

CyberPower[®]
Reliability. Quality. Value.

User's Manual
BATTERY PACK

K01-0000295-01

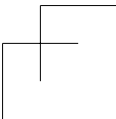
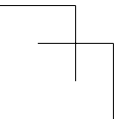
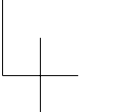
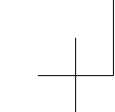


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Introduction

Overview

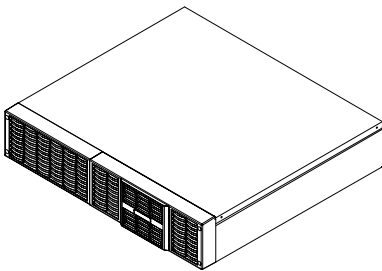
The external battery pack is designed for various CyberPower UPS systems and can be used in either rack or tower installation. The heavy gauge power cord has a plug-n-play DC connector for easy installation. When combining with UPS, the battery pack provides extended runtime with a 48V DC external connection. Further, the additional parallel-connected battery packs provide UPS for a longer extended runtime operation.

Model List

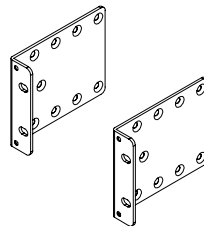
Model	Compatible UPS
BP48V45ART2U	PR750LCDRTXL2U, PR1000LCDRTXL2U, PR1500LCDRTXL2Ua
BP48V75ART2U	PR1000LCDRTXL2Ua, PR1500LCDRTXL2U, PR2200LCDRTXL2U, PR3000LCDRT2U, PR3000LCDRTXL2U

Unpacking

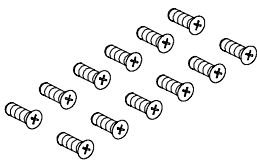
For BP48V45ART2U



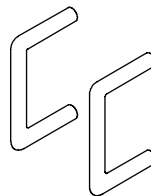
Battery Pack



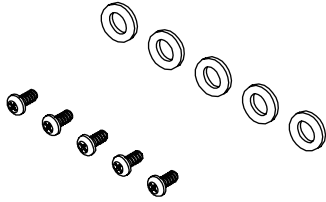
2 Mounting Brackets



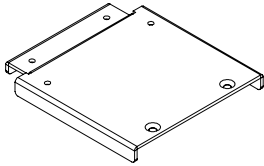
12 (M5x10) Bracket Mounting Screws (Include two spares)



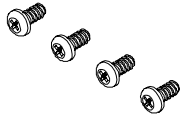
2 Rackmount Handles



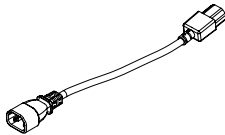
5 (M5x12) Screws/5 Washers
(Include one spare for each)



1 Expansion Piece for Metal Plate



4 (M4x8) Rubber Buffer Screws



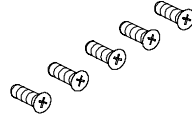
Power Cord 1 foot,
IEC-320 C14/IEC-320 C13



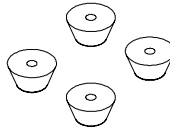
User Manual



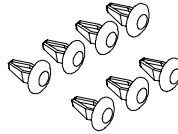
Registration
Card



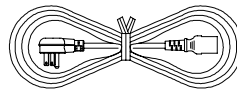
5 (M4x8) Rackmount Handle Screws
(Include one spare)



4 Rubber Buffer

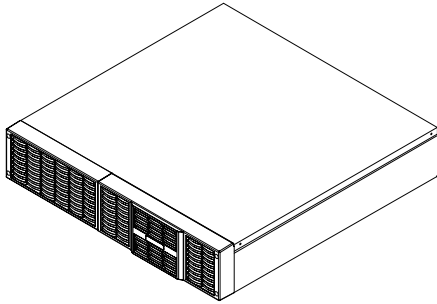


7 Screw Hole Dust Covers
(Include two spares)

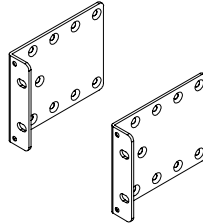


Power Cord 10 feet,
NEMA 5-15P/IEC-320 C13

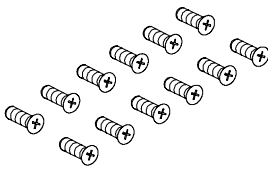
For BP48V75ART2U



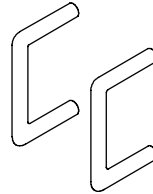
Battery Pack



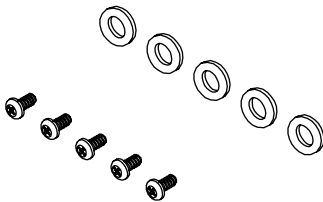
2 Mounting Bracket



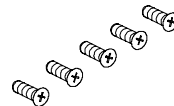
**12 (M5x10) Bracket Mounting Screws
(Include two spares)**



