



[WWW.BACKUPBATTERYPOWER.COM](http://WWW.BACKUPBATTERYPOWER.COM)

**(855) 330-7799**

# **Battery Bank Installation User's MANUAL**

**Table of Contents**

Chapter 1.   IMPORTANT SAFETY INSTRUCTIONS.....2

Chapter 2.   Introduction to the Front and Rear Panel.....4

      2.1.   Front and Rear Panel Descriptions .....4

Chapter 3.   Installation and Operation .....5

      3.1.   Unpacking .....5

      3.2.   Selecting Installation Position .....6

      3.3.   Installation Instructions.....7

          3.3.1.   Tower installation .....7

          3.3.2.   Rack Mount installation .....9

          3.3.3.   Connect DC Cable .....11

      3.4.   Storage Instruction .....12

      3.5.   Replacing the Battery.....12

      3.6.   Specification .....15

      3.7.   Recycling the Used battery .....16

# Chapter 1. IMPORTANT SAFETY INSTRUCTIONS

## ***SAVE THESE INSTRUCTIONS***

This manual contains important instructions that should be followed during installation and maintenance of the battery bank and batteries.

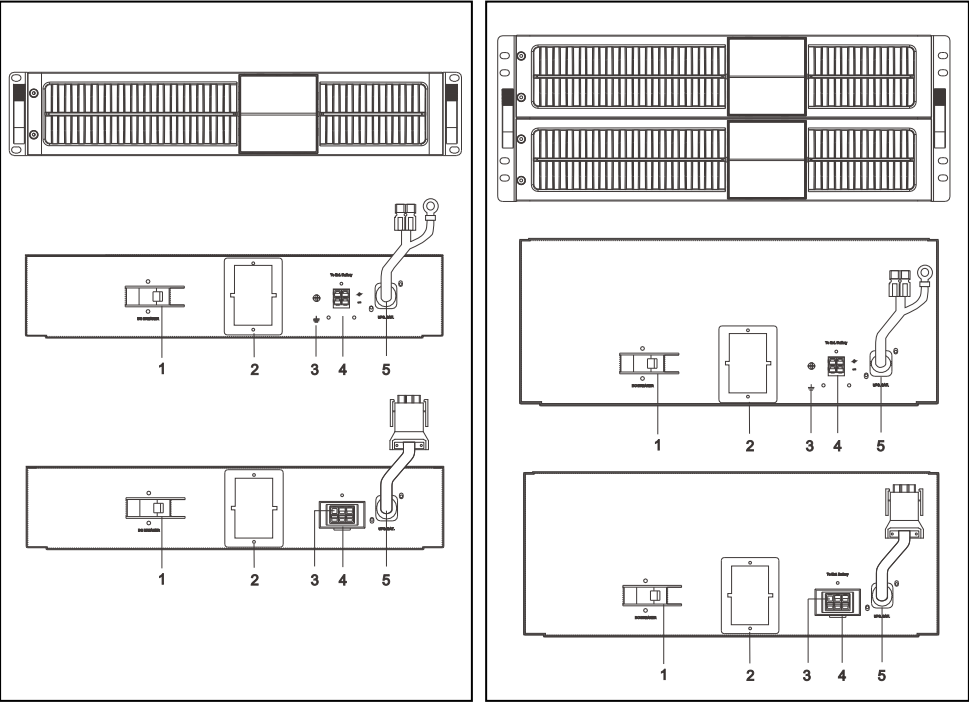
### ***Important Notice***

- This battery bank is connected to an UPS. There will be voltage at the output terminals if the UPS is turned on even if the input AC Mains is not available.
- Do not try to repair the unit yourself, contact your local supplier or your warranty will be void.
- To prevent overheating of the battery bank, keep all ventilation openings free from obstruction. Keep the battery bank front/rear panel 20 cm away from the wall.
- Make sure the battery bank is installed within the proper environment as specified. (0~40°C/32~104°F and 30-90%RH non-condensing)
- Do not install the battery bank at outdoor sites; this battery bank is designed for indoor use only.
- This battery bank 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 bank. Similarly we do not warrant any damage to the battery bank if foreign objects are deliberately or accidentally inserted into the battery bank enclosure.
- The battery will discharge naturally if the system is unused for a period of time. Long-term storage without recharge maintenance could cause batteries damaged.
- It should be recharged every 2-3 months if unused. If this is not done, then the Warranty will be null and void. During UPS normal operation, batteries will be automatically maintained in full charged condition.
- Servicing of batteries should be performed or supervised by trained personnel with knowledge of batteries and the required precautions.
- Replace only the same quantity, type & capacity batteries when needed.
- Make sure the battery is the same quantity/voltage before connect battery Cable.

