RACK
13.8VDC / 27.6VDC / 54VDC



Receiver e.g.



Camera



Detector



Indicator



Electromagnetic
lock



Electric strike



Intercom



Video intercom

1.1. Specifications.

Table 1. Description of components (See Fig. 1)

Element no. [Fig. 2]	Description
[1]	BAT1 battery output
[2]	BAT2 battery output
[3]	BAT3 battery output
[4]	BAT4 battery output
[5]	A battery compartment for a BAT1 battery
[6]	A battery compartment for a BAT2 battery
[7]	A battery compartment for a BAT3 battery
[8]	A battery compartment for a BAT4 battery
[9]	Battery cables (+ BAT red, -BAT black)
[10]	Mounting brackets (adjustable)

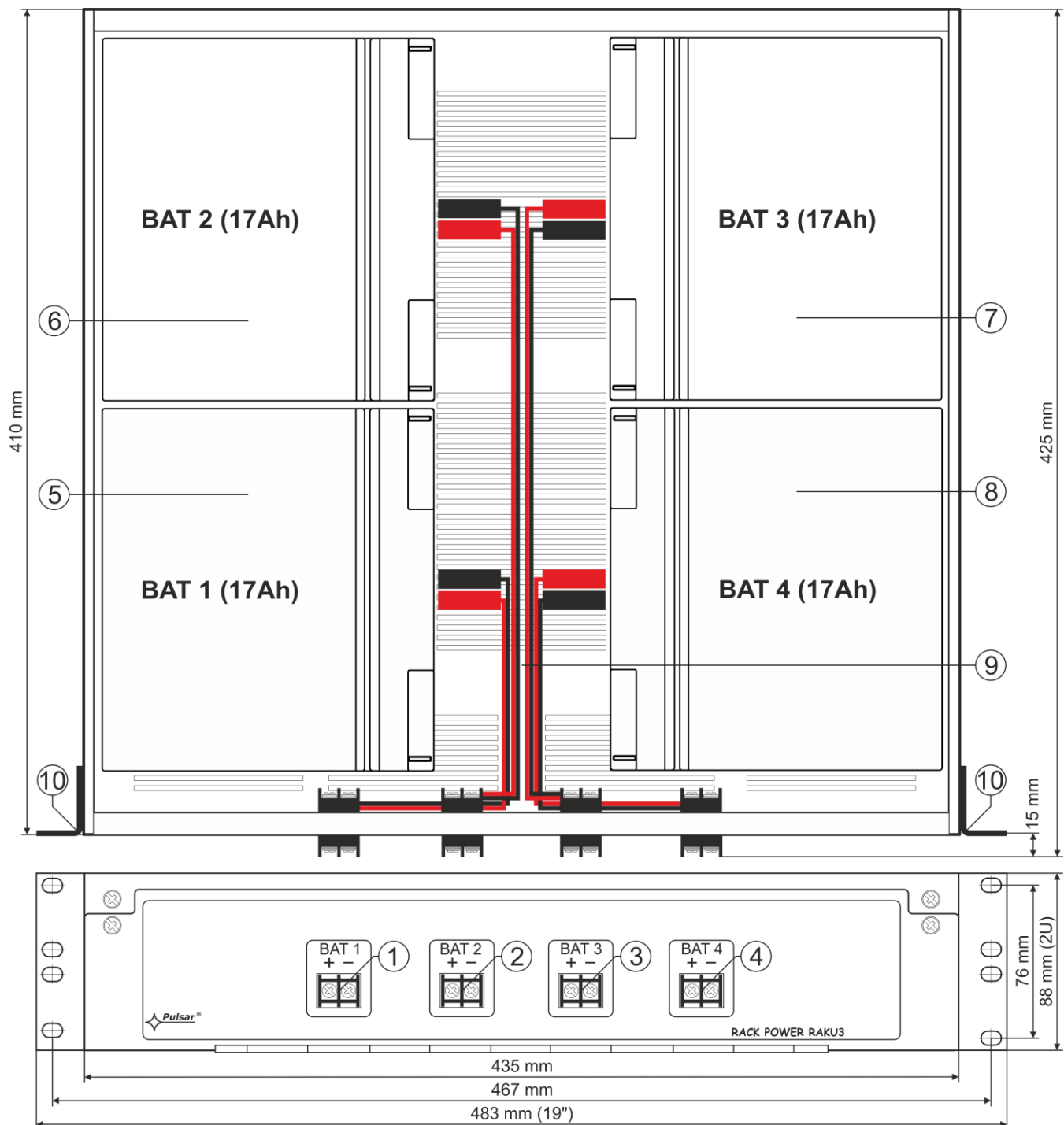


Fig. 1. The view of the enclosure.

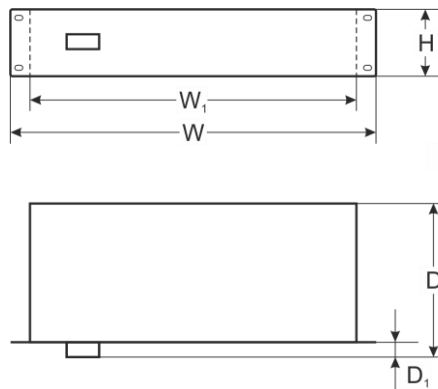


Table 1. Technical parameters.