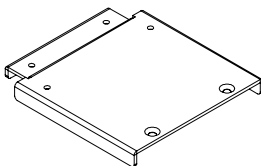
2 Rackmount Handles



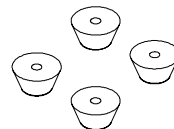
**5 (M5x12) Screws/ 5 Washers
(Include one spare for each)**



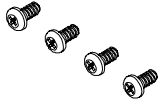
**5 (M4x8) Rackmount Handle Screws
(Include one spare)**



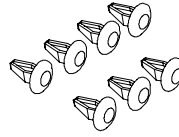
1 Expansion Piece for Metal Plate



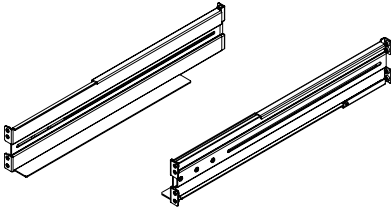
4 Rubber Buffer



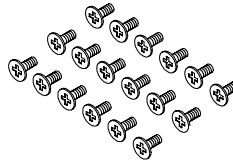
4 (M4x8) Rubber Buffer Screws



7 Screw Hole Dust Covers
(Include two spares)



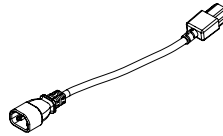
Rackmount Rails
(1 set-left and right side)



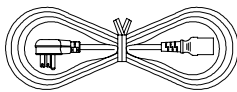
18 (M5x12) Rackmount Rail Screws
(Include two spares)



2 (M3x6) Battery Connector Screws



Power Cord 1 foot,
IEC-320 C14/IEC-320 C13



Power Cord 10 feet,
NEMA 5-15P/IEC-320 C13



User Manual

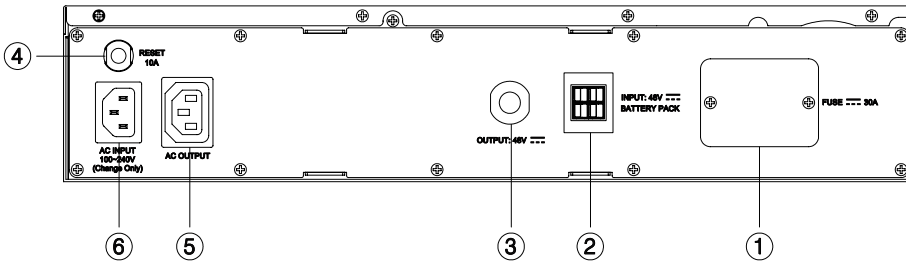


Registration
Card

Product Features

- Form Factor- 2U configuration supports both rack and tower mounting
- Metal Housing- Rigid metal construction provides greater durability and safety
- Back-panel Fuse- User replaceable fuse is easily accessed from the rear panel

BP48V45ART2U

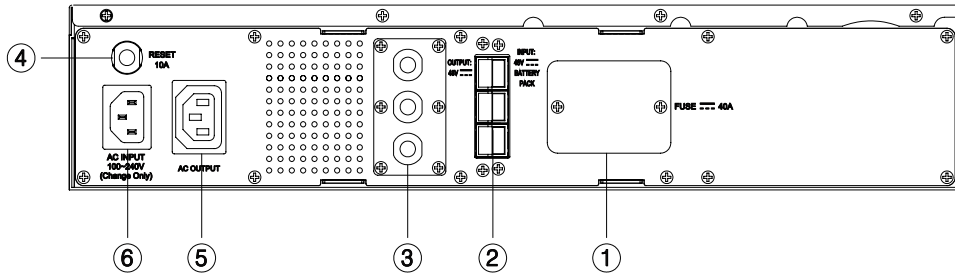


1. On-board User-replaceable Fuse Cover- User replaceable fuse is easily accessed from the rear panel.
2. Additional Battery Pack Connector Sockets
3. Connector Plug for Additional Battery Packs
4. AC Circuit Protection- Resettable circuit breaker that provides AC input overload protection.
5. AC Output Outlet- This outlet connects to the AC input inlet of additional battery packs.
6. AC Input Inlet- AC power connectivity to wall receptacle.