- CAUTION – Do Not Dispose of Battery(ies) in open fire or high temperature environment. The Battery May Explode.
- CAUTION – Do not open or mutilate the batteries. The electrolyte of the batteries is toxic and harmful to the skin and eyes.
- CAUTION – Risk of electric shock – Battery circuit is not isolated from AC, 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:
  - A. Remove watches, rings, or other metal wearing objects.
  - B. Use tools with insulated handles and wear rubber gloves and boots.
  - C. Do not lay any metal tools or parts on top of batteries.
  - D. Disconnect charging source prior to connecting or disconnecting battery terminals.

# Chapter 2. Introduction to the Front and Rear Panel

## 2.1. Front and Rear Panel Descriptions



2U Model

4U Model



















1. DC Breaker (Option)	1. Battery Over-current Protection.
2. DC Fuse(s)	2. Easily remove battery bank from system.
3. Earth Terminal	Battery Over-current Protection.
4. Battery Connector	For safety grounding connection.
5. DC Power Cord	Battery bank extending connector.
	To link with UPS and battery banks.

# Chapter 3. Installation and Operation

Note: The packing condition and the external outlook of the unit should be inspected carefully before installation. Retain the packing material for future use.

## 3.1. Unpacking

- 1. Remove the packing foams and take the battery bank out of the box.  
**Warning:** The unit could be quite heavy. Check the weight of the unit before operating to avoid injury.
- 2. Standard Package includes — User's Manual
- 3. Accessories for Tower and Rack Mount

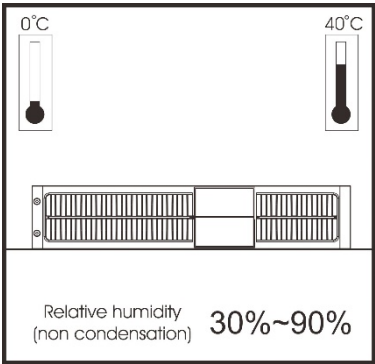
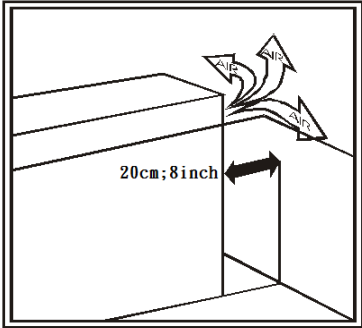
								
