

# CyberPower®

## USER'S MANUAL

### SMART APP SINEWAVE UPS SERIES

PR750RT2U	PR750RTXL2U
PR1000RT2U	PR1000RTXL2U
PR1500RT2U	PR1500RTXL2U
PR2000RT2U	PR2000RTXL2U
PR2200RT2U	PR2200RTXL2U
PR3000RT2U	PR3000RTXL2U



## PRODUCT REGISTRATION

Thank you for purchasing a CyberPower product. Please take a few minutes to register your product at [www.cyberpowersystems.com/registration](http://www.cyberpowersystems.com/registration). Registration certifies your product's warranty, confirms your ownership in the event of a product loss or theft and entitles you to free technical support. Register your product now to receive the benefits of CyberPower ownership.

## INTRODUCTIONS

The CyberPower Smart App Sinewave Uninterruptible Power Supply PR750RT2U/ PR1000RT2U/ PR1500RT2U/ PR2000RT2U/ PR2200RT2U/ PR3000RT2U/ PR750RTXL2U/ PR1000RTXL2U/ PR1500RTXL2U/ PR2000RTXL2U/ PR2200RTXL2U/ PR3000RTXL2U features 2430 Joules of surge protection, provides battery backup during power outages and is Active PFC compatible for safeguarding mission-critical servers, telecom equipment, VoIP and internetworking hardware that require seamless sine wave power. Its full Automatic Voltage Regulation (AVR) boost/buck technology delivers a consistent and clean AC power, protecting connected equipment and preventing costly business interruptions. This UPS is GreenPower UPS™ Bypass circuitry patented to save on energy costs by reducing energy consumption and heat buildup.

The UPS unit incorporates microprocessor-based full digital control and includes PowerPanel® Business software providing the user unsurpassed flexibility and control. An optional SNMP/HTTP Remote Management adapter (RMCARD) supports remote management and control of the machine through a standard web browser.

### AUTOMATIC VOLTAGE REGULATOR (AVR)

The incoming utility power may be damaging to important data and hardware, but with Automatic Voltage Regulation, the computer will not experience damaging voltage levels. The AVR automatically increases low or decreases high voltage to a safe and consistent output voltage.

### CyberPower GreenPower UPS™ Technology

CyberPower's patented GreenPower UPS™ with Bypass Technology are ENERGY STAR complainant ensuring lower power consumption and energy costs compared to conventional UPS models. Even when utility power is normal, conventional UPS models constantly pass power through a transformer. By contrast, under normal conditions the advanced circuitry of a GreenPower UPS™ bypasses the transformer. As a result, the power efficiency is significantly increased while decreasing waste heat, using less energy, and reducing energy costs.

When an abnormal power condition occurs, the GreenPower UPS™ automatically runs power through its transformer to regulate voltage and provide "safe" power. Since utility power is normal over 88% of the time, the GreenPower UPS™ operates primarily in its efficient bypass mode.

The GreenPower UPS™ is also manufactured in accordance with the Restriction on Hazardous Substances (RoHS) directive making it one of the most environmentally-friendly on the market today.



## IMPORTANT SAFETY INSTRUCTIONS (SAVE THESE INSTRUCTIONS)

This manual contains important instructions that should be followed during installation and maintenance of the UPS and batteries. Please read and follow all instructions thoroughly before and during the installation and operation of the product.

**CAUTION!** The UPS must be connected to a grounded AC power outlet with fuse or circuit breaker protection. DO NOT plug the UPS into an outlet that is not grounded. If you need to de-energize this equipment, turn off and unplug the UPS.

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

**CAUTION!** To prevent the risk of fire or electric shock, install in a temperature and humidity controlled indoor area, free of conductive contaminants. Please see specifications for acceptable temperature and humidity range.

**CAUTION!** For pluggable equipment, the socket-outlet shall be installed near the equipment and shall be easily accessible.

**CAUTION!** To reduce the risk of electric shock, do not remove the cover, except to service the battery. There are no serviceable parts inside, except for the battery.

**CAUTION!** To avoid electrical shock, turn off the unit and unplug it from the AC power source before servicing the battery or installing a computer component.

**CAUTION!** When installing the equipment, ensure that the sum of the leakage current of the UPS and the connected equipment does not exceed 3.5mA.

**CAUTION!** Do not unplug the unit from AC Power during operation, as this will invalidate the protective ground insulation.

**CAUTION!** To reduce the risk of fire, connect only to a circuit provided with 20 amperes maximum branch circuit overcurrent protection in accordance with the National Electric Code, ANSI/NFPA 70. (PR750RT2U/ PR1000RT2U/ PR1500RT2U/ PR2000RT2U/ PR750RTL2U/ PR1000RTL2U/ PR1500RTL2U/ PR2000RTL2U)

**CAUTION!** To reduce the risk of fire, connect only to a circuit provided with 30 amperes maximum branch circuit overcurrent protection in accordance with the National Electric Code, ANSI/NFPA 70. (PR2200RT2U/ PR3000RT2U/ PR2200RTL2U/ PR3000RTL2U)

**CAUTION! DO NOT USE FOR MEDICAL OR LIFE SUPPORT EQUIPMENT! DO NOT use in any circumstance that would affect operation or safety of any life support equipment, with any medical applications, or patient care.**

**CAUTION! DO NOT USE WITH OR NEAR AQUARIUMS!** To reduce the risk of fire, do not use with or near aquariums. Condensation from the aquarium can come in contact with metal electrical contacts and cause the machine to short out.

**CAUTION! DO NOT INSTALL THE UPS WHERE IT WOULD BE EXPOSED TO DIRECT SUNLIGHT OR NEAR A STRONG HEAT SOURCE!**

**CAUTION! DO NOT BLOCK OFF VENTILATION OPENINGS AROUND THE HOUSING!**

**CAUTION! DO NOT USE THE UPS ON ANY TRANSPORTATION!** To reduce the risk of fire or electric shock, do not use the unit on any transportation such as airplanes or ships. The effect of shock or vibration caused during transit and the damp environment can cause the unit to short out.

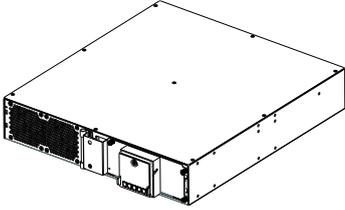
**CAUTION!** Dispose of or recycle the UPS after the end of its life, it should be in accordance with local regulations.

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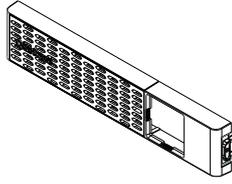
# UNPACKING

When you receive the unit, the package should contain the following items:

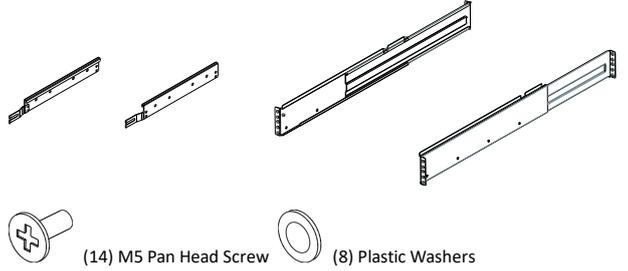
## 1. UPS Unit



## 2. Faceplate



## 3. Rail Kit CP2RAIL02

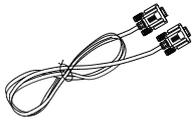


Note: It is available for PR3000RT2U/ PR1500RTXL2U/ PR2000RTXL2U/ PR2200RTXL2U/ PR3000RTXL2U.

