

P91 External Battery Pack

User & Installation Manual

Important Safety Warnings

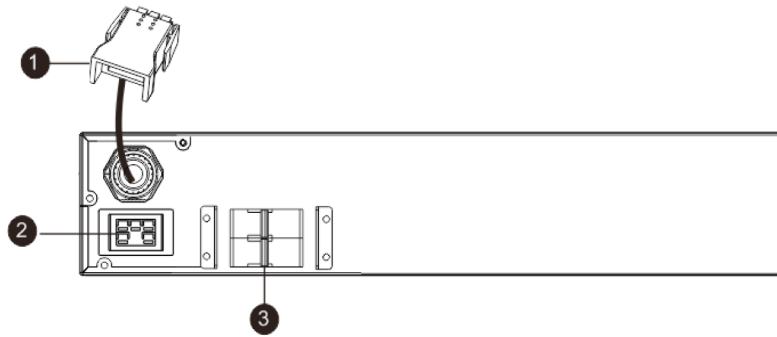
Please comply with all warnings and operating instructions in this manual. Save this manual and read carefully the following instructions before installing the unit. Do not operate this unit before reading through all safety information and operating instructions carefully.

- 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 pack, keep all ventilation openings free from obstruction and do not place any foreign objects on top of the battery pack. Keep the battery pack at least 8 inches away from the wall.
- Make sure the battery pack is installed within the proper environment as specified. (0-40°C and 30-90% non-condensing humidity)
- Do not install the battery pack under direct sunlight. Your warranty will be void if the batteries fail due to overheating.
- This battery pack is not designed for use in dusty, or corrosive environments.
- The warranty for this battery pack will be void if water or other liquid is spilled or poured directly onto the battery pack. Similarly we do not warrant any damage to the battery pack if foreign objects are deliberately or accidentally inserted into the battery pack 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 charged.
- 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.
- 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 is in DC (discharging) mode.

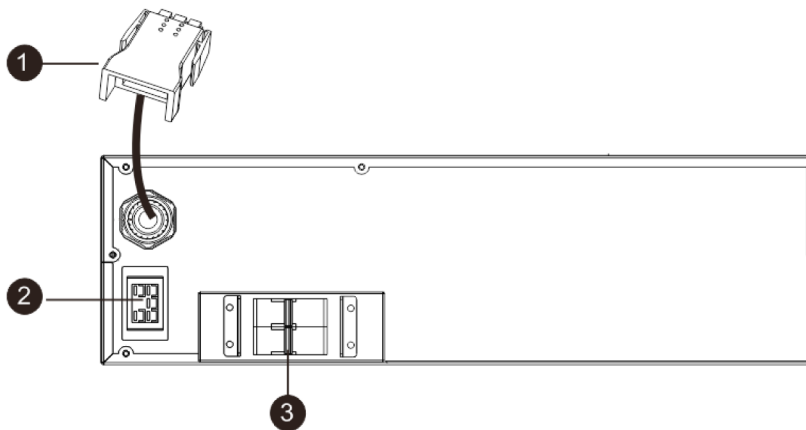
Product Overview and Setup

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

Rear Panel View



2U Battery Pack Rear Panel



3U Battery Pack Rear Panel

1. DC connector cable : connects to either UPS or additional battery pack
2. DC connection point for additional pattery pack
3. DC breaker: Battery over-current protection breaker

Installation and Setup with UPS

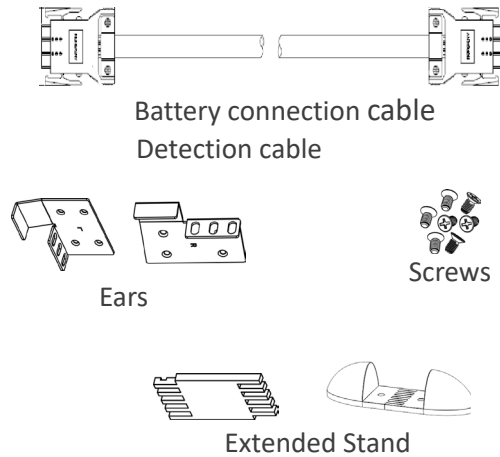
Unpacking & Inspection

1. Remove the battery pack from the packaging

Note: The battery pack is very heavy, be cautious when unpacking and lifting the unit to avoid injury.