					 M4x8mm	 M3x6mm	 M3x6mm	
x4	x2	x2	x2	x1	x6	x8	x10	x1

B3 : 4 Pin Anderson Fixing pieces  
C1 : 6 Pin Anderson Fixing pieces

### 3.2. Selecting Installation Position

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

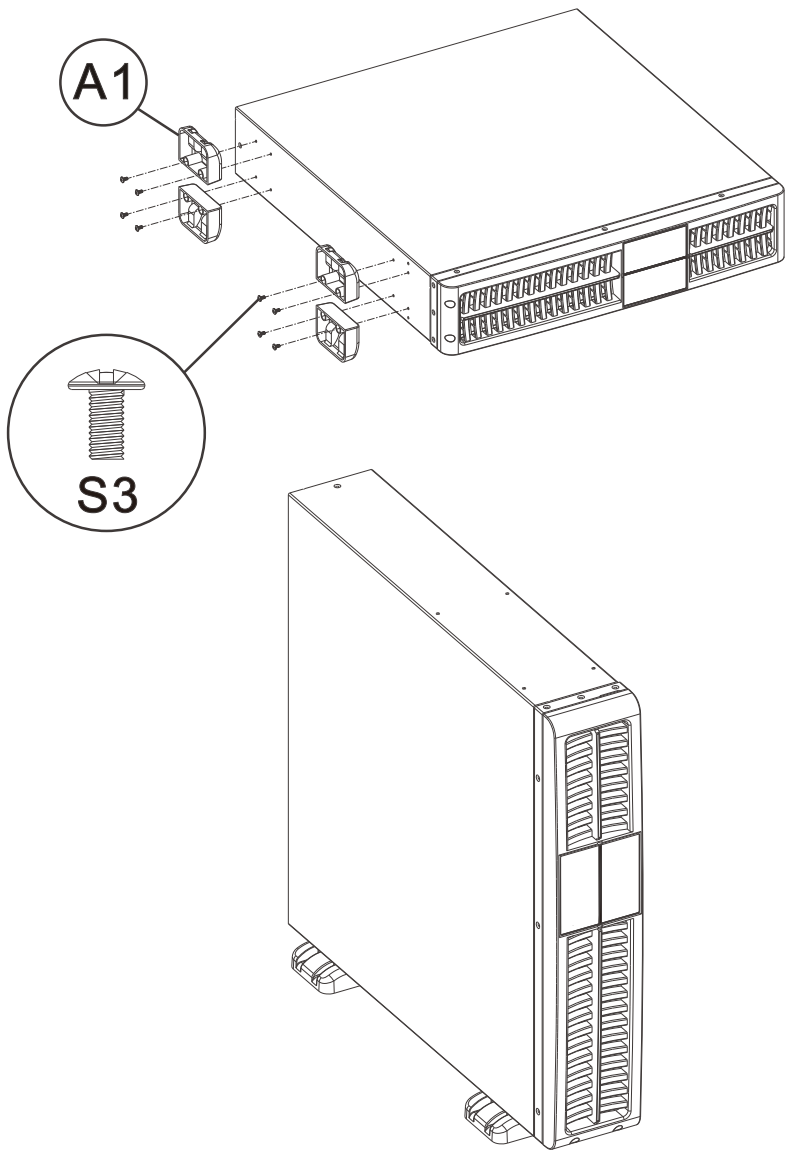
1. Keep at least 20cm (8 inches) clearance from the rear panel of the battery bank from the wall or other obstructions.
2. Do not block the air-flow to the ventilation openings of the unit.
3. Ensure the installation site environmental conditions are in accordance with the battery bank working specifications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



