

User's Manual BATTERY PACK

BPE36V60ART2US BPE72V60ART2US

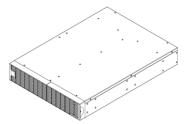
CyberPower Systems Inc. www.cpsww.com

OVERVIEW

The CyberPower Battery packs (BPE36V60ART2US / BPE72V60ART2US) support 50A polarized plugs, and are designed for variety of CyberPower UPS systems. When combining with the UPS, the Battery pack provides extended runtime with a 36VDC/72VDC external connection. Additional parallel-connected Battery packs provide the UPS for a longer extended runtime operation.

UNPACKING





1K/1.5KVA or 2K/3KVA Battery pack





User's manual

Register card



Rackmount left rail

Rackmount right rail





Left hanging bracket

Right hanging bracket



Power cord

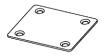


Rubber feet (12)





Rackmount ears (Stands) (2)



Tie plate (1)



Flat head screws: M5X7L (8)



Pan head screws: M5X12L (4)



Pan head screws: M5X6L (14)



Guide screws: M5X10L (2)



Plastic washers (8)



Screw hole dust covers (12)

HARDWARE INSTALLATION

HARDWARE INSTALLATION

These versatile Battery packs can be mounted in a rackmount or vertical tower orientation. This versatility is especially important to growing organizations with changing needs that value having the option to position a Battery pack on a floor or in a rackmount system. Please follow the instructions below for the respective mounting methods.

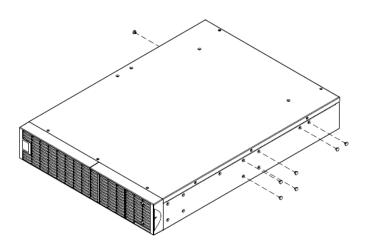
SAFETY PRECAUTIONS

CAUTION! To prevent the risk of fire or electric shock, only use the supplied hardware to attach the mounting brackets.

RACKMOUNT INSTALLATION

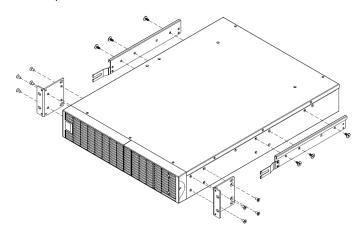
Step 1: Remove the dust covers

Remove the dust covers *7pcs from the screw holes.



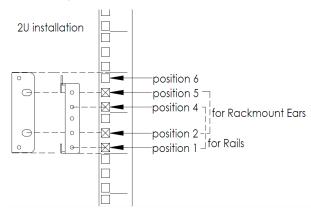
Step 2: Rackmount ears & hanging brackets installation

Attach two rackmount ears to the Battery pack using the provided M5X7L*8pcs screws and tighten two hanging brackets with the M5X6L*6pcs screws.

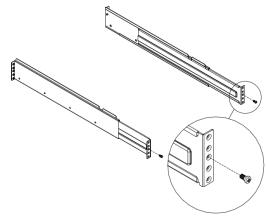


Step 3: Rackmount rail Installation

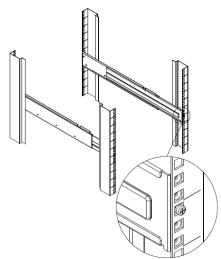
The rails adjust to mount in 48-cm (19-inch) panel racks from 52 to 91.5cm (20.5 to 36 inches) deep. Select the proper holes in the rack for positioning the Battery pack in the rack. The Battery pack takes up position 1 through 6.



Tighten the provided M5X10L*2pcs guide screws on the center hole of the rear side for each rail.



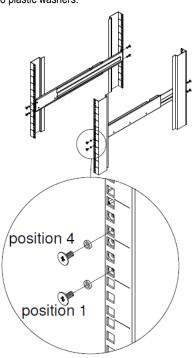
Position the guide screws on the rails into the rear rack square holes to temporarily support the rails in place. Tighten the front rail screws on the rack.