Battery compartment	4x17Ah/12V (SLA) max.
Output load	20A max.
Output voltage	60V DC max.
Operating conditions	2nd environmental class, -10°C/+40°C, ensure free air flow around the enclosure. Relative humidity 20% ... 90%, no condensation
Mounting dimensions	W=19", H=2U, D=425
Dimensions	W=483, W ₁ =435, H=88, D=425, D ₁ =15 [+/- 2mm]
Enclosure	Steel plate 1,2 mm, color RAL 9005, IP20
Connectors	Battery inputs: 6,3F-2,5 Battery outputs: Ø0,63÷2,50 (AWG 22-10)
Net/gross weight	5,0kg / 5,7kg
Storage temperature	-20°C...+60°C
Notes	- Six-point butt mounting to RACK profiles - The set includes 6 M6 screws + cage nuts + plastic washer
Warranty	2 years from the production date

2. Installation.

2.1. Requirements.

The enclosure should be mounted by a qualified installer, holding relevant (applicable and required for a given country) permits and licenses for low-voltage installations. The device shall be mounted in confined spaces (in accordance with the 2nd environmental class) with normal air humidity (RH=90% max. without condensation) and the temperature from -10°C to +40°C. In order to meet the requirements of LVD and EMC directives, the rules for power supply, enclosures, shielding, and cable routing, depending on application, must be observed.

2.2. Installation procedure.

1. Mount the enclosure inside a RACK 19" cabinet as shown in the figure below:



Fig. 2. Mounting of the controller in a RACK cabinet.



Fig. 3. The battery mounting method.



Fig. 4. Connect to the PSU.

It is possible to adjust the mounting brackets so that the front panel extends beyond the RACK rails. To do this, remove the cover and adjust the handles that are inside the cabinet.

2. Remove screws securing the front panel.



Due to the high weight of batteries, they should be mounted in the front part of the housing. The enclosure cover must be secured with screws.

3. Connect the batteries with the battery wires paying attention to the polarity (+ BAT red, -BAT black) and the numbering of wires.
4. Mount the batteries paying attention to the correct order (See Fig. 1).
5. Close the front panel, screw the locking screws.
6. Make connections between batteries using outputs at the front panel, depending on the application (see Figure 4) and connect them to the uninterruptible power supply with appropriate protection systems and a charging circuit control system.
7. Close the enclosure, cabinet, etc. once the tests and operation control is completed.



Due to the risk of combustible gas generation during charging, the RACK cabinet and the mounting space must be properly ventilated.

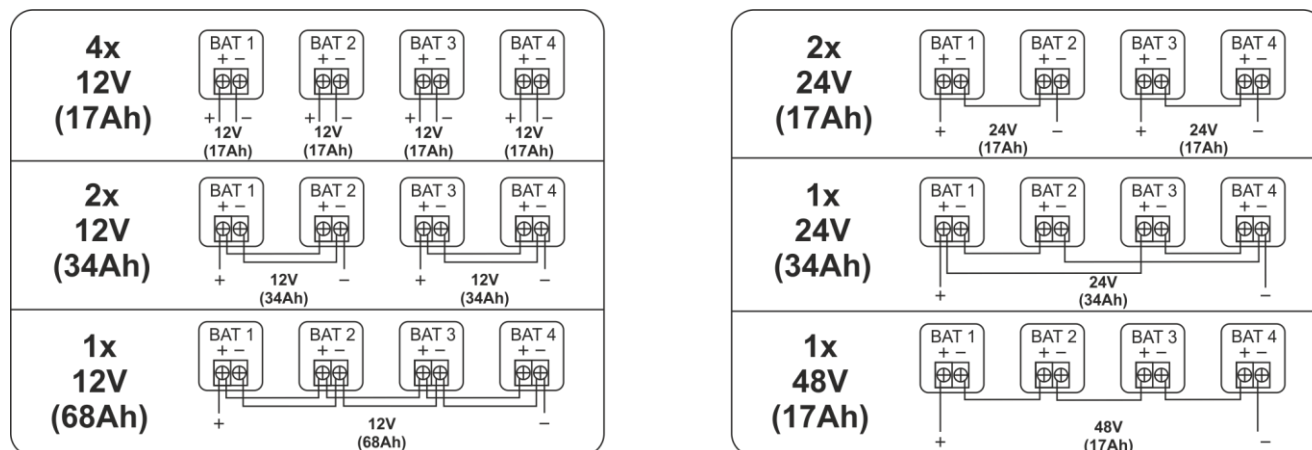


Fig. 5. Methods to connect batteries.

3. Maintenance.

The PSU does not require any specific maintenance; however, it should be cleaned with compressed air if used in dusty conditions.



WEEE LABEL

Waste electrical and electronic equipment must not be disposed of with normal household waste. According to the European Union WEEE Directive, waste electrical and electronic equipment should be disposed of separately from normal household waste.

The power supply unit is adapted for a sealed lead-acid battery (SLA). After the operation period it must not be disposed of but recycled according to the applicable law.

Pulsar

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