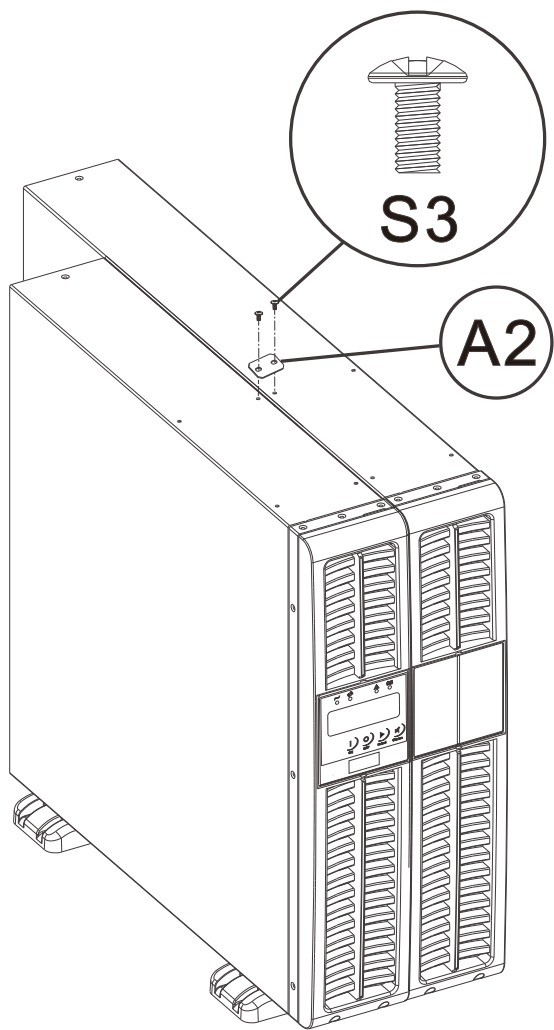
### 3.3. Installation Instructions

#### 3.3.1. Tower installation

Stand alone unit

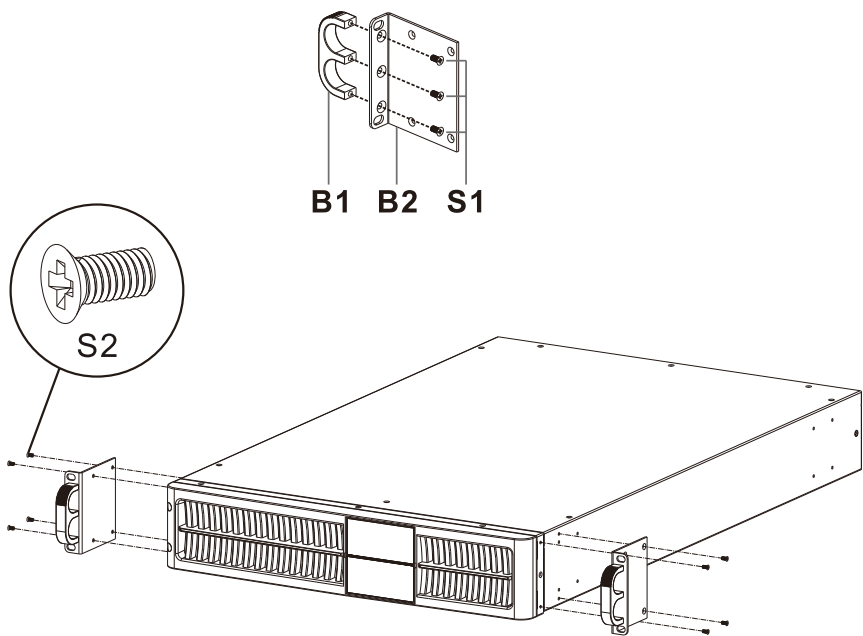


with UPS

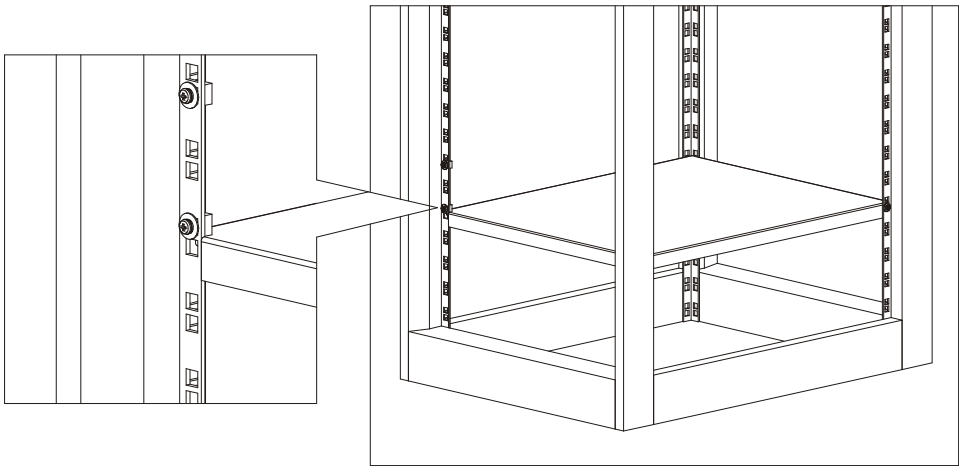


3.3.2. Rack Mount installation

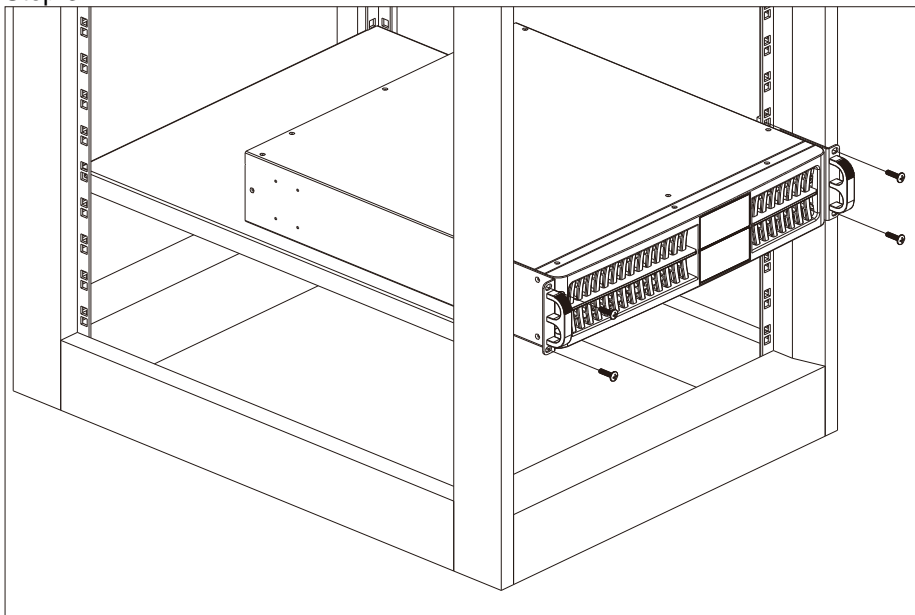
Step 1



Step 2

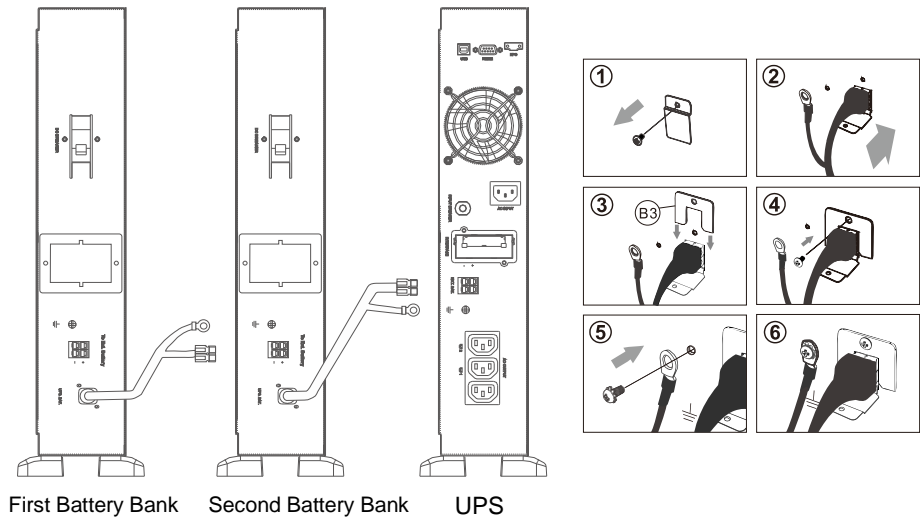