HARDWARE INSTALLATION

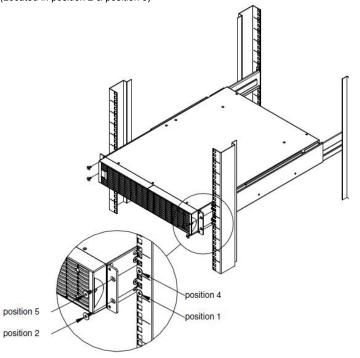
Step 4: Adjust rackmount rails to fit your rack

Adjust the rail depth to match your rack depth. Attach the rackmount rail to your rack with two screws and two plastic washers at the front of the rack. (Located in position 1 & position 4) Tighten the M5X6L screws on the front bracket. Secure the rail to the rear of the rack with two M5X6L screws and two plastic washers.



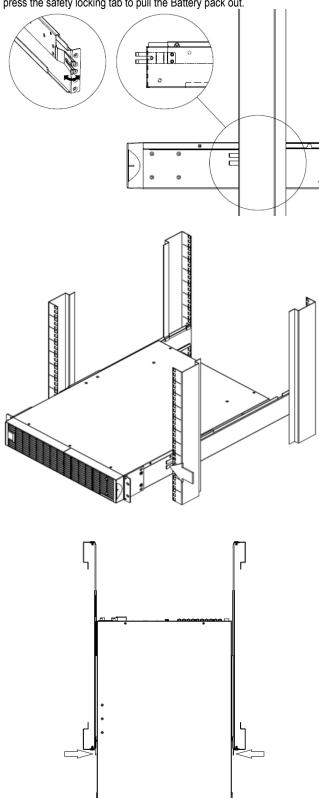
Step 5: Place and secure the Battery pack on the rails

Slide the hanging brackets on the Battery pack into the rails mounted in the rack with the front of the unit facing toward you. Secure the Battery pack to your rack with four M5X12L*4pcs screws at the front of the rack. (Located in position 2 & position 5)



How to Slide out Battery pack from rail

The Battery pack will be secured by a safety locking mechanism midway of pulling it out of the rack. Use both hands to hold the Battery pack and press the safety locking tab to pull the Battery pack out.

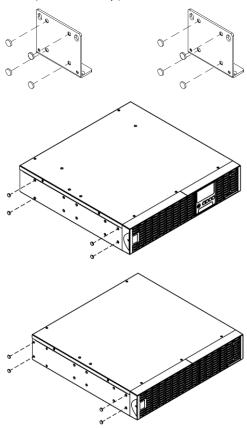


HARDWARE INSTALLATION

VERTICAL/TOWER INSTALLATION

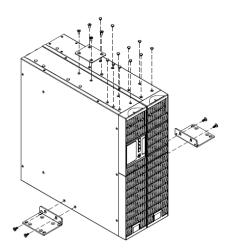
Step 1: Adhere the rubber feet on the bottom side of base stands

Adhere the protective rubber feet on the bottom side of base stands (rackmount ears) UPS and Battery pack.



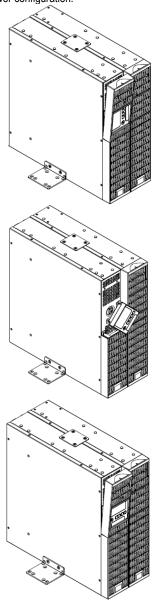
Step 2: Attach the base stands and attach the dust covers

Secure the tie bracket with the screws (M5X7*4pcs). Tighten the screws (M5X12*4pcs) of the base stands (rackmount ears) onto the bottom of the UPS and Battery pack. Insert dust covers into the screw holes that are not being used.



Step 3: Rotate the Multifunction LCD Module

Unscrew the upper panel of the UPS. Separate the upper panel from the UPS. Gently lift the LCD module out. Rotate it to the tower orientation. Reinstall it for a tower configuration.



SAFETY PRECAUTIONS

CAUTION! Installation environment should be in a temperature and humidity controlled indoor area free of conductive contaminants. Do not install this Battery pack where excessive moisture or heat is present (Please see specifications for acceptable temperature and humidity range).

CAUTION! Never install a Battery pack, or associated wiring or equipment, during a lightning storm.

CAUTION! Do not work alone under hazardous conditions.

CAUTION! In case of the risk of electric shock, do not remove the top cover.

CAUTION! The battery can energize hazardous live parts inside even when the AC input power is disconnected.

BASIC OPERATION

BATTERY PACK FRONT/REAR PANEL DESCRIPTION

On-board Replaceable Fuse Cover

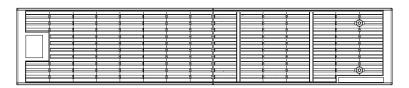
Replaceable fuse is accessible from the rear panel. It must be done by qualified personnel.

