

# Battery Box User Manual

## 1 Important Safety Instructions

Please comply with all warnings and operating instructions in this manual strictly. Read the following instructions carefully before installing the unit. Do not operate this unit before reading through all safety information and operating instructions carefully.

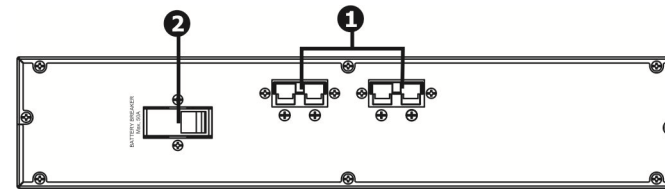
- Do not try to repair the unit yourself, contact your local supplier or your warranty will be void.
- To eliminate any overheating of the battery box, keep all ventilation openings free from obstruction and do not place any foreign objects on top of the battery bank. Keep the battery box 20cm away from the wall.
- Make sure the battery box is installed within the proper environment as specified. (0-40°C and 30-90% non-condensing humidity)
- Do not install the battery box under direct sunlight. Your warranty will be void if the batteries fail due to overheating.
- This battery box is not designed for use in dusty, corrosive and salty environment.
- The warranty for this battery bank will be void if water or other liquid is spilt or poured directly onto the battery box. Similarly we do not warrant any damage to the battery box if foreign objects are deliberately or accidentally inserted into the battery box enclosure.
- The battery will discharge naturally if the system is unused for a period of time.
- It should be recharged every 2-3 months if unused. If this is not done, then the warranty will be null and void. During normal operation, the batteries will be automatically remained in charged condition.
- Servicing of batteries should be performed or supervised by trained personnel with knowledge of batteries and the required precautions.
- When replacing batteries, it is necessary to replace ALL batteries with the same quantity, type & capacity.
- CAUTION – Do not dispose of battery or batteries in a fire. The battery may explode.
- CAUTION – Do not open or mutilate the batteries. The electrolyte from the batteries is toxic and harmful to the skin and eyes.
- CAUTION – Risk of Electric Shock –Hazardous voltage may exist between battery terminals and ground. Test before touching with bare hands.
- CAUTION – A battery can present a risk of electrical shock and high short circuit current. The following precaution should be observed when working on batteries:
  1. Remove watches, rings, or other metal objects.
  2. Use tools with insulated handles.
  3. Wear rubber gloves and boots.
  4. Do not lay tools or metal parts on top of batteries.

5. Disconnect charging source prior to connecting or disconnecting battery terminals.
- Do not plug or unplug the battery connector if UPS works in DC (discharging) mode.

## 2 Product Overview and Setup

**NOTE:** Before installation, please inspect the unit. Be sure that nothing inside the package is damaged. Please keep the original package in a safe place for future use.

### 2.1 Rear Panel View

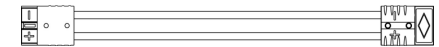


- 1 DC connector: connects to either UPS or a 2<sup>nd</sup> battery box
- 2 DC breaker: Battery over-current protection breaker

### 2.2 Installation and Setup with UPS

#### Unpacking and Inspection

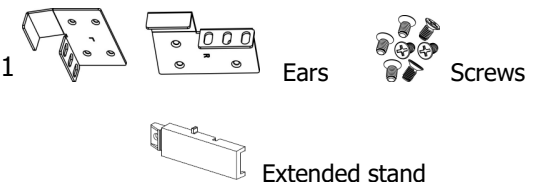
1. Remove the battery box from the packing.  
**Note:** The battery box is very heavy, be cautious when unpacking and lifting the unit to avoid injury.