Technical Specification

Model	BP48V45ART2U
AC Input Voltage Range (V)	100~240Vac
DC Output	48Vdc, 60A
Battery	
Sealed Maintenance Free Lead Acid Battery	12V/7.0AHx8
Replaceable Battery Cabin	RBP872
Hot Swappable	Yes
Interface	PP45
Built-in Charger	Yes
Typical Recharge Time	6~8 Hours
Physical	
Dimensions (in)	2U Rack, 17"x3.5"x15"
Weight (lbs)	63
Environmental	
Operating Temperature	32 °F to 104 °F
Operating Relative Humidity	0 to 95% Non-Condensing
Operating Elevation	0 - 10000 ft
Safety Approvals	
Certifications	FCC Class A, UL 1778, CSA C22.2, NOM
ROHS	ROHS Compliant
Warranty	
Product Warranty	3 Years Limited

BP48V75ART2U



1. On-board User-replaceable Fuse Cover- User replaceable fuse is easily accessed from the rear panel.
2. Additional Battery Pack Connector Sockets
3. Connector Plug for Additional Battery Packs
4. AC Circuit Protection- Resettable circuit breaker that provides AC input overload protection.
5. AC Output Outlet- This outlet connects to the AC input inlet of additional battery packs.
6. AC Input Inlet- AC power connectivity to wall receptacle.

Technical Specification

Model	BP48V75ART2U
AC Input Voltage Range (V)	100~240Vac
DC Output	48Vdc, 80A
Battery	
Sealed Maintenance Free Lead Acid Battery	12V/9.0AHx8
Replaceable Battery Cabin	RBP892
Hot Swappable	Yes
Interface	PP75
Built-in Charger	Yes
Typical Recharge Time	6~8 Hours
Physical	
Dimensions (in)	2U Rack, 17"x3.5"x19"
Weight (lbs)	67
Environmental	
Operating Temperature	32 °F to 104 °F
Operating Relative Humidity	0 to 95% Non-Condensing
Operating Elevation	0 - 10000 ft
Safety Approvals	
Certifications	FCC Class A, UL 1778, CSA C22.2, NOM
ROHS	ROHS Compliant
Warranty	
Product Warranty	3 Years Limited

Installation Guide

Hardware Installation

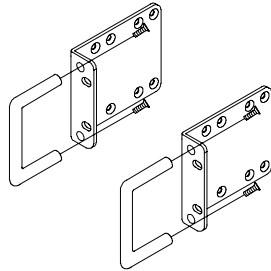
Rackmount Installation

The Battery Pack is supplied with mounting brackets and all the hardware. Follow below steps to complete the installation.

Step1: Place the Battery Pack in the Racks

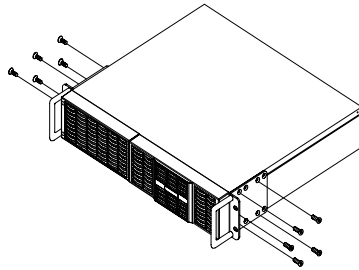
For BP48V45ART2U

①



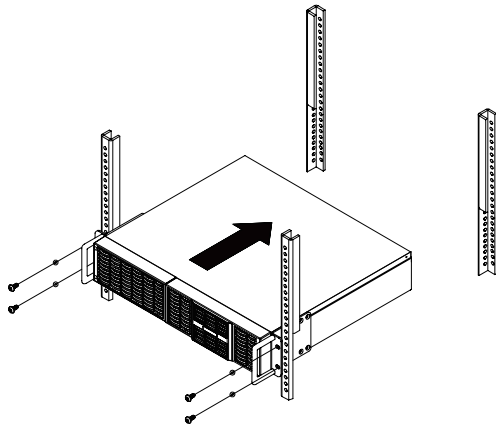
Use provided Rackmount Handle Screws (4) to secure the Rackmount Handle to the Mounting Bracket.

