

Battery Box User Manual

1 Important Safety Instructions

Please read the following instructions thoroughly before using the unit and strictly comply with all safety and operating instructions within this manual.

- Do not try to repair the unit yourself. Contact your local dealer for assistance or your warranty will be voided.
- To eliminate any overheating of the battery box, keep all ventilation openings free from obstruction and do not place any objects on top of the battery bank. Keep the battery box at least 20 cm 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 expose the battery box to direct sunlight. Your warranty will be voided if the batteries fail due to overheating.
- This battery box is not designed for use in dusty, corrosive, and salty environments.
- The warranty for this battery bank will be voided if water or other liquids is spilled or poured onto the battery box. Similarly, we do not warrant any damages to the battery box resulting from foreign objects being inserted into the battery box enclosure.
- The battery will discharge naturally if the system is unused for an extended period of time.
- It should be recharged every 2 – 3 months if unused, otherwise the warranty will be voided. During normal operation, the batteries are automatically kept in a charged state.
- Servicing of batteries should be performed or supervised by trained personnel with comprehensive battery knowledge and the required precautions.
- When replacing batteries, only use batteries of equal quantity, type, and capacity.
- CAUTION – Do not dispose of batteries in close proximity with a fire. The batteries 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 electric shock and high or short circuit current. The following precaution measures should be considered when working on batteries:
 1. Remove watches, rings, or any other metal objects.
 2. Use tools with insulated handles.
 3. Wear rubber gloves and boots.
 4. Do not put any tools or metal objects on top of batteries.

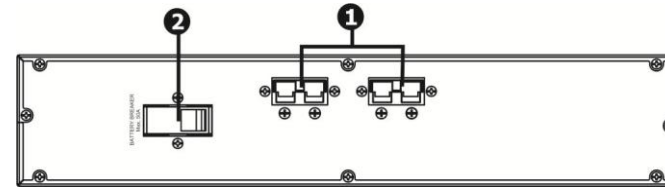
5. Disconnect all power source prior to connecting / disconnecting battery terminals.
- Do not plug or unplug the battery connector when the connected UPS is operating in DC (discharging) mode.

2 Product Overview and Setup

IMPORTANT: Before using, please do the following:

- Inspect the unit to make sure that nothing inside the package is damaged and keep the original package in a safe place for future use.
- Turn on the DC breaker (No. 2, 2.1 Rear Panel View), which is turned off by default.

2.1 Rear Panel View



- ① DC connector: connects to either a UPS or another battery box
- ② DC breaker: battery current overload protection breaker

2.2 Installation and Setup with UPS

Unpackaging and Inspection

1. Remove the battery box from its packaging.
Note: The battery box is very heavy. Be cautious when unpacking and lifting the unit to avoid injury.



battery connection cable

2. Check the package contents

- Battery Box Unit
- quick start guide
- battery connection cable x 1
- ear x 2 & screw x 8
- extended stand



extended stand

Selecting Installation Site

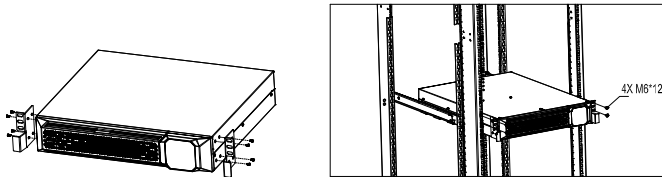
It is necessary to select a proper environment to install the unit in order to avoid and minimize potential damages to the battery box and extend the life of the batteries. Please follow the instructions below:

1. Keep at least 20 cm (8 inches) of space clearance from the rear panel of the unit to the wall or other obstructions.
2. Do not block and allow air flows to the ventilation openings of the unit.
3. Please make sure the conditions of the installation site comply to 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.

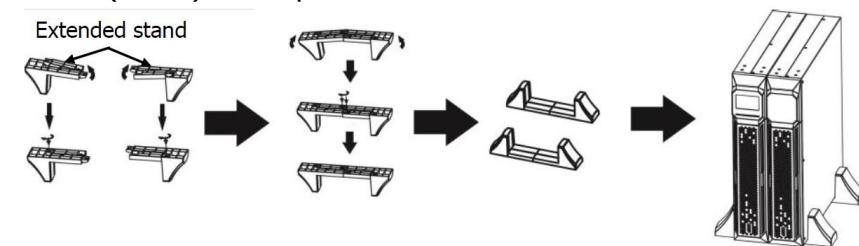
2.3 Placement

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

Rack Mount

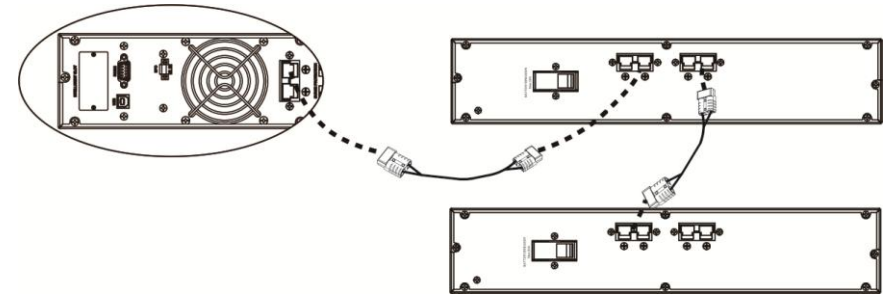


Vertical (Tower) Desktop Mount



2.4 Connecting to UPS or Another Battery Box

Refer to the diagram below for connecting the battery box to a UPS or another battery box:



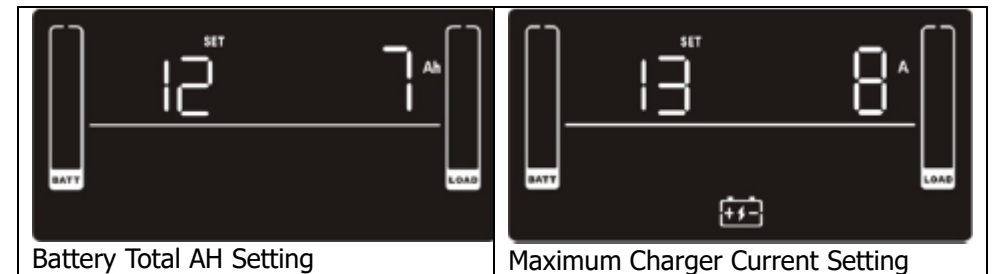
2.5 Compatible Battery Specs

24V18AH	4 pieces of 12 V 9 Ah batteries
36V18AH	6 pieces of 12 V 9 Ah batteries
48V18AH	8 pieces of 12 V 9 Ah batteries
72V18AH	12 pieces of 12 V 9 Ah batteries

IMPORTANT: Connecting to external batteries will affect the total AH and maximum charger current of the UPS. Please adjust the UPS' settings as described below.

Adjusting the AH and Maximum Charger Current Settings of the UPS

On the UPS' LCD panel, access settings displayed as *12* and *13* to respectively adjust the total AH and charger maximum current values of the UPS, as illustrated below.



3 Storage & Maintenance

The unit contains no user-serviceable parts. When the battery reaches its service life (3 ~ 5 years at 25 °C ambient temperature), please contact your dealer for immediate replacement.



Be sure to deliver the used batteries to a recycling facility or ship it to your dealer upon replacing them.

Storage

Before storing, charge the unit for about 4 hours. Then store the unit in an upright, covered, cool, and dry location in accordance to the conditions described in the table below.

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