2. Check the inside package

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



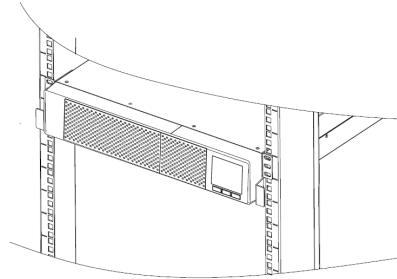
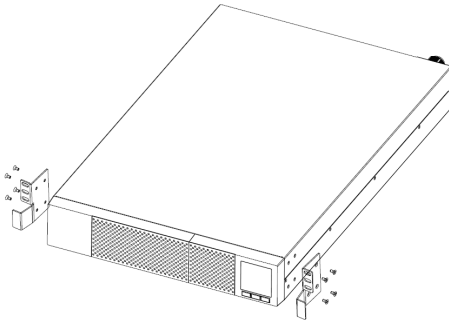
Selecting Installation Position

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

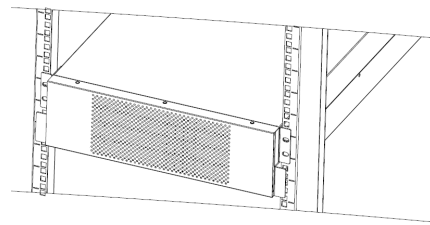
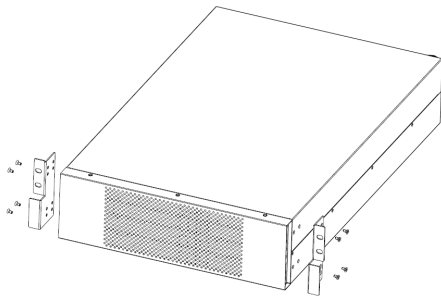
1. Keep at least 20cm (8 inches) clearance from the rear panel of the unit to the wall or other obstructions.
2. Do not block the air-flow to the ventilation openings of the unit.
3. Please ensure the installation site environmental conditions are in accordance with the unit's working specifications to avoid overheating 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.

Rack Installation

1. Install rack rails (supplied separately) into the rack.
2. Install mounting ears in accordance with drawing below.
3. Slide battery pack onto rack rails and secure to rack with mounting ears.



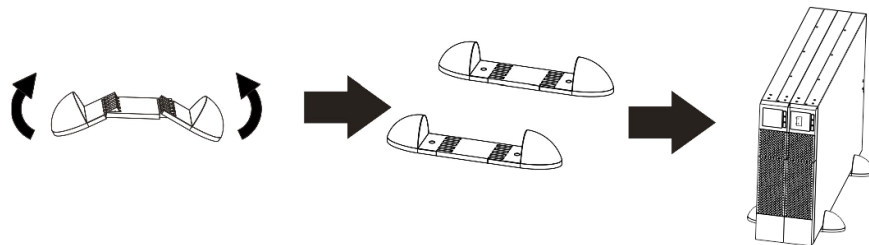
2U Battery Pack Rack Installation



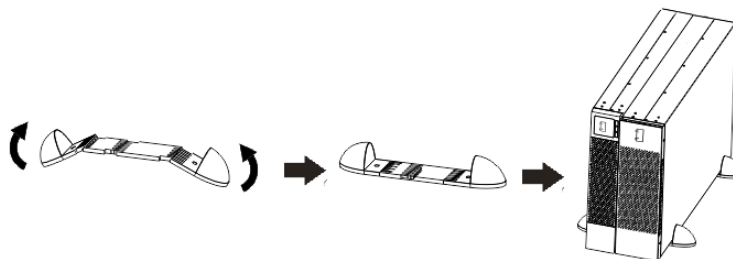
3U Battery Pack Rack Installation

Tower Installation

1. Using the supplied extended stand, place the UPS and battery pack adjacent to each other in the stand as shown in the drawing below.