②



Use provided Mounting Bracket Screws (10) to attach the Mounting Brackets (2) to each side of the Battery Pack.

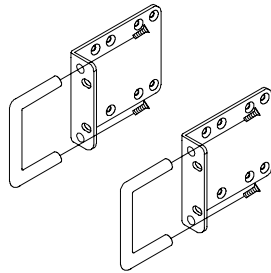
③



Use supplied Washers (4) and Screws (4) to secure the Battery Pack to the rack.

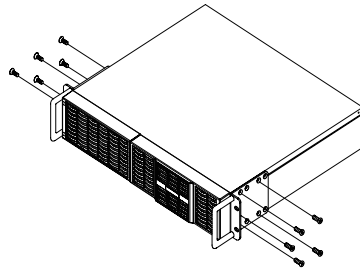
For BP48V75ART2U

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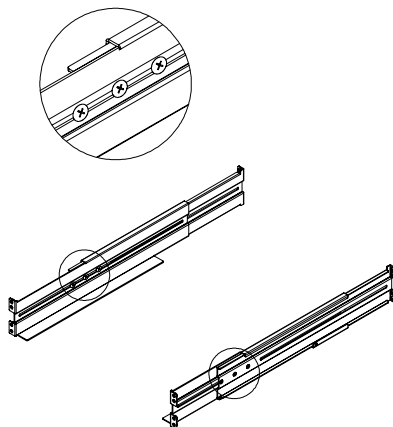
Use provided Rackmount Handle Screws (4) to secure the Rackmount Handle to the Mounting Bracket.

②



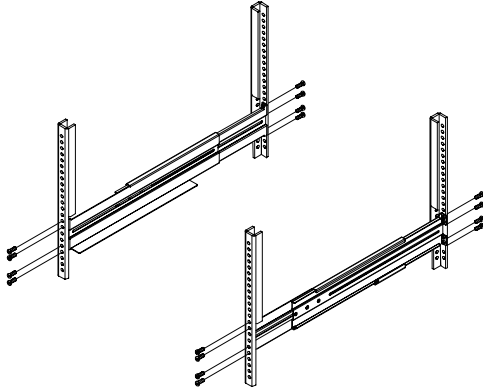
Use provided Mounting Bracket Screws (10) to attach the Mounting Brackets (2) to each side of the Battery Pack.

③



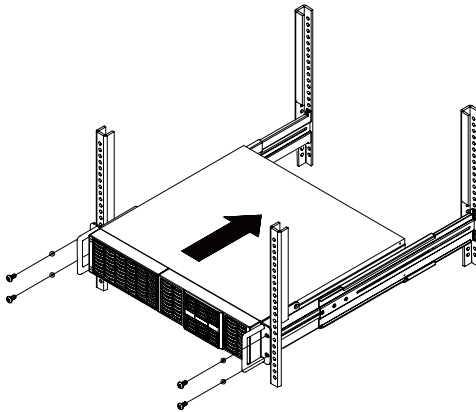
Loose the three screws to adjust the length of Rackmount Rails.

4



Adjust the length of Rackmount Rails to fit your rack system and secure the rails using provided Rackmount Rail Screws (16).

5

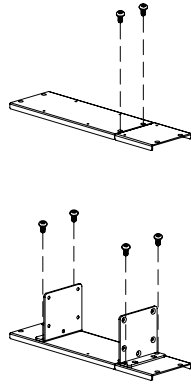


Slide Battery Pack on top of the Rackmount Rails and use supplied Washers (4) and Screws (4) to secure the Battery Pack to the rack.

Vertical/Stand Installation

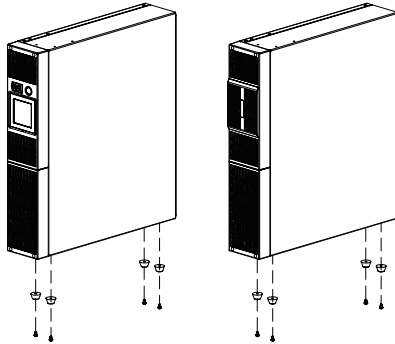
Note: UPS and Battery Pack have to combine together to implement the vertical installation.