Battery connection cable

2. Check the inside package

- Battery box unit
- Quick guide
- Battery connection cable x 1
- Ear x 2 & screw x 8
- Extended stand



Extended stand

### Selecting Installation Position

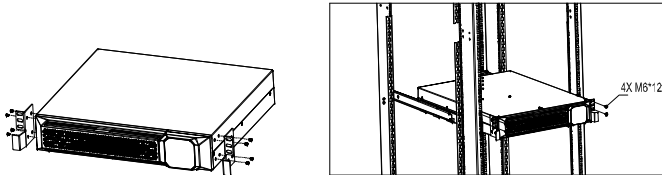
It is necessary to select a proper environment to install the unit in order to minimize the possibility of damage to the battery box and extend the life of the batteries. Please follow the instructions below:

1. Keep at least 20cm (8 inches) clearance from the rear panel of the unit from the wall or other obstructions.
2. Do not block the air-flow to the ventilation openings of the unit.
3. Please ensure the installation site environmental conditions are in accordance with the unit's working specifications to avoid overheat and excessive moisture.
4. Do not place the unit in a dusty or corrosive environment or near any flammable objects.
5. This unit is not designed for outdoor use.

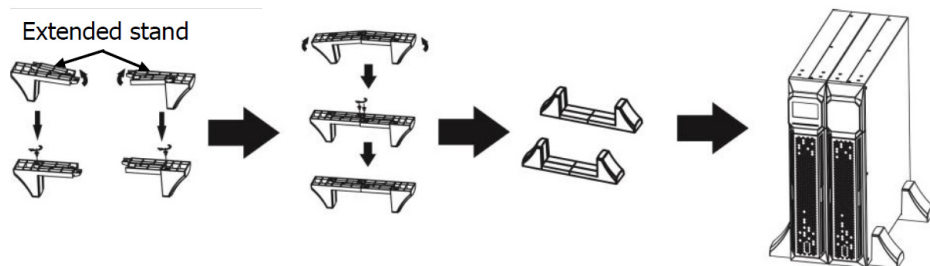
### **2.3 Mounting**

This unit can either be rack mounted or placed vertically on the desk.

#### Rack Mount

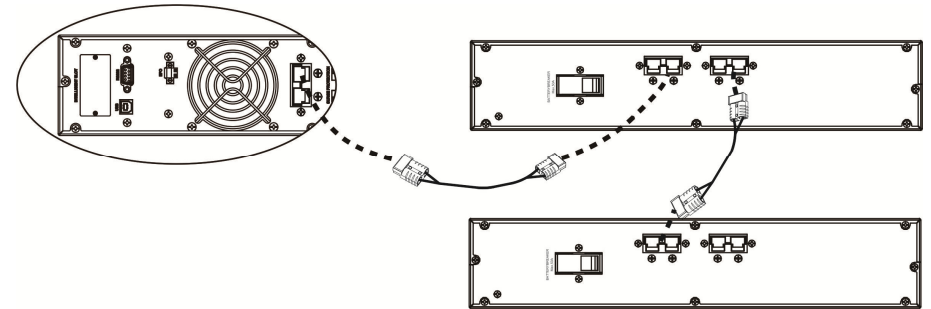


#### Vertical (Tower) Desktop Mount



### **2.4 Connecting to UPS or Another Battery Box**

Follow the diagrammatic instructions below to connect your battery box to a UPS or another battery box:



### **2.5 Available Battery Specs**

This battery box has been designed to operate with the following batteries:

24V18AH: 4 pieces of 12V 9Ah batteries

36V18AH: 6 pieces of 12V 9Ah batteries

48V18AH: 8 pieces of 12V 9Ah batteries

72V18AH: 12 pieces of 12V 9Ah batteries

### **3 Storage & Maintenance**

The unit contains no user-serviceable parts. If the battery service life (3~5 years at 25°C ambient temperature) has been exceeded, the batteries must be replaced. In this case, please contact your dealer.



Be sure to deliver the spent battery to a recycling facility or ship it to your dealer in the replacement battery packing material.

#### **Storage**

Before storing, charge the unit for 4 hours. Store the unit covered and upright in a cool, dry location. During storage, follow the instructions shown in the table:

Storage Temperature	Recharge Frequency	Charging Duration
-25°C - 40°C	Every 3 months	1-2 hours
40°C - 45°C	Every 2 months	1-2 hours