### Step 3

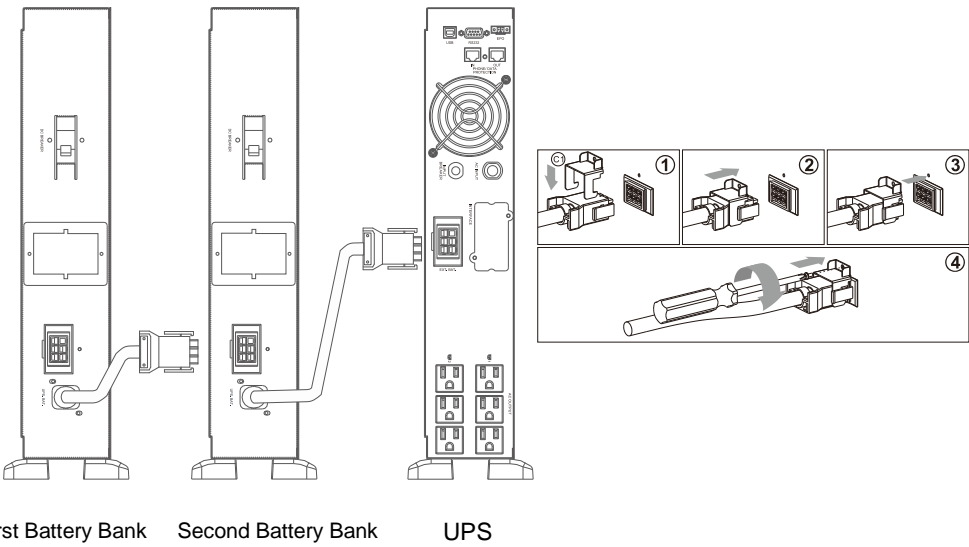


3.3.3. Connect DC Cable

4P



6P



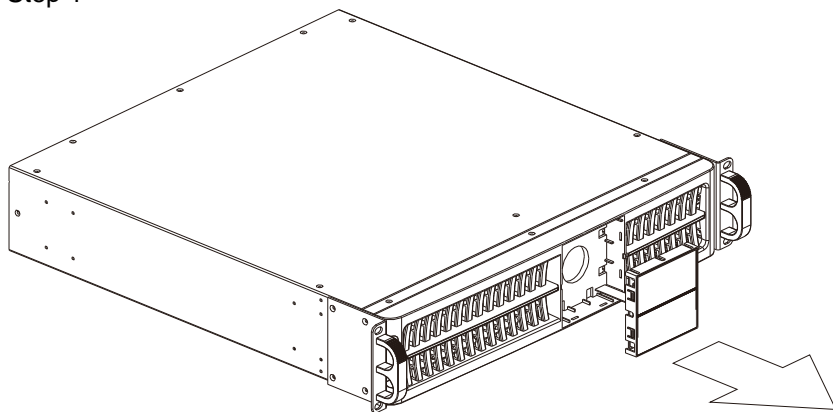
### 3.4. Storage Instruction

For extended storage through moderate climates ( $-15$  to  $+30^{\circ}\text{C}$  /  $+5$  to  $+86^{\circ}\text{F}$ ), the batteries should be charged for 12 hours every 6 months by plugging the UPS power