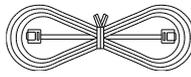
## 4. Management Cable



(1) USB Cable



(1) Serial Cable



(1) EPO Cable

## 5. User's Manual



## 6. Mechanical Accessory



(2) Rack-Mount Bracket – CPEAR04



(2) Rack-Mount Handle



(1) Tower Baseplate



(12) Dust Cover



(4) M5 Truss Head Screw



(8) M5 Flat Head Screw



(4) M4 Flat Head Screw



(4) Rubber Foot



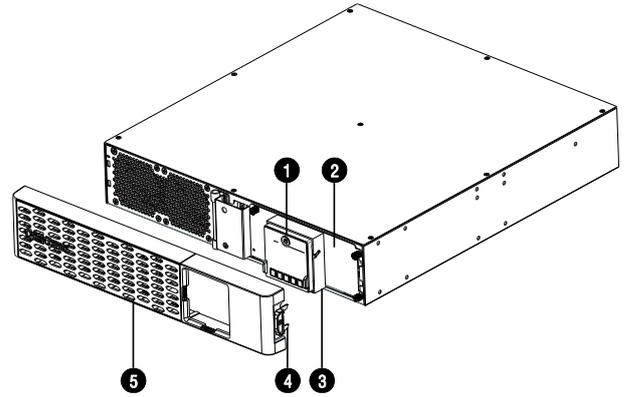
(4) M4 Round Head Screw

# PRODUCT OVERVIEW

## BASIC CONFIGURATION

### Front Panel

1. Power Switch
2. Toolless Battery Access Door
3. LCD Module
4. Front Panel Access Tabs
5. Faceplate



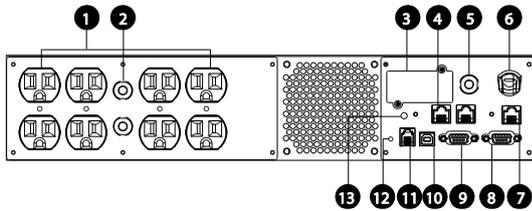
### Rear Panel

- |  |  |
|--|--|
| <ol style="list-style-type: none"> <li>1. Battery Backed and Surge Protected Outlet</li> <li>2. Output Circuit Breaker</li> <li>3. SNMP/HTTP Network Slot</li> <li>4. Surge Protected Communication Ports (RJ45)</li> <li>5. Input Circuit Breaker</li> <li>6. AC Inlet</li> <li>7. BM/ENV Port</li> </ol> | <ol style="list-style-type: none"> <li>8. Dry Contact</li> <li>9. Serial Port</li> <li>10. USB Port</li> <li>11. EPO/ROO Port</li> <li>12. TVSS Screw</li> <li>13. Wiring Fault Indicator</li> <li>14. Extended Battery Module Connector Socket</li> </ol> |
|--|--|

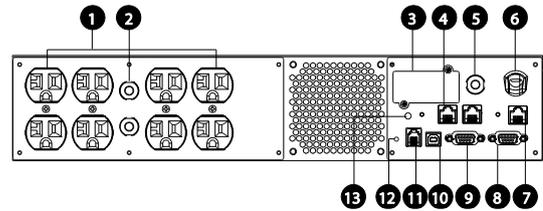
### BM/ENV Port

Connection port for built-in battery management module on extended battery module. The port also supports the CyberPower environment sensor.

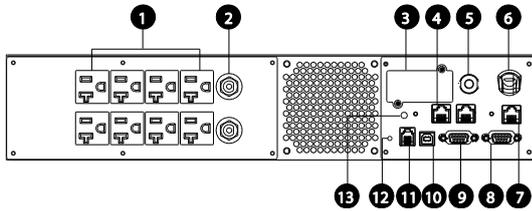
PR750RT2U / PR1000RT2U / PR1500RT2U



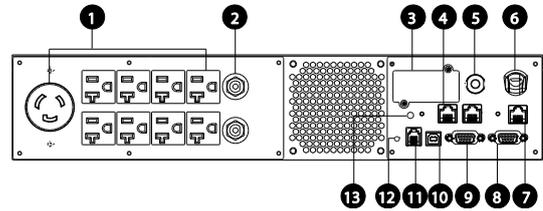
PR2000RT2U



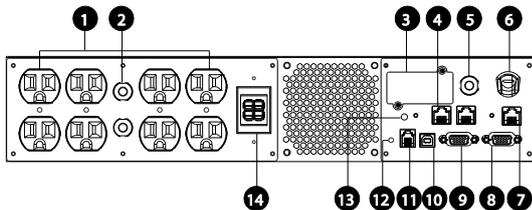
PR2200RT2U



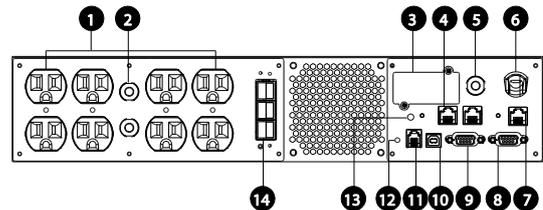
PR3000RT2U



PR750RTL2U / PR1000RTL2U

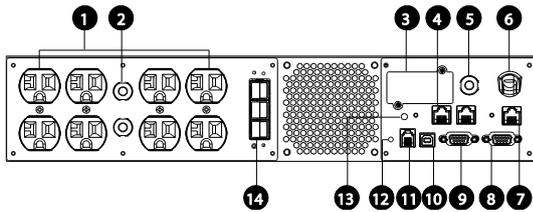


PR1500RTL2U

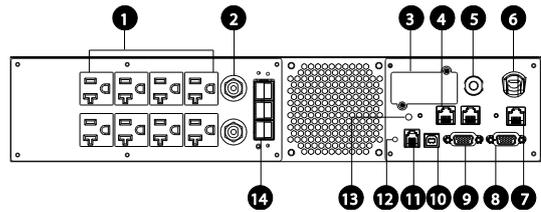


## BASIC CONFIGURATION (continued)

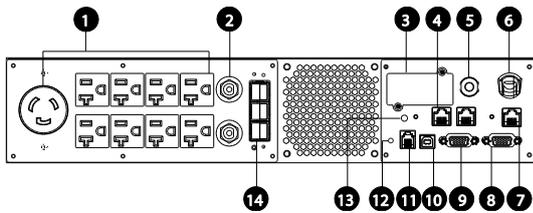
PR2000RTXL2U



PR2200RTXL2U



PR3000RTXL2U



## INSTALLATION

The product is designed for tower installation and rack installation for 2-post rack and 4-post rack. Read and follow the procedures thoroughly before and during your installation of the product.

The installation videos are available online. Scan the QR code below for detailed information.

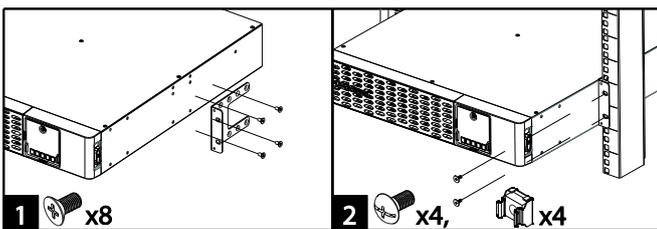
### Preparation

**CAUTION!** It is strongly recommended to have an additional person assist this installation process if the product is heavy.

**CAUTION!** It is strongly recommended that the 2 post rack be bolted to the floor prior to the installation of the product.

1. Remove all equipment connected to the product.
2. Make sure the product is disconnected from AC power source.
3. Remove internal batteries to reduce weight of the unit before the installation. Refer to BATTERY REPLACEMENT section for instructions.

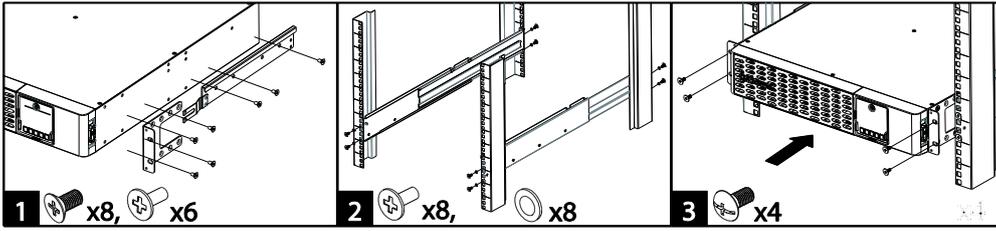
### Rack Installation for 2-post Rack



1. Attach the brackets with provided M5 flat head screws.
2. Affix the product to the rack with suitable M5/M6 screws and cage nuts. (M5 trust head screws are provided with the product in the mechanical accessory box.)