①



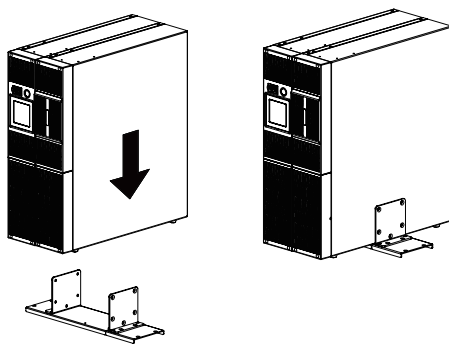
Use provided Bracket Mounting Screws (2) to connect the Metal Plate with Expansion Piece. Then use another four Bracket Screws to attach the Mounting Brackets (2) to the Expansion Metal Plate.

②



Secure the Rubber Buffer (4) as the base of the Battery Pack using supplied Rubber Buffer Screws (4).

③



Combine the UPS and Battery Pack and fit into the Expansion Metal Plate.

Electrical Installation

CAUTION! Single AC inlet can only support ten battery packs at most. If users connect more than ten battery packs, plug more wall receptacle to avoid overload.

CAUTION! Do not disconnect the battery pack when UPS is in operation.

CAUTION! Do not connect the battery pack to itself.

CAUTION! Additional battery packs are to be connected in parallel connected, the voltage maintains the same, yet the battery amp-hour capacity depends on the numbers of battery packs in the set up.

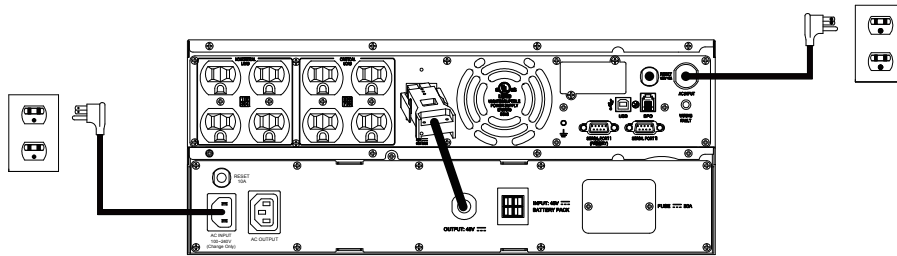
CAUTION! For GROUND protection, plug AC power connectivity to wall receptacle with ground line before using battery pack.

Step 1. Turn off the existing UPS system- Safely power off the UPS system and unplug it from the wall receptacle.

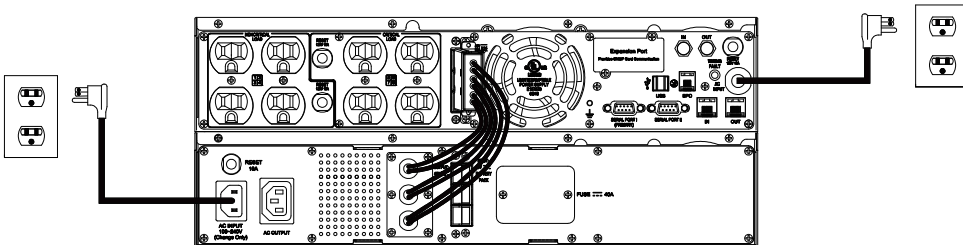
Step 2. Connect the Battery Pack's output cord into the UPS's input port. Ensure the color coded Battery Pack connector lines up correctly with the colors in the UPS socket.