cord into the wall receptacle or by an external charger. Repeat this every 3 months under high temperature ( $+30$  to  $+45^{\circ}\text{C}$  /  $+86$  to  $+113^{\circ}\text{F}$ ) environments.

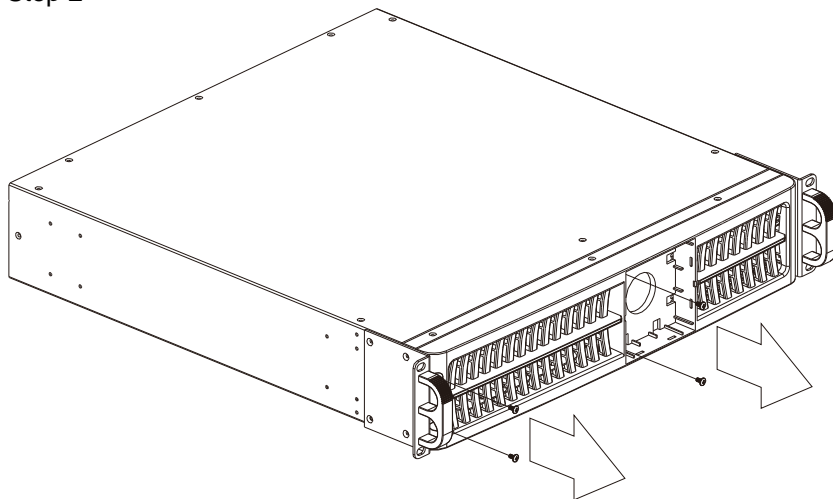
**Warning:** The lead-acid batteries will drain naturally and become damaged by long-term self-discharge without maintenance.