## INSTALLATION (continued)

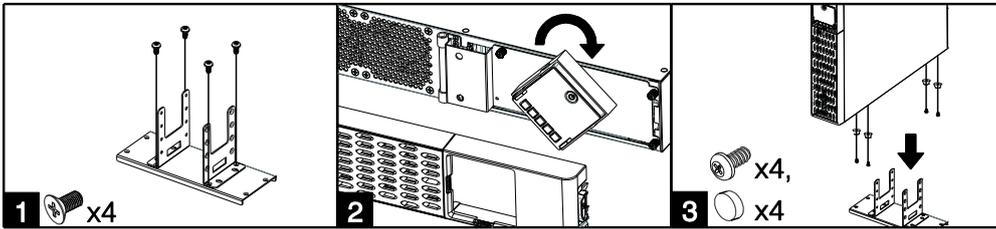
### Rack Installation for 4-post Rack



1. Use the provided M5 flat head screws to attach the brackets and provided M5 pan head screws for hanging brackets.
2. Screw the hanging rails to the rack with provided M5 pan head screws and plastic washers.
3. Lift the product upon the hanging rails and slide the unit into the rack. Affix the product to the rack with provided M5 truss head screws. If handles are needed, affix them to the brackets with M4 flat head screws.

Note: The Rail Kit is included for selected models. See UNPACKING section. For other models, it is also available for purchase. Part number CP2RAIL02.

### Tower Installation



1. Attach the brackets to the baseplate with the provided M4 flat head screws.
2. Remove the faceplate and rotate the LCD module, then re-install the faceplate.
3. Screw the rubber feet with provided M4 round head screws and then put the UPS onto the assembled tower stand. You can also put the dust covers in the screw holes on the top side of the UPS to prevent dust from falling into the unit.

## BASIC OPERATION

### Normal Use

1. Connect equipment to the outlets on the rear panel of UPS.
2. Plug the UPS into a 2 pole, 3 wire grounded receptacle/ wall outlet.
3. Press the power switch on LCD module once. The LCD screen will light up and show "UPS On/Off" on the first line. Use the Up/Down button to select "On" or "Delay On" and then press the Enter button to turn on the UPS. The LCD screen will show CyberPower in the first line and the UPS model in the second line. Then the Online or On Battery Indicator on the LCD module lights up, indicating the UPS is operating from utility or battery.
4. To turn off the UPS, press the power switch on LCD module once. The LCD screen will light up and show "UPS On/Off" on the first line. Use the Up/Down button to select "Off" or "Delay Off" and then press the Enter button to turn off the UPS. The LCD screen will show "Goodbye" and all the indicators will be off.

**IMPORTANT!** For first time usage, plug your UPS into an AC outlet to disable cold start protection. Otherwise your UPS will not turn on.

**IMPORTANT!** Do not use an adapter, line conditioner or other surge protection device between the wall outlet and the UPS. Use of such a device may impede proper operation of the UPS.

Be aware of the following statements:

- A. Your UPS may be used immediately upon receipt. However, charging the battery for at least 12 hours is recommended to ensure the battery reaches its maximum charge. Charge loss may occur during shipping and storage. To recharge the battery, simply leave the unit plugged into an AC outlet. The unit will charge in either the on or off state.

## BASIC OPERATION (continued)

- B. To maintain optimal battery charge, leave the UPS plugged into an AC outlet at all times.
- C. DO NOT plug a laser printer, copier, space heater, vacuum, paper shredder, pumps or other large electrical device to the UPS. The power demands of these devices will possibly overload and damage your UPS.
- D. Always plug the UPS into a 2 pole, 3 wire grounded receptacle/ wall outlet. Make sure the wall branch outlet is protected by a fuse or circuit breaker and does not service equipment with large electrical demands, e.g. air conditioner, refrigerator, copier, etc. Avoid using extension cords.
- E. To prevent the risk of electric shock, follow the steps to ground the UPS:
  - (a) Connect an earth wire to the TVSS screw on the rear panel of UPS.
  - (b) Connect another side of the earth wire to Earth.
- F. If your UPS freezes, you can do a hard reboot as below steps.
  - (a) Press and hold the power switch on the LCD module for around 10 seconds, the UPS will be forcibly shut down. All indicators, LCD screen and output will be off immediately.
  - (b) Slightly press the power switch on LCD module once. The LCD screen will light up and show "UPS On/Off" on the first line. Use the Up/Down button to select "On" or "Delay On" and then press the Enter button to turn on the UPS. The LCD screen will show CyberPower in the first line and the UPS model in the second line. Then the Online or On Battery Indicator on the LCD module lights up, indicating the UPS is operating from utility or battery.

Note: When the UPS is off, pressing and holding the power switch for around 10 seconds cannot turn on the UPS even though the LCD screen will light up for a few seconds. Follow above steps to correctly turn on the product.

## CLEANING AND MAINTENANCE

**CAUTION!** To reduce the risk of electric shock, do not remove the cover except to service the battery. There are no user serviceable parts inside except for the battery. For battery replacement, please refer to BATTERY REPLACEMENT section.

**CAUTION!** Turn off the unit and unplug it from the AC power source before cleaning.

**CAUTION!** Never immerse the unit in water or other liquids. Only use a soft, slightly damp cloth to wipe the surface of the unit. Do not use a spray directly to clean or disinfect the unit.

To store the product for an extended period, cover it and store with the battery fully charged. While in storage, recharge the battery every three months to ensure battery life.

## OPERATION AND STORAGE ENVIRONMENT

To prevent risk of fire or electric shock, install or place the unit in a temperature and humidity controlled indoor area, free of conductive contaminants.

Operation	Temperature	32°F – 104°F / 0°C – 40°C
	Relative Humidity	0% – 95% Non-condensing
	Elevation	0 – 9,843 feet / 0 – 3,000 meters
Storage	Temperature	5°F – 113°F / -15°C – 45°C
	Relative Humidity	0% – 95% Non-condensing
	Elevation	0 – 49,213 feet / 0 – 15,000 meters

## DATA LINE PROTECTION

The surge protected communication ports (RJ45) are used to prevent power surges that travel through Ethernet lines from causing damage to electronics. Connect the Ethernet line from wall jack outlet to the surge protected communication port marked "IN" of the UPS. Then, connect another Ethernet line from surge protected communication port marked "OUT" of the UPS to the network device.

## NETWORK OPERATION

Connect either the USB cable or Serial cable to the corresponding port on the UPS and on the computer with PowerPanel® Business software installed. PowerPanel® Business software is available on our website. Please go to [www.cyberpowersystems.com/products/software](http://www.cyberpowersystems.com/products/software) for the free download.

Note: USB and Serial port cannot be used simultaneously. Serial port will be disabled if the USB port is used.

Additionally, if you would like to control the UPS from a remote location, a CyberPower Remote Management Card (RMCARD) is required. For more information, visit [www.cyberpowersystems.com](http://www.cyberpowersystems.com).

