

User's Manual

Rack UPS Battery Pack

Important Safety Instructions

This manual contains important safety instructions. Read all safety and operating instructions before operating the uninterruptible power systems (UPS). Adhere to all warnings on the unit and in this manual. Follow all operating and user instructions. This equipment can be operated by individuals without previous training.



WARNING

The battery can present a risk of electrical shock and high short circuit current. Following precautions should be observed before replacing the battery.

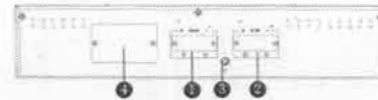
- Wear rubber gloves and boots.
- Remove rings, watches and other metal objects.
- Use tools with insulated handles.
- Do not lay tools or other metal objects on the batteries.
- If the battery is damaged in any way or shows signs of leakage, contact your local representative immediately.
- Do not dispose of batteries in a fire. The batteries may explode.
- Handle, transport and recycle batteries in accordance with local representative.

1. Introduction:

The products are optional for users and used together with rack 1-3K UPS. The appearance for 36V, 72V and 96V models are as follows.



Front Panel



Back Plate

①	Battery Connector #1
②	Battery Connector #2
③	GND
④	Built-in Circuit Breaker (option)

2. Installation:

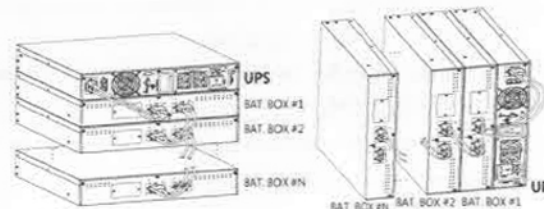
2.1 Unpacking and Inspection

1) Unpack the packaging and check the package contents. The shipping package contains: (1 Battery Pack, 1 user's manual, A pair of ears for rack-mounted, 1 external battery cable)

2) Check the battery pack for the deformation, damage and battery leakage, if any deformation, damage or leakage situation, please do not open the battery pack, contact the carrier or the local agent immediately

2.2 Mechanical Installation

There are two types of installation for reference: installed tower and rack type, depending on the available space and use. For more information please refer to the rack UPS user's manual. Two installation methods are introduced below

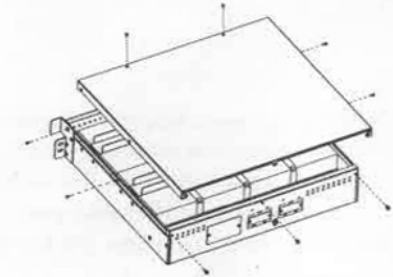


3. Installation and replacement of the batteries

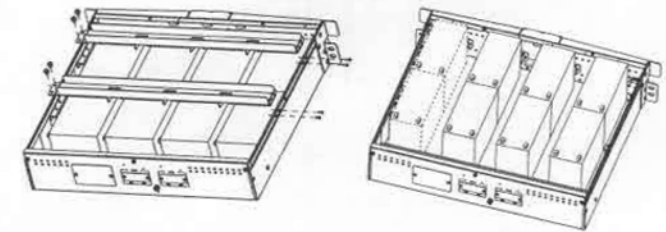
3.1 The battery replacement

If working in a harsh environment or working for a very long time, the batteries may be out of life and go failure, and then the batteries are needed to be replaced. To ensure the stable operation of UPS, here is the detailed method of change: (Empty case no battery models for the first time to install the batteries, please start from step 4)

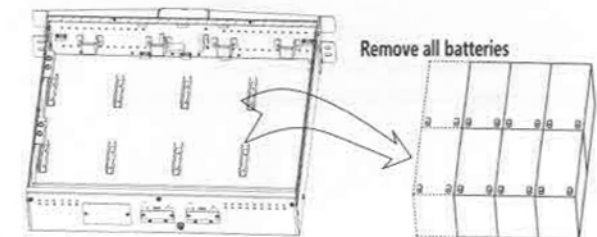
Step 1: Use a screwdriver unscrew all screws on the cover, open the cover, as below



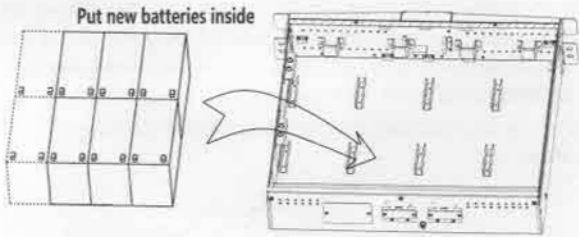
Step 2: Unscrew, dismantle two layering, as shown in the below left, the layering away for assembly



Step 3: Place all batteries erect, then pull out all the connecting cables on batteries, and remove all the old batteries, aside to be processed (for scrap, please refer to Appendix and step 4 for processing), see below;