### 3.5. Replacing the Battery

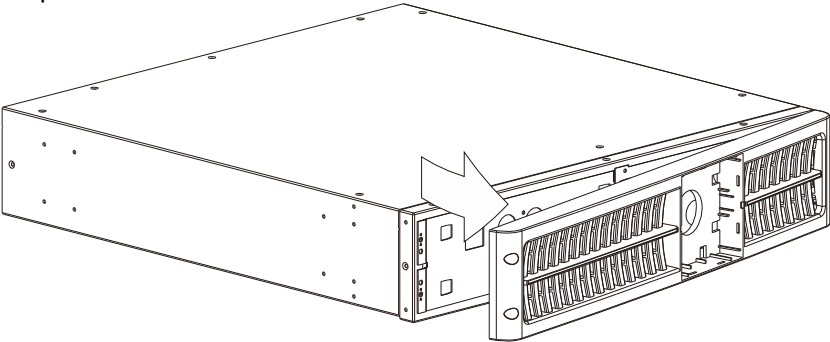
Step 1



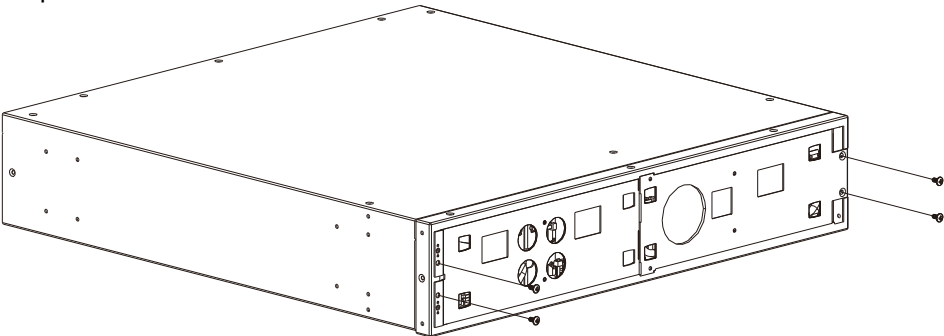
Step 2



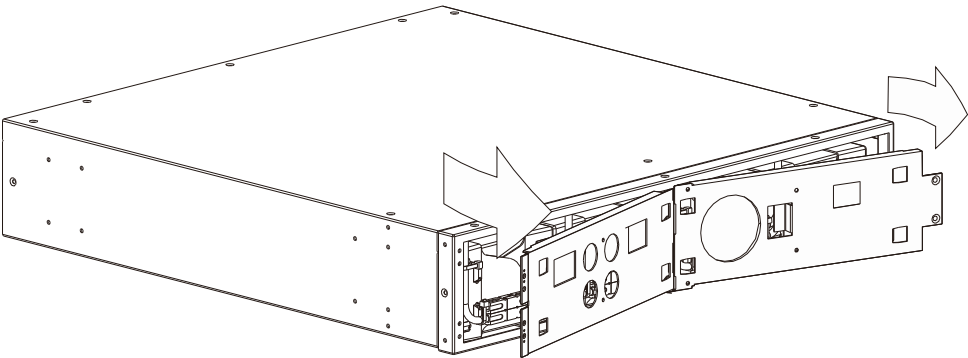
Step 3



Step 4

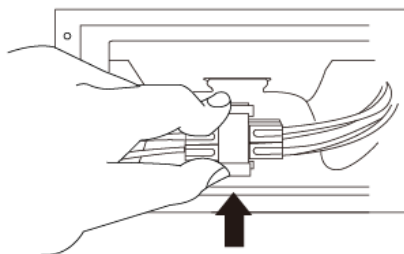


Step 5

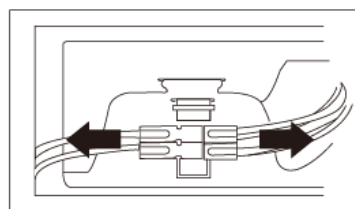


Step 6

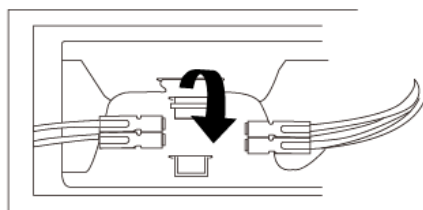
1



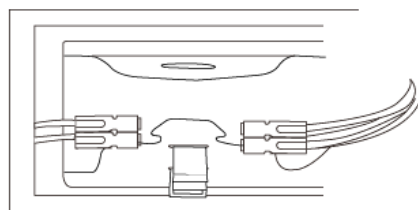
2



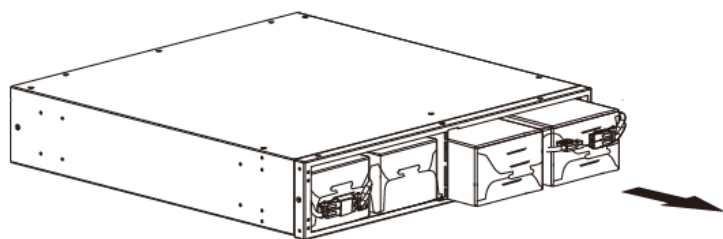
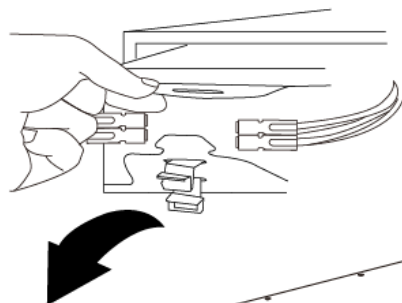
3