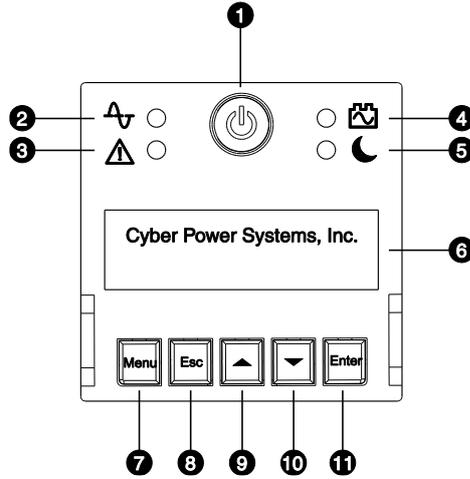
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# PRODUCT ADVANCED SETTING

## LCD OPERATION GUIDE

### Display Interface

1. Power Switch/Power on Indicator
2. Online Indicator
3. Fault/Warning Indicator
4. On Battery Indicator
5. Night Mode Indicator
6. Display Screen
7. Menu Button
8. Esc Button
9. Up Button
10. Down Button
11. Enter Button



### Basic Operation

Press Up/Down Button to scroll through the UPS status. Press Esc button to go back to top.

Menu	Item		
Status	• Operation Mode	• Estimated Runtime	• NCL Status
	• Input Voltage Information	• Battery Information	• UPS Temperature
	• Output Voltage Information	• Load Information	• Date & Time

### LCD Setting Guide

Press Menu Button to enter Setup Menu and use Up/Down Button to scroll through menus. Press Enter Button to go into the selected menu and use the Up/Down Button and Enter Button to select the setting item and to complete the setting. Esc Button is pressed to exit the submenu and go back to previous page.

Menu	Item		
Basic Setup	• Utility Quality	• Audible Alarm	• Extended Battery Module Quantity* *Select models
	• Sensitivity		
Night Mode	• Night Mode Switch	• Night Mode LCD Switch	• Night Mode Max Fan Speed
	• Night Mode Audible Alarm	• Night Mode LED Switch	
Outlet Control	• UPS Configuration	• NCL Configuration	
Test	• Self Test	• Alarm Test	• Battery Calibration
Logs	• Event 1-10		
About	• UPS Model Name	• UPS Firmware Version	• Service Port Number
	• UPS Serial Number	• LCD Firmware Version	• BM Status
	• Last Battery Change Date	• IP Address	• UPS Battery Information
	• Next Battery Change Date	• MAC ID	
Advanced Setup	• Output Voltage	• Battery Change Date	• Subnet Mask
	• Minimum Output Voltage	• Schedule Test	• Gateway
	• Maximum Output Voltage	• Date and Time	• Firmware Update**
	• LCD Hibernation	• Power Meter Rest	• Back to Default
	• Cycling Display	• IP Access	
	• Low Battery Threshold	• IP Address	**Only displayed in standby mode



## LCD OPERATION GUIDE (continued)

### Menu / Basic Setup

In order to better supply power to the connected equipment, it is recommended to check settings in this menu before you start using your UPS.

Item	Default	Option	Description
Utility Quality	Normal	<ul style="list-style-type: none"> <li>• Good</li> <li>• Normal</li> <li>• Poor</li> </ul>	<p>Select the voltage quality of the input utility power.</p> <p>If Good is selected, the UPS will be more sensitive to power quality and go to battery mode more often to supply the cleanest power to connected devices.</p> <p>If Poor is selected, the UPS will tolerate more power fluctuations and go to battery mode less often.</p>
		<ul style="list-style-type: none"> <li>• (Customized)</li> </ul>	<p>“Customized” shows up when Maximum/Minimum Output Voltage has been adjusted in Advanced Setup Menu or through software.</p>
Sensitivity	Medium	<ul style="list-style-type: none"> <li>• High</li> <li>• Medium</li> <li>• Low</li> </ul>	<p>Select the sensitivity level to power events for connected equipment.</p> <p>If the connected equipment is highly sensitive to power events, select High; the UPS will go to battery mode more often to provide the cleanest power.</p> <p>If the connected equipment can tolerate more power events, select Low; the UPS will go to battery mode less often.</p>
Audible Alarm	Normal	<ul style="list-style-type: none"> <li>• Normal</li> <li>• Mute on Battery</li> </ul>	<p>If Mute On Battery is selected, the UPS will not emit an alarm indicating the UPS is providing power from battery.</p>
Extended Battery Module Quantity*	0	<ul style="list-style-type: none"> <li>• 0-10</li> <li>• Auto-sensing</li> </ul>	<p>If Auto-sensing is selected, the UPS will change the numbers automatically.</p>

\*Select models

### Menu / Night Mode

Night Mode is an independent mode for users to quickly turn on/off alarms, LED, LCD and fan noise for specific usage and times. All setting items in Night Mode only perform when Night Mode Switch is set On and at the same time the Night Mode Indicator on the LCD module will illuminate.

Item	Default	Option	Description
Night Mode Switch	Off	<ul style="list-style-type: none"> <li>• On</li> <li>• Off</li> </ul>	<p>It is the main switch for Night Mode. All settings items will only apply when On is selected and Night Mode is active.</p>
Night Mode Audible Alarm	Mute on Battery	<ul style="list-style-type: none"> <li>• Normal</li> <li>• Mute on Battery</li> <li>• Completely Mute</li> </ul>	<p>If Mute On Battery is selected, the UPS will not emit reminding alarm indicating the UPS is providing power from battery.</p> <p>All alarms are disabled if Completely Mute is selected.</p>
Night Mode LCD Switch	Off	<ul style="list-style-type: none"> <li>• On</li> <li>• Off</li> </ul>	<p>If On is selected, the UPS will follow LCD Hibernation setting in Advanced Setup Menu.</p> <p>If Off is selected, the LCD screen will turn off after a few seconds of inactivity.</p> <p>Pressing any button will activate the LCD screen.</p>

## LCD OPERATION GUIDE (continued)

Item	Default	Option	Description
Night Mode LED Switch	Off	<ul style="list-style-type: none"> <li>• On</li> <li>• Off</li> </ul>	<p>If On is selected, the LED indicators work normally.</p> <p>If Off is selected, the LED indicators will turn off after a few seconds except for Fault Indicator. Pressing any button will activate the LED Indicators.</p>
Night Mode Maximum Fan Speed	Full	<ul style="list-style-type: none"> <li>• Full</li> <li>• High</li> <li>• Medium</li> <li>• Low</li> </ul>	Options are shown in bar chart. Select the maximum fan noise level you can accept in Line mode. This setting is also related to runtime in battery mode. UPS performs best backup time when Full is selected. Runtime decreases as maximum fan speed gets lower than Full.

### Menu / Outlet Control

Use this menu to configure UPS outlet performance. Outlets are divided into Critical (CL) and Non-Critical (NCL) outlets. Connect the mission critical devices into Critical outlets and nonessential equipment into NCL outlets. If equipment needs to be shut down or reboot in a specific order, plug the equipment into separate outlet groups.

Enter the submenu “Config UPS” to configure the total output of the UPS, including CL and NCL outlets. Enter “Config NCL” if you want to have additional settings for NCL outlets, for example, cut off the power provision to the nonessential equipment during a blackout to reserve runtime for mission critical devices.

Item	Default	Option	Description
Delay Turn On	4 seconds	<ul style="list-style-type: none"> <li>• 0-600 seconds</li> </ul>	The amount of time that the outlets will wait before actual startup.
Delay Turn Off	4 seconds	<ul style="list-style-type: none"> <li>• 0-600 seconds</li> </ul>	The amount of time that the outlets will wait before actual shutdown.
Reboot Duration	4 seconds	<ul style="list-style-type: none"> <li>• 4-300 seconds</li> </ul>	The amount of time that the outlets will remain off before the UPS restart itself.
Minimum Restored Capacity	0%	<ul style="list-style-type: none"> <li>• 0-100%</li> </ul>	It is the criteria for UPS to perform auto-restart as utility is restored. If battery capacity is higher than this setting, the auto-restart will be performed; otherwise, the UPS will keep charging the battery until battery capacity reaches that level.
Uptime on Battery	Disable	<ul style="list-style-type: none"> <li>• Enable: 5-1800 seconds</li> <li>• Disable</li> </ul>	Set the maximum runtime on battery mode. The UPS will shut down after the amount of time spent in battery mode has reached this setting. Make sure the estimated runtime is larger than this setting; otherwise, the UPS will still stop supplying power when it is running out of battery.
Reserved Runtime	Disable	<ul style="list-style-type: none"> <li>• Enable: 0-1800 seconds</li> <li>• Disable</li> </ul>	When the UPS is in battery mode, it will cut off output power when the remaining runtime reaches the level.
NCL Switch* *Can only be configured in the Submenu, NCL Configuration.	On	<ul style="list-style-type: none"> <li>• On</li> <li>• Delay On</li> <li>• Off</li> <li>• Delay Off</li> <li>• Reboot</li> <li>• Delay Reboot</li> </ul>	This is the main switch for NCL outlet groups.
Off on Overload *Can only be configured in the Submenu, NCL Configuration.	Disable	<ul style="list-style-type: none"> <li>• Enable</li> <li>• Disable</li> </ul>	NCL outlets will be turned off when the UPS is overloaded in battery mode if the item is enabled. NCL outlets will turn on automatically as utility is restored.