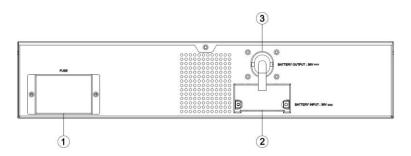
2. Input Connector

Use this input connector to daisy chain the next Battery pack. Remove the connector cover for access.

3. Output Cable

Use this output cable to connect the Battery pack to the UPS or to the next Battery pack.





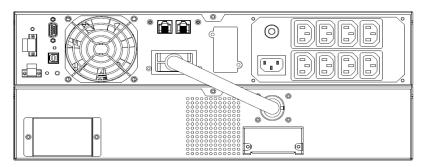
BPE36V60ART2US / BPE72V60ART2US

CONNECTION #1: UPS WITH ONE BATTERY PACK

- Step 1: Turn off the DC breaker of the Battery pack.
- Step 2: Loosen the two screws to remove the battery cable retention bracket of the UPS.
- Step 3: Use the output cable of the Battery pack to connect the Battery pack to the UPS.
- Step 4: Rotate the battery cable retention bracket and tighten the two screws to fix battery cable.
- Step 5: Use a power cord to plug AC input inlet of the battery pack into a wall receptacle.
- Step 6: Turn on the DC breaker of the Battery pack.





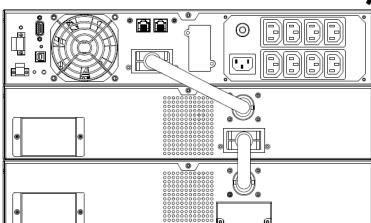


BASIC OPERATION

CONNECTION #2 : UPS WITH MULTIPLE BATTERY PACKS

- Step 1: Connect the 1st Battery pack to the UPS using the instructions above.
- Step 2: Turn off the DC breaker of the 2nd Battery module.
- Step 3: Loosen the two screws to remove the battery cable retention bracket of the 1st battery pack.
- Step 4: Use the output cable of the 2nd Battery pack to connect the 2nd Battery pack to the 1st Battery pack.
- Step 5: Rotate the battery cable retention bracket and tighten the two screws to fix battery cable.
- Step 6: Use a power cord to plug AC input inlet of the 2nd battery pack into AC output outlet of the 1st Battery pack.
- Step 7: Turn on the DC breaker of the 2nd Battery module.





BASIC OPERATION

EXTERNAL BATTERY PACKS CONFIGURATION

External Battery Packs can be configured by the user to display correct estimated battery runtimes.

- 1. Press the "ENTER" button to activate the "MAIN MENU".
- 2. Press the "▲" and "▼" buttons to scroll to the "Configure" option.
- 3. Press the "ENTER" button to select the "Configure" submenu.
- **4.** Press the "▲" and "▼" buttons to scroll to the "EBP Number" option.
- **5.** Press the "ENTER" button to select the "EBP Number" submenu.

The first configuration number will be displayed on the second column of LCD display.

- 6. Press the "▲" and "▼" buttons to scroll through the number of attached Battery packs.
- 7. Press the "ENTER" button to select the number of Battery packs installed.

You may be prompted to save the selection, if so press the "ENTER" button to save the setting.

8. Press the "ESC" button to cancel or return to the previous LCD menu.

Configure Submenu	Available Settings	Default Settings
EBP Number	= [0] [1] [2] [3] [4] [5] [6] [7] [8] [9] [10]	0

MAINTENANCE

Storage

To store your UPS for an extended period, cover it and store with the battery fully charged. Recharge the battery every three months to ensure battery life.

Battery Replacement

Please read and follow the Safety Instructions before servicing the battery. Battery replacement should be performed by trained personnel who are familiar with the procedures and safety precautions. Make a note of the replacement Battery pack number.

Safety Precautions

CAUTION! Only use replacement batteries which are certified by CyberPower Systems. Use of incorrect battery type is an electrical hazard that could lead to explosion, fire, electric shock, or short circuit.

CAUTION! Batteries contain an electrical charge that can cause severe burns. Before servicing batteries, please remove any conductive materials such as jewelry, chains, wrist watches, and rings.