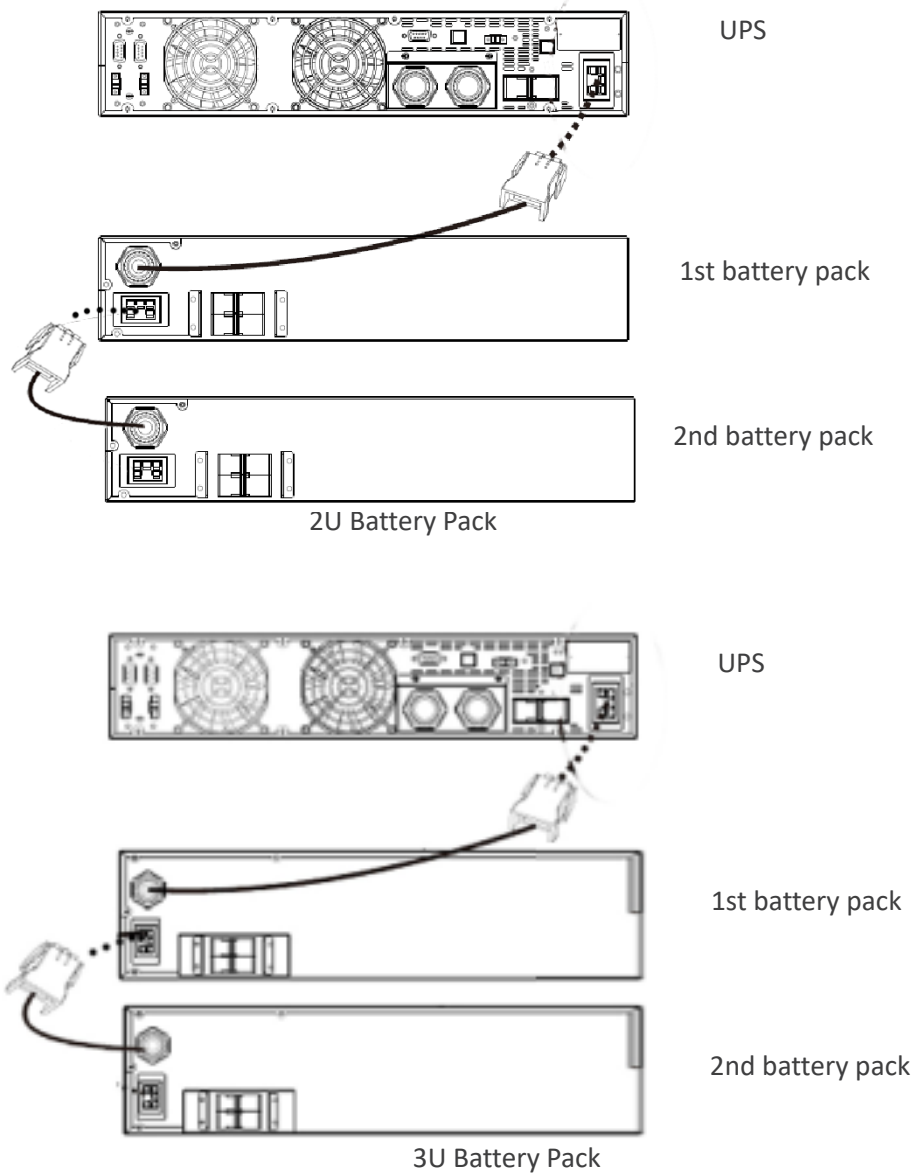
2U Battery Pack Tower Installation



3U Battery Pack Tower Installation

Connecting with UPS and Other Battery Pack

Follow below installation chart to connect with UPS and other battery pack with included cable.



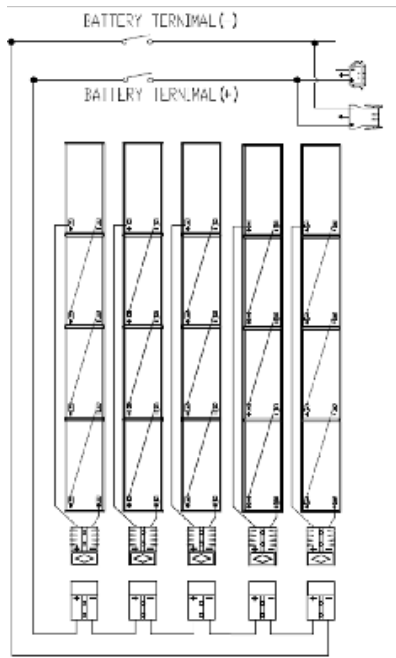
Type of Battery Required

This battery pack has been designed to operate with the following types of batteries:

240V/9Ah Version: 20pieces of 12V 9Ah batteries

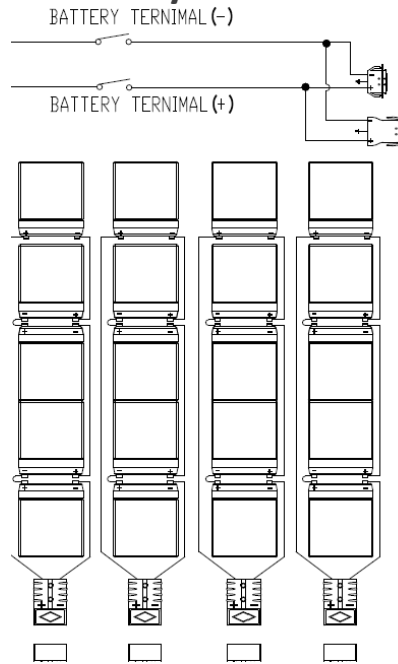
Wiring Diagram

3U Battery Pack 240V



front

2U Battery Pack 240V



front

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.

Storage

Before storing, charge the unit 4 hours. Store the unit covered and upright in a cool, dry location. During storage, recharge the battery in accordance with the following 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