One Battery Pack

BP48V45ART2U



BP48V75ART2U

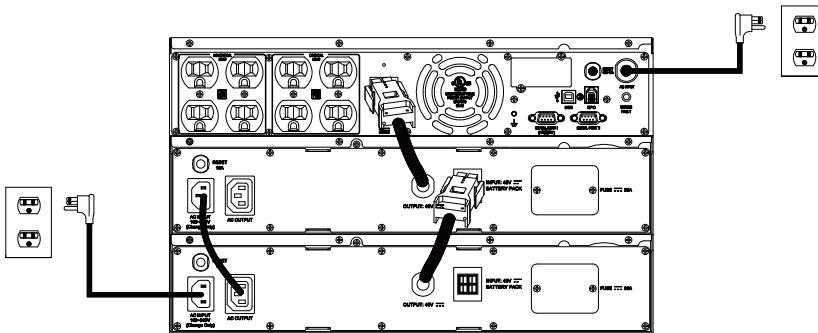


Multiple Battery Packs

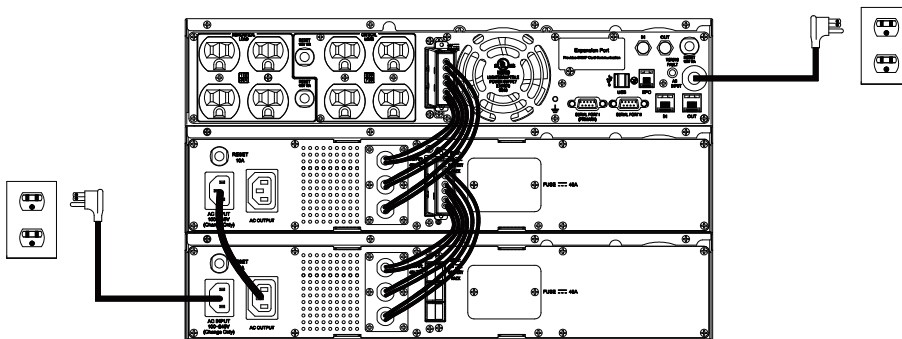
When connecting multiple Battery Packs, simply use the available socket(s) on the Battery Packs to add additional packs. All battery pack module must connect in right type, red to red, black to black, green to green.

When connecting with numerous battery packs to extend battery runtime, link the output plugs of all except the one that connects to the UPS.

BP48V45ART2U



BP48V75ART2U



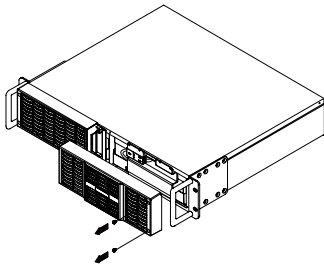
Step 3. Connect the Battery Pack to utility power- Connect the AC input inlet to the other battery pack's AC output outlet. If using multiple Battery Packs, use the Auxiliary AC power cord to provide power to subsequent power to additional Battery Packs.

Notice: Do not plug this AC power cord into a UPS.

Step 4. Turn on the UPS system- Plug the UPS system into the wall receptacle and safely power on the UPS system and connected equipment.

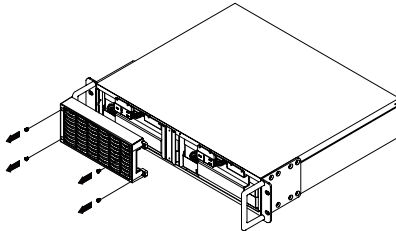
Battery Replacement Procedure

①



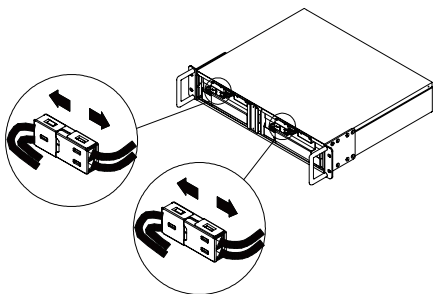
Remove the front panel on the right side.

②



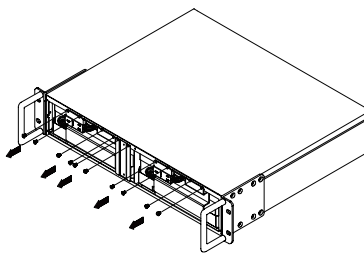
Remove the front panel on the left side.

③



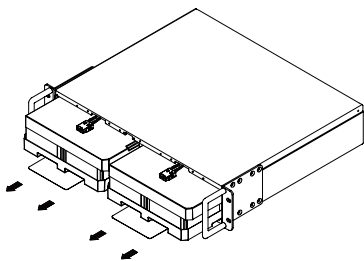
Disconnect the black and red wire from the battery.

④



Remove the cover and then remove the eight retaining screws.

⑤



Pull out old battery packs and replace the new ones.

Trouble Shooting

Problem	Possible Cause	Solution
The UPS LCD does not perform expected runtime.	Do not set the UPS to recognize the battery pack(s).	By pressing the display toggle to select functions. Then, set up the correct battery pack numbers. The default setting is 0.
The battery pack does not work.	Batteries are not fully charged.	Allow the battery pack to charge for 24 hours. Do not expect full runtime during this initial charge period.
		Specified battery pack models can use AC to shorten charge time.
	The fuse blew.	Contact CyberPower Systems.
Open the cover on the rear panel and replace a new fuse.		