CAUTION! Do not open or mutilate the batteries. Electrolyte fluid is harmful to the skin/eyes and may be toxic.

CAUTION! To avoid electric shock, turn off and unplug the Battery pack from the wall receptacle before servicing the battery.

CAUTION! Only use tools with insulated handles. Do not lay tools or metal parts on top of the UPS or battery terminals.

Replacement Batteries

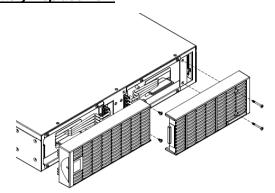
Please refer to the front side of the Battery pack for the model number of the correct replacement batteries. For battery procurement, log onto www.CPSww.com, or contact your local dealer.

Battery Disposal

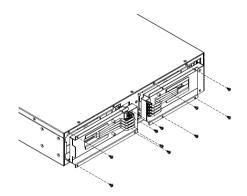
Batteries are considered hazardous waste and must be disposed of properly. Contact your local government for more information about proper disposal and recycling of batteries. Do not dispose of batteries in fire.

CyberPower Systems encourages environmentally sound methods for disposal and recycling of its UPS products. Please dispose and/or recycle your UPS and batteries in accordance to the local regulations of your state.

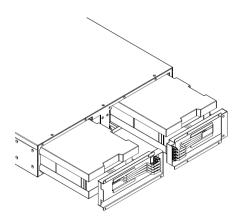
Battery Replacement



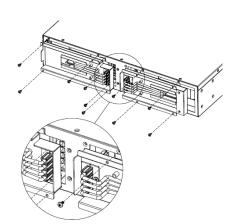
Step 1: Remove the front panels



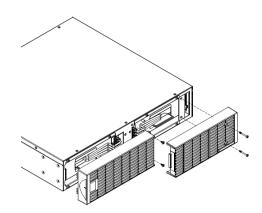
Step 2: Remove the retaining screws from the cable protection cover and then remove the cover itself



Step 3: Pull the battery tray out slowly and then put the new battery tray back into the compartment



Step 4: Fasten back the connectors on the battery retaining cover. Then insert the battery connectors and tighten the screws of battery retaining cover



Step 5: Install the front panels

TECHNICAL SPECIFICATIONS

Model	BPE36V60ART2US	BPE72V60ART2US		
Configuration				
AC Input Voltage	100~125Vac			
DC Output Voltage	36Vdc	72Vdc		
Amperage	60A			
Physical				
Dimensions (L x W x H =)	16.9 x 17 x 3.5in. (430 x 433 x 88mm)	23.6 x 17 x 3.5in. (600 x 433 x 88mm)		
Net Weight	50.6lbs(23.0Kg)	96.8lbs(44.0Kg)		
Battery				
Specifications	(6) (12V9AH) (2 x Banks of 3 Batteries)	(12) (12V9AH) (2 x Banks of 6 Batteries)		
Recharge Time (Typically)	4 hours (0~90%)			
Interface	PP45			
Sealed, Maintenance Free	Yes			
Hot-Swappable	Yes			
Built-in Charger	Yes			
Environment				
Operating Temperature	32°F to 104°F (0°C to 40°C)			
Operating Relative Humidity	0 to 90% Non-Condensing			
Safety				
Conformance Approvals	EAC, CE, RCM			
RoHS	RoHS Compliant			
Warranty				
Product Warranty	3-year limited warranty, Free Tech Support			

TROUBLE SHOOTING

Problem	Possible Cause	Solution	
Warning			
BAT Disconnected	Missing battery power.	Check battery connector and battery breaker.	
Battery Failure	UPS has failed in Battery Test.	 Check battery connector and battery breaker. Contact technical support to replace the battery. 	
Replace Battery	Battery will soon need to be replaced due to insufficient runtime.	Contact technical support to replace the battery.	
Fault			
Over Charge	Battery is overcharged.	1. Remove battery connector and check	
Charger Failure	Charger has failed.	charger voltage. 2. Contact CyberPower for repair.	

CyberPower Systems Inc.

www.cpsww.com

Entire contents copyright[®] 2016 CyberPower Systems Inc., All rights reserved. Reproduction in whole or in part without permission is prohibited. PowerPanel[®] Business Edition and PowerPanel[®] Personal Edition are trademarks of CyberPower Systems Inc.