## LCD OPERATION GUIDE (continued)

### Menu / Test

This menu provides basic tests and calibration for users to check the current performance of the UPS.

Item	Default	Option	Description
Self Test	No	<ul style="list-style-type: none"> <li>• Yes</li> <li>• No</li> </ul>	Select Yes to order the UPS to quickly test the backup function by entering to battery mode, checking if it works. The test takes around 10 seconds.
Alarm Test	Short Test	<ul style="list-style-type: none"> <li>• Short Test</li> <li>• Continuous Test</li> </ul>	This item tests the alarm's audible warning and LED indicators' functionalities. Short test lasts 5 seconds. In continuous testing, press any button to stop the test.
Battery Calibration	No	<ul style="list-style-type: none"> <li>• Yes</li> <li>• No</li> </ul>	<p>If Yes is selected, the UPS will start discharging the battery and record the runtime to calibrate the information on estimated runtime. Before calibrate your runtime, please make sure the following conditions are not currently happening, or the calibration will fail:</p> <ul style="list-style-type: none"> <li>(a) Load &lt; 20%</li> <li>(b) Load variations</li> <li>(c) Low battery</li> <li>(d) Power failure</li> <li>(e) Charge &lt; 8 hours</li> </ul>

### Menu / Logs

All kinds of events are recorded and the UPS will show the last 10 events in this menu. Events are categorized into four sorts and shown in a capital letter in a single event log on the LCD screen: (F) Fault, (W) Warning, (S) Shutdown, and no letter for a normal transfer event.

### Menu / Advanced Setup

This menu contains more adjustable and detailed items for UPS advanced usage. Read the item descriptions below thoroughly before you change the settings.

Item	Default	Option	Description
Output Voltage	120V* *Select models and regions	<ul style="list-style-type: none"> <li>• 100V</li> <li>• 110V</li> <li>• 120V</li> <li>• 127V</li> </ul>	Select the AC output voltage on battery mode.
Minimum Output Voltage	100V: 89V 110V: 96V 120V: 105V 127V: 111V	<ul style="list-style-type: none"> <li>• 100V: 86-92V</li> <li>• 110V: 93-99V</li> <li>• 120V: 102-108V</li> <li>• 127V: 108-114V</li> </ul>	<p>Set the value lower if the utility voltage is usually low to avoid unnecessary battery usage, and vice versa.</p> <p>Make sure the connected equipment can work under the voltage condition.</p>
Maximum Output Voltage	100V: 111V 110V: 124V 120V: 135V 127V: 143V	<ul style="list-style-type: none"> <li>• 100V: 108-114V</li> <li>• 110V: 121-127V</li> <li>• 120V: 132-138V</li> <li>• 127V: 140-146V</li> </ul>	<p>Set the value lower if the utility voltage is usually low to avoid unnecessary battery usage, and vice versa.</p> <p>Make sure the connected equipment can work under the voltage condition.</p>
LCD Hibernation	After 1 minute	<ul style="list-style-type: none"> <li>• Never</li> <li>• After 1 minute</li> <li>• After 5 minutes</li> <li>• After 10 minutes</li> </ul>	After this amount of time with no activity, the LCD screen will shut off to save energy.

## LCD OPERATION GUIDE (continued)

Item	Default	Option	Description
Cycling Display	Never	<ul style="list-style-type: none"> <li>• Never</li> <li>• After 10 seconds</li> <li>• After 20 seconds</li> <li>• After 30 seconds</li> </ul>	After this amount of time with no activity, UPS will start cycling the status information on LCD screen.
Low Battery Threshold	300 seconds	<ul style="list-style-type: none"> <li>• 0-1800 seconds</li> </ul>	The UPS will emit an audible alarm, as a reminder that remaining runtime is reaching the threshold.
	35%	<ul style="list-style-type: none"> <li>• 20-65%</li> </ul>	The UPS will emit an audible alarm, as a reminder that remaining battery capacity is reaching the threshold.
Battery Change Date	---/----	<ul style="list-style-type: none"> <li>• Month/Year</li> </ul>	Optional setup information for users to record the installation date of battery pack. Reset the data when replacing new battery pack.
Schedule Test – On Startup	No	<ul style="list-style-type: none"> <li>• Yes</li> <li>• No</li> </ul>	If Yes is selected, the UPS will perform Self Test every time on startup.
Schedule Test – Frequency	Never	<ul style="list-style-type: none"> <li>• Never</li> <li>• Every 1 week</li> <li>• Every 2 weeks</li> <li>• Every 3 weeks</li> <li>• Every 4 weeks</li> </ul>	Select the amount of time that the UPS will perform Self Test periodically after startup.
Date and Time	----/--/-- --:--	<ul style="list-style-type: none"> <li>• Year/Month/Day Hour:Minute</li> </ul>	Set the Date and Time for use in data/event logs.
Power Meter Reset	No	<ul style="list-style-type: none"> <li>• Yes</li> <li>• No</li> </ul>	Select Yes to reset the value of Load Energy in Status menu.
IP Access	DHCP	<ul style="list-style-type: none"> <li>• DHCP</li> <li>• Manual IP Setup</li> </ul>	Select the way to access the IP/Subnet Mask/Gateway. This shows “No Web Device” when no RMCARD is installed.
IP Address	Auto-sensing	<ul style="list-style-type: none"> <li>• Auto-sensing</li> <li>• Manual Key-in</li> </ul>	Change the IP Access setting to manual IP Setup and then this item can be adjusted manually. This shows “No Web Device” when no RMCARD is installed.
Subnet Mask	Auto-sensing	<ul style="list-style-type: none"> <li>• Auto-sensing</li> <li>• Manual Key-in</li> </ul>	Change the IP Access setting to manual IP Setup and then this item can be adjusted manually. This shows “No Web Device” when no RMCARD is installed.
Gateway	Auto-sensing	<ul style="list-style-type: none"> <li>• Auto-sensing</li> <li>• Manual Key-in</li> </ul>	Change the IP Access setting to manual IP Setup and then this item can be adjusted manually. This shows “No Web Device” when no RMCARD is installed.
Firmware Update* *Only displayed in Standby Mode	No	<ul style="list-style-type: none"> <li>• Yes</li> <li>• No</li> </ul>	Select Yes to update the firmware of UPS in Standby Mode.
Back to Default	No	<ul style="list-style-type: none"> <li>• Yes</li> <li>• No</li> </ul>	Select Yes to restore the UPS factory default settings.

Fault Warning Display and Alarm

The following table shows the fault and warning indications of the UPS. The warning message cycles when the UPS is still turned on. Refer to the error code below and take necessary measures.

After the UPS shuts down or is turned off manually, the error message could disappear but the event records can be found in the Log Menu. To safely check the logs, press the power switch once and then press the Esc button to enter another operation mode – Standby Mode. Press Menu button and go to Log Menu to have a check.