Customer Service and Warranty

If the battery pack requests further service, please refer to the following information:

1. Call us at (877) 297-6937 or write to us at Cyber Power Systems (USA), Inc., 4241 12th Ave. E., STE 400, Shakopee, MN 55379 or send us an e-mail message at sales@cpsww.com for instructions.
2. When you contact CyberPower, identify the Product, the Purchase Date, and the item(s) of Connected Equipment. Have information on all applicable insurance or other resources of recovery/ payment that are available to the Initial Customer and Request a Claim Number.
3. You must provide a dated Proof-of-Purchase receipt (or other proof of the original purchase) and provide a description of the defect.
4. Pack and ship the product to CyberPower and, if requested, the item(s) of Connected Equipment, a repair cost estimate for the damage to the Connected Equipment, and all claim forms that CyberPower provides to you. Show the Claim Number on the shipping label or include it with the product.

You must prepay all shipping costs, you are responsible for packaging and shipment, and you must pay the cost of the repair estimate.

Product Registration

CyberPower requests that you complete and return the Warranty Registration Card enclosed with the Product or register the Product at its website (www.cpsww.com) to establish that you are the Initial Customer of the Product, and therefore entitled coverage under the Limited Warranty and the Connected Equipment Guarantee (Registration is not required for coverage, but note: if you do not register your purchase, you will be required to provide proof of purchase).

Product Warranty

Limited Warranty and Connected Equipment Guarantee

Read the following terms and conditions carefully before using the CyberPower Battery Pack (the "Product"). By using the Product you consent to be bound by and become a party to the terms and conditions of this Limited Warranty and Connected Equipment Guarantee (together referred to as this "Warranty"). If you do not agree to the terms and conditions of this Warranty, you should return the Product for a full refund prior to using it.

Who Is Providing this Warranty?

CyberPower Systems (USA), Inc. /CyberPower Systems, Inc. provides this Limited Warranty.

What Does this Warranty Cover?

This warranty covers defects in materials and workmanship in the Product under normal use and conditions. It also covers equipment that was connected to the Product and damaged because of the failure of the Product.

What Is the Period of Coverage?

This warranty covers the Product for three years and connected equipment for as long as you own the Product.

Who Is Covered?

This warranty only covers the original purchaser. Coverage ends if you sell or otherwise transfer the Product.

How Do You Get Warranty Service?

1. Before contacting CyberPower, identify Your Product model number, the Purchase Date, and each item of Connected Equipment.
2. Email us at tech@cpsww.com or Call us at (877) 297-6937.
3. If your product requires warranty service you must provide a copy of your dated purchase receipt or invoice.

How Do You Open A Connected Equipment Claim?

1. Call us at (877) 297-6937 or write to us at Cyber Power Systems (USA), Inc., 4241 12th Ave. E., STE 400, Shakopee, MN 55379, or send us an e-mail message at claims@cpsww.com for instructions, within 10 days of the occurrence.
2. When you contact CyberPower, identify the Product, the Purchase Date, and the item(s) of Connected Equipment. Have information on all applicable insurance or other resources of recovery/payment that are available to the Initial Customer and Request a Claim Number.
3. You must provide a dated purchase receipt (or other proof of the original purchase) and provide a description of the damage to your connected equipment.
4. Pack and ship the product to CyberPower and, if requested, the item(s) of Connected Equipment, a repair cost estimate for the damage to the Connected Equipment, and all claim forms that CyberPower provides to you. Show the Claim Number on the shipping label or include it with the product. You must prepay all shipping costs, you are responsible for packaging and shipment, and you must pay the cost of the repair estimate.

How Long Do I Have To Make A Claim?

All claims must be made within ten days of the occurrence.

What Will We Do To Correct Problems?

CyberPower will inspect and examine the Product. If the Product is defective in material or workmanship, CyberPower will repair or replace it at CyberPower's expense, or, if CyberPower is unable to or decides not to repair or replace the Product (if defective) within a reasonable time, CyberPower will refund to you the full purchase price you paid for the Product (purchase receipt showing price paid is required). If it appears that our Product failed to protect any equipment plugged into it, we will also send you forms for making your claim for the connected equipment. We will repair or replace the equipment that was damaged because of the failure of our Product or pay you the fair market value (NOT REPLACEMENT COST) of the equipment at of the time of the damage. We will use Orion Blue Book, or another a third-party valuation guide, or eBay, craigslist, or other source to establish that amount.

Who Pays For Shipping?