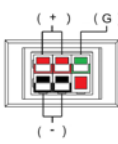
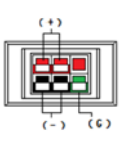
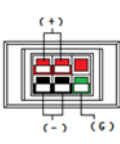
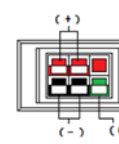
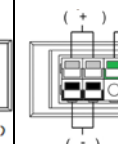
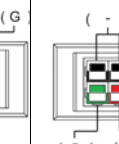
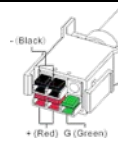
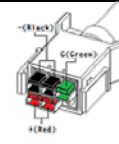
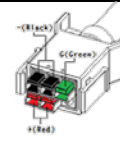
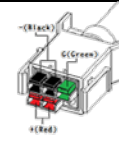
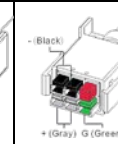
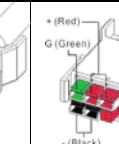
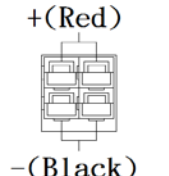
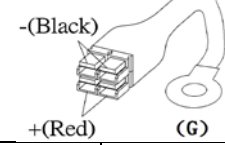
4



5



### 3.6. Specification

UPS	120V 1KVA	120V 1.5KVA	120V 1.5KVA	120V 1.5KVA	120V 2KVA	120V 3KVA
		230V 1KVA	230V 1KVA	230V 1KVA		230V 2/3KVA
Model code	BBP-AR-1000RM-PSW-ONL-EBP	BBP-AR-1500RM-PSW-ONL-EBP-6B	BBP-AR-1500RM-PSW-ONL-EBP-12B4U	BBP-AR-1500RM-PSW-ONL-EBP-12B2U	BBP-AR-2000RM-PSW-ONL-EBP	BBP-AR-3000RM-PSW-ONL-EBP
Voltage Rating	24VDC	36VDC	36VDC	36VDC	48VDC	72VDC
Capacity x Strings	7/9Ah x 8	7/9Ah x 6	7/9Ah x 12	7/9Ah x 12	7/9Ah x 8	7/9Ah x 12
DC Sockets 6p						
DC Plugs 6p						
DC Sockets 4p						
DC Plugs 4p						
Dimensions (WxHxD, inch/mm)	17.3x3.5x16.9 440x88x430	17.3x3.5x16.9 440x88x430	17.3x7.0x16.9 440x176x430	17.3x3.5x22.9 440x88x581	17.3x3.5x16.9 440x88x430	17.3x3.5x22.9 440x88x581
Weight (9AH) (kg/lb)	59.91 lb 27.2 kg	48.02 lb 21.8 kg	75.77 lb 34.4 kg	83.26 lb 37.8 kg	59.91 lb 27.2 kg	83.26 lb 37.8 kg
Weight (7AH) (kg/lb)	54.62 lb 24.8 kg	44.05 lb 20.0 kg	67.84 lb 30.8 kg	75.33 lb 34.2 kg	54.62 lb 24.8 kg	75.33 lb 34.2 kg

<b>Recommended Recharge Current</b>	10.8A(max)	5.4A(max)	10.8A(max)	10.8A(max)	5.4A(max)	5.4A(max)
<b>Output Current (max)</b>	50A					
<b>Operation Environment</b>	0~40°C / 32~104°F, 30-90%RH non-condensing					
<b>Storage Environment</b>	-15~45°C, 30-90%RH non-condensing					
<b>Compliance</b>	CE / cTUVus					

### 3.7. Recycling the Used battery

Contact your local recycling or hazardous waste center for information on proper disposal of the used battery.