Note: When the UPS is in Standby Mode, it does not have output. All indicators will not illuminate and only the LCD screen lights up when the UPS is operated. To leave the Standby Mode, refer to BASIC OPERATION section to turn on the UPS. Or, you can disconnect the UPS from the AC power source, wait for a minute, and then UPS will completely become off.

Display Screen Line 1	Display Screen Line 2	LED Indicator	Alarm
UPS Fault!	E01-Overcharge: Contact CyberPower for repair.		Constant alarm*
UPS Fault!	E03-No Charge: Contact CyberPower for repair.		Constant alarm*
UPS Off!	E20-Output Short: Connected equipment may have problems, remove them and check.		Constant alarm*
UPS Off!	E21-Output Short: Connected equipment may have problems, remove them and check.		Constant alarm*
Warning! / UPS Off!	E22-Overload: Unplug at least one connected device.		Constant alarm*
UPS Off!	E25-EPO: Check the EPO connector status.	-	-
Warning!	E27-Fan Fail(FR): Contact CyberPower for repair.		-
Warning!	E27-Fan Fail(FL): Contact CyberPower for repair.		-
Warning!	E29-Fan Fail (B): Contact CyberPower for repair.		-
Warning!	Battery Missing: Check battery wiring and condition.	 (Flashes)	Beeps once every 2 seconds for a period of 30 seconds
Warning!	Battery Defect: Check battery wiring and condition.	 (Flashes)	Beeps once every 2 seconds for a period of 30 seconds
Warning!	Service Battery: Batteries have reached recommended maintenance period.	-	-

\*Press any button to cancel the constant alarm.

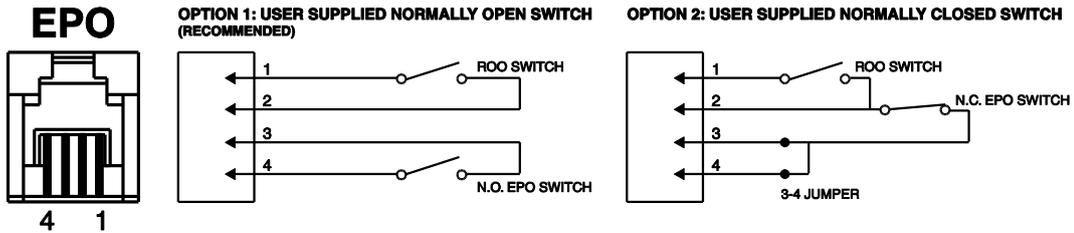
## EPO AND ROO CONFIGURATION

The Emergency Power Off (EPO) port is a safety feature that can be used to immediately shut down the UPS and cut off its power supply to connected equipment. It is necessary to manually press the power switch on the LCD module to restart the UPS and reapply power to connected equipment.

The Remote On/Off (ROO) shares the same port with EPO and those two functions can be used at the same time. ROO is a remote power control function, which allows users not only to power on but also power off the UPS in a remote location.

### Installation

1. Verify the UPS is off and unplugged.
2. The EPO/ROO interface is an IEC 60950 safety extra low voltage (SELV) circuit. Follow the appropriate circuit diagram below to wire the provided EPO cable to your EPO/ROO configuration. Connect isolated dry contacts and use ONLY latching switch.



3. After wiring, make sure the external EPO/ROO switch is not activated to enable UPS output.
4. Plug the UPS into an AC outlet and turn the UPS on via power switch on the LCD module.
5. Activate the external EPO/ROO switch to test the function. Check the status change of UPS from its LCD module.
6. For EPO user: De-activate the external EPO switch and restart the UPS via power switch on the LCD model.  
For ROO user: Press the external ROO switch again to restart the UPS.

### Restriction on ROO

- A. ROO can only turn on the UPS when utility is available.
- B. ROO becomes inactive if the UPS is shut down due to Fault, Low Battery or EPO; it is necessary to manually press the power switch on the LCD module to restart the UPS and reapply power to connected equipment.
- C. ROO is active only when UPS power status is the same as ROO circuit.\* If they are different, manually adjust the external ROO switch to synchronize current UPS status.

For instance, the UPS is turned off via power switch on the LCD module; however, the ROO switch stays in "on" position, which means the contact is closed. Users have to manually press the external ROO switch to "off" position, making contact open, to reactivate the ROO, verifying the power status shown on LCD module and ROO switch is on the same page. And then users can press the external ROO switch again to turn on the UPS.

\*Note: Power switch on the LCD module, software and external ROO switch can all turn on/off the UPS.

## DRY CONTACT

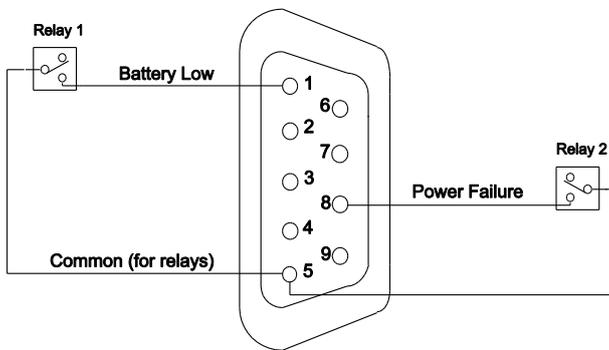
This UPS offers users the solution for UPS status monitoring via two output relays. Refer to Network Operation in this manual, verifying the UPS is connected to a computer with PowerPanel® Business software installed or is equipped with RMCARD. Follow below circuit to wire your dry contact port and choose your preferred monitoring status via those interfaces.

UPS status which can be monitored by dry contact is listed below:

UPS Status	UPS Conditions
Power Failure*	UPS detects utility failure.
Battery Low*	Battery capacity is lower than threshold.
Summary Alarm	UPS exits alarms due to Inverter Fault, Output Short, Over Temperature, Overload, Battery Overcharge, Low Battery, Battery Missing, Battery Defect and Wiring Fault.
UPS Fail	UPS has malfunctioned due to Inverter Fault, DC Power Fault, and Over Temperature.

\*Default settings of relay contacts are Power Failure and Battery Low (Normally Open).

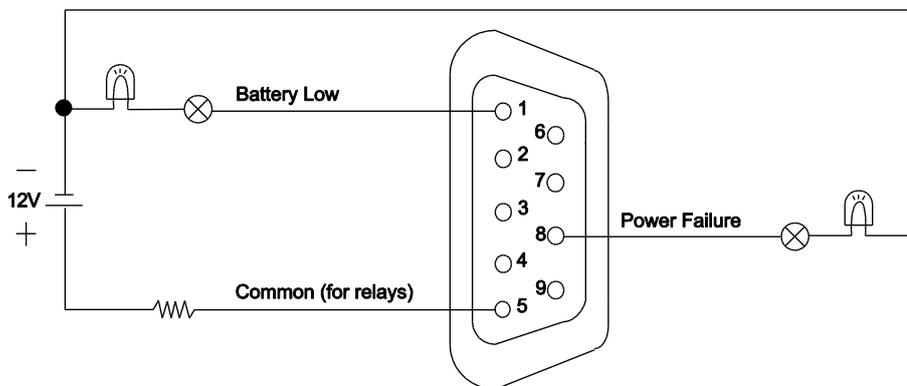
### Internal Circuit



Relay Status	UPS Status
Pin1 short to Pin5	Battery Low
Pin8 short to Pin5	Power Failure

### Example Application

Supply 12VDC to the Common contact and connect LEDs to the DB9 port Pin1 and Pin8. When UPS detects utility failure or when UPS battery capacity is lower than threshold, the connected LEDs will illuminate.



## BATTERY REPLACEMENT

Read and follow the important safety instructions before servicing the batteries. Visit CyberPower official website [www.cyberpowersystems.com](http://www.cyberpowersystems.com) or contact your dealer for more information on replacement batteries.

The battery replacement video is available online. Scan the QR code below for detailed information.