We pay when we send items to you; you pay when you send items to us.

What Are Some Examples Of What This Warranty Does Not Cover?

1. This Warranty does not cover any software that was damaged or needs to be replaced due to the failure of the Product or any data that is lost as a result of the failure or the restoration of data or records, or the reinstallation of software.
2. This Warranty does not cover or apply to: misuse, modification, operation or storage outside environmental limits of the Product or the equipment connected to it, nor for damage while in transit or in storage, nor if there has been improper operation or maintenance, or use with items not designed or intended for use with the Product, such as laser printers, appliances, aquariums, medical or life support devices, etc.

What Other Limitations Apply?

The sole and exclusive remedies of the Initial Customer are those provided by this Warranty.

1. This Warranty does not apply unless the Product and the equipment that was connected to it were connected to properly wired and grounded outlets (including compliance with electrical and safety codes of the most current electrical code), without the use of any adapters or other connectors.
2. The Product must have been plugged directly into the power source and the equipment connected to the Product must be directly connected to the Product and not "daisy-chained" together in serial fashion with any extension cords, another Product or device similar to the Product, surge suppressor, or power tap. Any such installation voids the Limited Warranty.
3. The Product and equipment connected to it must have been used properly in a suitable and proper environment and in conformance with any license, instruction manual, or warnings provided with the Product and the equipment connected to it.
4. The Product must have been used at all times within the limitations on the Product's VA capacity.

The Product was designed to eliminate disrupting and damaging effects of momentary (less than 1ms) voltage spikes or impulses from lightning or other power transients. If it can be shown that a voltage spike lasting longer than 1ms has occurred, the occurrence will be deemed outside the rated capabilities of the Product and the Limited Warranty is void. CyberPower Does Not Cover or Undertake Any Liability in Any Event for Any of the Following:

1. Loss of or damage to data, records, or software or the restoration of data or records, or the reinstallation of software.
2. Damage from causes other than AC Power Line Transients, spikes, or surges on properly installed, grounded and code-compliant 120 volt power lines in the United States and Canada; transients, surges or spikes on standard telephone land lines, PBX telephone equipment lines or Base 10T Ethernet lines, when properly installed and connected. (This exclusion applies, for example, to fluctuations in data transmission or reception, by CATV or RF transmission or fluctuations, or by transients in such transmission.)
3. Damage from any circumstance described as excluded above with respect to the Product.
4. Damages from fire, flood, wind, rain, rising water, leakage or breakage of plumbing, abuse, misuse or alteration of either the product or the Connected Equipment.
5. CyberPower excludes any liability for personal injury under the Limited Warranty and Connected Equipment Guarantee. CyberPower excludes any liability for direct, indirect, special, incidental or consequential damages, whether for damage to or loss of property [EXCEPT FOR (AND ONLY FOR) the specific limited agreement of CyberPower to provide certain warranty benefits regarding "Connected Equipment" under this Warranty], loss of profits, business interruption, or loss of information or data. NOTE: Some States or Provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you.
6. The Product is not for use in high-risk activities or with aquariums. The Product is not designed or intended for use in hazardous environments requiring fail-safe performance, or for use in any circumstance in which the failure of the Product could lead directly to death, personal injury, or severe physical or property damage, or that would affect operation or safety of any medical or life support device (collectively, "High Risk Activities"). CyberPower expressly disclaims any express or implied warranty of fitness for High Risk Activities or with aquariums. CyberPower does not authorize use of any Product in any High Risk Activities or with Aquariums. ANY SUCH USE IS IMPROPER AND IS A MISUSE OF THE PRODUCT.

Where Can I Get More Information?

The application of the United Nations Convention of Contracts for the International Sale of Goods is expressly excluded.

CyberPower is the warrantor under this Limited Warranty.

Conformance Approvals

FCC Warning

WARNING!! This equipment has been tested and found to comply with the limits for a Class A Digital Device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Any special accessories needed for compliance must be specified in the instruction.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The Class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulation.
Cet appareil numérique de la class A respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

Need Additional Help?

Feel free to contact our Tech Support department with installation, troubleshooting, or general product questions.

CyberPower Technical Support

Phone: 1-952-403-9500 Toll-free: 1-877-297-6937

Email: tech@cpsww.com

Web: www.CPSww.com

Mail: 4241 12th Avenue E, Suite 400 Shakopee, MN 55379

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