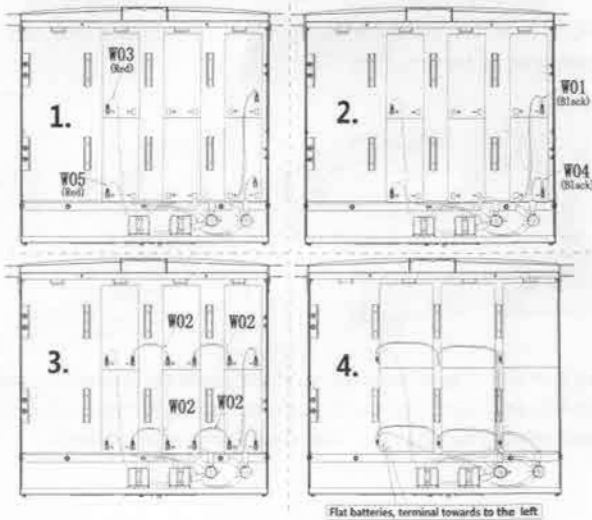
Step 4::Put all of the new batteries into the battery pack, and keep erect (All batteries must be the same model with the same voltage) ,see below



Step 5: Confirm the battery voltage (to know the applicable models, please refer to UPS user's manual), and then according to the below connection (also can put the connection mode of step 3 reduction back):

NOTICE: Sequence of connection for 36V battery pack:

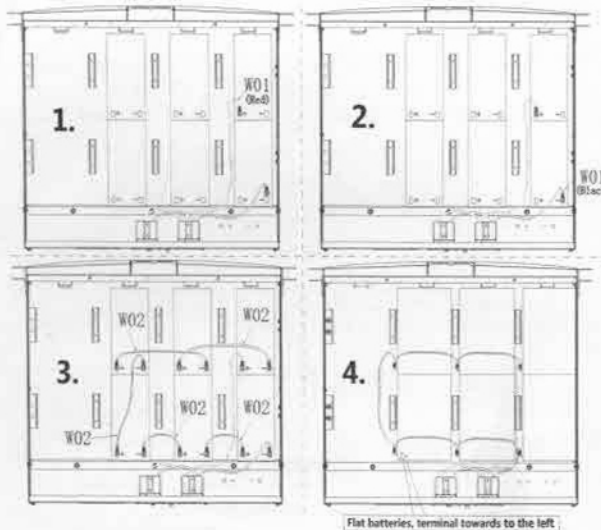
BAT+(Red wire W03&W05)-->BAT-(Black wire W01&W04)-->4pcs W02



36V wiring diagram

Sequence of connection for 72V battery pack:

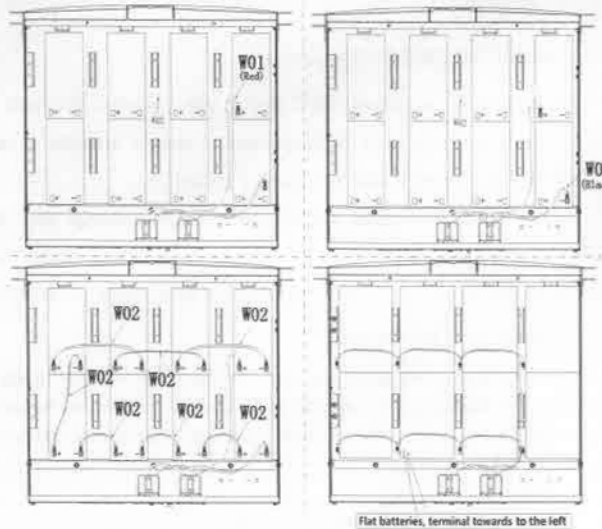
BAT+(Red wire W01)-->BAT-(Black wire W01)-->5pcs W02



72V wiring diagram

Sequence of connection for 96V:

BAT+(Red wire W01)-->BAT-(Black wire W01)-->7pcs W02



96V wiring diagram

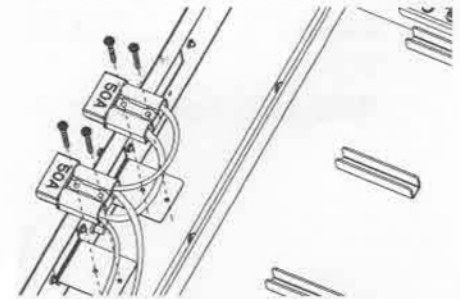
Step 6:After connected cables flat batteries (terminal towards the left) , Refer to the step 2 Locking layering;

NOTICE: The battery terminal don't run into the case, or it will cause the batteries to short circuit

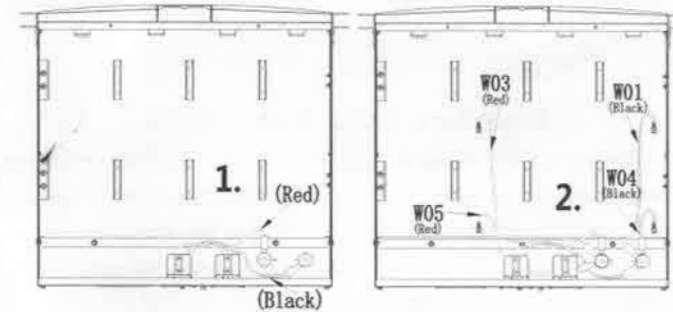
Step 7:Cove lid, Refer to the step 1 , screw all screws on the cover.

Appendix: Installation of the battery terminal

For no battery models, Please Install the battery terminal and wire first, see below.**Notice: Be mind the direction of battery terminal**



For 36V battery pack, you should wiring W01&W04&W03&W05 as below



For 72V and 96V battery pack, you should wiring W01 as below