**CAUTION! RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.** When replacing batteries, replace with the same number of the following battery: CyberPower RB1250X4 for PR750RT2U, CyberPower RB1270X4H for PR1000RT2U/ PR750RTL2U/ PR1000RTL2U, CyberPower RB1290X4J for PR1500RT2U/ PR2000RT2U/ PR2200RT2U/ PR3000RT2U/ PR1500RTL2U/ PR2000RTL2U/ PR2200RTL2U/ PR3000RTL2U.

**CAUTION! Risk of Energy Hazard, 12V, maximum 6 Ampere-hour battery. (PR750RT2U)**

**CAUTION! Risk of Energy Hazard, 12V, maximum 9 Ampere-hour battery. (PR1000RT2U/ PR1500RT2U/ PR2000RT2U/ PR2200RT2U/ PR3000RT2U/ PR750RTL2U/ PR1000RTL2U/ PR1500RTL2U/ PR2000RTL2U/ PR2200RTL2U/ PR3000RTL2U)**

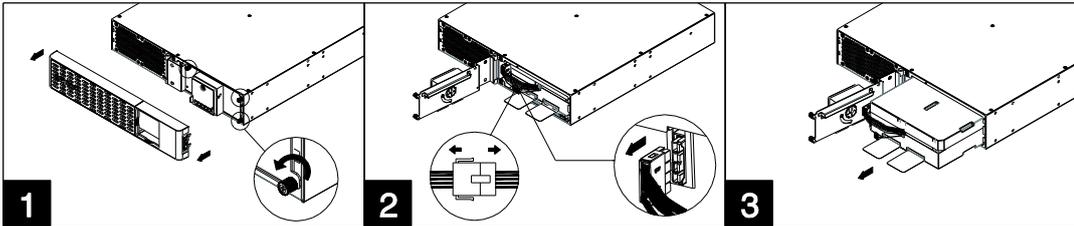
**CAUTION!** The used batteries are considered hazardous waste and must be disposed through recycling. Most retailers that sell lead-acid batteries collect used batteries for recycling, as required by local regulations. Do not dispose of batteries in a fire. The batteries may explode.

**CAUTION!** Do not open or mutilate batteries. Released material is harmful to the skin and eyes. It may be toxic.

Take the following precautions before replacing the battery:

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. Determine if battery is inadvertently grounded. If inadvertently grounded, remove source from ground. **CONTACT WITH ANY PART OF A GROUNDED BATTERY CAN RESULT IN ELECTRICAL SHOCK.** The likelihood of such shock can be reduced if such grounds are removed during installation and maintenance (applicable to equipment and remote battery supplies not having a grounded supply circuit).

### Battery Replacement Procedure



1. Remove faceplate and unscrew the thumbscrews on battery cover and then open the battery cover. Note: Thumbscrews are designed fixed on the battery cover, do not remove them from the metal cover.
2. Disconnect the battery and battery management module connector.
3. Insert the new battery pack. Assemble the connectors, thumbscrews and faceplate. Recharge the unit for at least 12 hours to ensure the UPS performs expected runtime.

Reminder: Battery Change Date is optional setup information for users to record the installation date of battery pack. It can be adjusted through LCD module in Advanced Setup Menu or through software.

## TECHNICAL SPECIFICATIONS

Model	PR750RT2U	PR1000RT2U	PR1500RT2U	PR2000RT2U	PR2200RT2U	PR3000RT2U
<b>General</b>						
UPS Topology	Line-interactive					
Energy Saving	GreenPower UPS™ Bypass Technology					
<b>Input</b>						
Nominal Input Voltage	100/110/120/125V				100/110/120V	
Input Voltage Range	For 110/120/125V systems: 75V – 155V; For 100V systems: 70V – 129V				For 110/120V systems: 75V – 155V; For 100V systems: 70V – 129V	
Input Frequency	50/60Hz +/- 3Hz (Auto-sensing)					
Plug Type	NEMA 5-15P			NEMA 5-20P		NEMA5-30P
Power Cord Length	10ft / 3m					
<b>Output</b>						
Power Capacity	750VA/750W	1000VA/1000W	1500VA/1500W*	2000VA/2000W*	2200VA/2200W	3000VA/3000W*
On Battery Output Voltage	100/110/120/125V +/- 5%				100/110/120V +/- 5%	
On Battery Output Frequency	50/60Hz +/- 1%					
On Battery Output Waveform	Sine Wave					
<b>Battery</b>						
Battery Type	Sealed Maintenance Free Lead Acid Battery					
Replacement Battery Pack (RBP)	RB1250X4	RB1270X4H	RB1290X4J			
RBP Quantity	1					
Typical Recharge Time	3 hours to 90% from total discharge under 100% load					
<b>Physical</b>						
Dimensions	2U Rack, 17.1" x 3.4" x 16.2" / 433 x 86.5 x 412 (mm)					2U Rack, 17.1" x 3.4" x 16.7" / 433 x 86.5 x 500 (mm)
Weight	43.2lbs / 19.6kg	50.1lbs / 22.7kg	55.8lbs / 25.3kg	59.8lbs / 27.1kg	59.8lbs / 27.1kg	76.5lbs / 34.7kg
<b>Conformance</b>						
Approvals	UL1778, CSA C22.2 No 107.3, FCC Class B, VCCI Class B, ENERGY STAR				UL1778, CSA C22.2 No 107.3, FCC Class A, VCCI Class A, ENERGY STAR	
Environmental	RoHS Compliant					

\*Refer below de-rating information for 100/110V systems:

PR1500RT2U: 1200VA/1200W@100V, 1350VA/1350W@110V; PR2000RT2U: 1600VA/1600W@100V, 1800VA/1800W@110V; PR3000RT2U: 2400VA/2400W@100V, 2700VA/2700W@110V.

## TECHNICAL SPECIFICATIONS (continued)

Model	PR750RTL2U	PR1000RTL2U	PR1500RTL2U	PR2000RTL2U	PR2200RTL2U	PR3000RTL2U
<b>General</b>						
UPS Topology	Line-interactive					
Energy Saving	GreenPower UPS™ Bypass Technology					
<b>Input</b>						
Nominal Input Voltage	100/110/120/125V				100/110/120V	
Input Voltage Range	For 110/120/125V systems: 75V – 155V; For 100V systems: 70V – 129V				For 110/120V systems: 75V – 155V; For 100V systems: 70V – 129V	
Input Frequency	50/60Hz +/- 3Hz (Auto-sensing)					
Plug Type	NEMA 5-15P			NEMA 5-20P		NEMA 5-30P
Power Cord Length	10ft / 3m					
<b>Output</b>						
Power Capacity	750VA/750W	1000VA/1000W	1500VA/1500W*	2000VA/2000W*	2200VA/2200W	3000VA/3000W*
On Battery Output Voltage	100/110/120/125V +/- 5%				100/110/120V +/- 5%	
On Battery Output Frequency	50/60Hz +/- 1%					
On Battery Output Waveform	Sine Wave					
<b>Battery</b>						
Battery Type	Sealed Maintenance Free Lead Acid Battery					
Replacement Battery Pack (RBP)	RB1270X4H			RB1290X4J		
RBP Quantity	1					
Typical Recharge Time	3 hours to 90% from total discharge under 100% load					
Extended Battery Module	BP48VP2U01			BP48VP2U02		
<b>Physical</b>						
Dimensions	2U Rack, 17.1" x 3.4" x 16.2" / 433 x 86.5 x 412 (mm)			2U Rack, 17.1" x 3.4" x 16.7" / 433 x 86.5 x 500 (mm)		
Weight	53.1lbs / 24.1kg	55.3lbs / 25.1kg	67.7lbs / 30.7kg	74.5lbs / 33.8kg	79.6lbs / 36.1kg	75.4lbs / 34.2kg
<b>Conformance</b>						
Approvals	UL1778, CSA C22.2 No 107.3, FCC Class B, VCCI Class B, ENERGY STAR				UL1778, CSA C22.2 No 107.3, FCC Class A, VCCI Class A, ENERGY STAR	
Environmental	RoHS Compliant					

\*Refer below de-rating information for 100/110V systems:

PR1500RTL2U: 1200VA/1200W@100V, 1350VA/1350W@110V; PR2000RTL2U: 1600VA/1600W@100V, 1800VA/1800W@110V; PR3000RTL2U: 2400VA/2400W@100V, 2700VA/2700W@110V.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
UPS does not provide power to equipment.	Circuit breaker has tripped due to an overload.	Turn the UPS off and unplug at least one piece of equipment. Wait 10 seconds, reset the circuit breaker and then turn the UPS on.
	Batteries are discharged.	Recharge the UPS for at least 3 hours.
	UPS has been damaged by a surge or spike.	Contact CyberPower for repair.
	Non-critical outlets have turned off automatically due to an overload in battery mode.	NCL outlets will be turned on automatically as utility is restored. To avoid recurring, check "Off on Overload" setting in Outlet Control Menu and disable the function.
UPS does not perform expected runtime.	Batteries are not fully charged.	Recharge the batteries by leaving the UPS plugged in.
	Batteries are degraded.	Contact CyberPower about replacement batteries.
	UPS does not recognize the correct quantity of Extended Battery Modules.	Adjust the setting of Extended Battery Module Quantity on your UPS to correct numbers via LCD module, PowerPanel® Business software or RMCARD interface (if installed).
UPS cannot be turned on.	UPS is not connected to an AC outlet.	The unit must be connected to a 100 – 120V or 100 – 125V outlet. (See TECHNICAL SPECIFICATIONS section)
	Batteries are worn out.	Contact CyberPower about replacement batteries.
	Mechanical problem.	Contact CyberPower for repair.
	Part of hard reboot process has been performed.	Long press of the power switch is to forcibly shut down the UPS when it freezes. When the UPS is off, long press of the power switch will light up the LCD screen for a few seconds but cannot turn on the UPS. Refer to BASIC OPERATION section to correctly turn on the UPS.
PowerPanel® Business is inactive.	The serial cable or USB cable is not connected.	Connect the cable to your UPS and computer. Use the cable that came with the unit if your own communication cable does not work.
	The serial cable or USB cable is connected to the wrong or defected port.	Try another port on the computer.
	UPS is not providing battery power.	Shut down the computer and tune the UPS off. Wait 10 seconds and turn the UPS back on to reset the unit.
Night mode fan speed control is inactive. Fans keep rotating in a higher speed level in line mode.	Ambient temperature is too high.	Turn off the unit and check the ventilation.
	Overload for the fan speed level.	Adjust the fan speed to a higher level, or turn the UPS off and unplug at least one piece of equipment. Wait 10 seconds and then turn the UPS on.
	Component fault, such as fans.	Call CyberPower for repair.
"Service Battery" message appears on LCD screen.		Perform a runtime calibration to verify battery capacity is sufficient and acceptable.
	The Battery Replacement Date has reached the recommended maintenance period.	If batteries have been recently replaced, then reset the Battery Replacement Date using PowerPanel® Business -Agent software or RMCARD interface; you can also reset the Battery Change Date in Advanced Setup Menu through LCD module.
"Fault" or "Error" message is appearing on LCD screen.	An internal malfunction may have occurred.	Please refer to Fault Warning Display and Alarm in the LCD OPERATION GUIDE section. If the fault persists, take note and contact CyberPower for repair.

## TROUBLESHOOTING (continued)

Problem	Possible Cause	Solution
	The size of generator is not suitable for current load.	The continuous generator capacity rating must be at least twice the total load, including the UPS and all other devices attached to the generator; otherwise, the generator may not be able to hold the voltage and frequency within the input tolerance of the UPS, causing the UPS switching from utility to battery mode back and forth. Please reduce the connected load or upgrade the generator.
UPS cannot work properly while attached to a generator.	The UPS is too sensitive to power events.	<p>The quality and stability of the generator power may not be as good as your local utility. The frequent blackouts and waveform distortions could lead the UPS to consider the input power inappropriate, switch to battery mode to provide clean power to attached load, draining the battery. Refer to LCD OPERATION GUIDE section to desensitize the UPS via LCD module, PowerPanel® Business software or RMCARD interface (if installed).</p> <p>Note: Lowering the sensitivity setting makes the UPS tolerate more power events, but it also increases the transfer time of the UPS. Some sensitive equipment cannot accept extended transfer time. Test to check if there is a load drop when the UPS is switching to battery mode.</p>

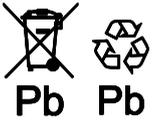
Additional troubleshooting information can be found at [www.cyberpowersystems.com](http://www.cyberpowersystems.com).

## DISPOSAL



The Waste Electrical and Electronic Equipment (WEEE) Directive aims to contribute to sustainable production and consumption by contributing to the efficient use of resources and the retrieval of secondary raw materials through re-use, recycling and other forms of recovery. The symbol on this product and/or its packaging indicates that the product must be disposed of separately from ordinary household wastes at its end of life. Contact your related WEEE management authority, local office, or your household waste disposal service about information on the recycling drop off site.

## BATTERY DISPOSAL



This product contains non-spillable lead acid batteries. The used batteries are considered hazardous waste and must be disposed through recycling. Do not dispose of used batteries with your ordinary household wastes. Dispose of the batteries according to the local regulations.

Note: Most retailers that sell lead-acid batteries collect used batteries for recycling, as required by the local regulations.

## REGULATORY COMPLIANCE

FCC Compliance Statement (PR750RT2U/ PR1000RT2U/ PR1500RT2U/ PR2000RT2U/ PR750RTXL2U/ PR1000RTXL2U/ PR1500RTXL2U/ PR2000RTXL2U)

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.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a 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. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

Important: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Canadian Compliance Statement (PR750RT2U/ PR1000RT2U/ PR1500RT2U/ PR2000RT2U/ PR750RTXL2U/ PR1000RTXL2U/ PR1500RTXL2U/ PR2000RTXL2U)

CAN ICES-3 (B)/NMB-3(B)

VCCI Compliance Statement (PR750RT2U/ PR1000RT2U/ PR1500RT2U/ PR2000RT2U/ PR750RTXL2U/ PR1000RTXL2U/ PR1500RTXL2U/ PR2000RTXL2U)

この装置は、クラス B 機器です。この装置は、家庭環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。取扱説明書に従って正しい取り扱いをして下さい。VCCI-B



FCC Compliance Statement (PR2200RT2U/ PR3000RT2U/ PR2200RTXL2U/ PR3000RTXL2U)

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.

Note: 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 when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, 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.

Important: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Canadian Compliance Statement (PR2200RT2U/ PR3000RT2U/ PR2200RTXL2U/ PR3000RTXL2U)

CAN ICES-3 (A)/NMB-3(A)

VCCI Compliance Statement (PR2200RT2U/ PR3000RT2U/ PR2200RTXL2U/ PR3000RTXL2U)

この装置は、クラス A 機器です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。VCCI-A



## REGULATORY COMPLIANCE (continued)

### DOE Compliance Statement

This device complies with Energy Conservation Standards of the Energy Conservation Program issued by the U.S. Department of Energy in accordance with 10 CFR Parts 429, 430 and 431, as appropriate, and the Energy Policy and Conservation Act, as amended, under the setup as described below.

1. Plug the UPS into a grounded AC outlet and turn on the unit via the power switch on the LCD module.
2. Follow below steps to switch on Night Mode settings to save energy.
  - (a) Press the Menu button to enter Setup Menu and use Up/Down button to scroll to Night Mode Menu. Press Enter button to go into the selected menu.
  - (b) Use the Up/Down button and Enter button to select the setting item and to complete the following setting.
    - i. Night Mode LCD Switch Off (Message on the display: LCD On/Off: Off)
    - ii. Night Mode LED Switch Off (Message on the display: LED On/Off: Off)
    - iii. Night Mode Switch On (Message on the display: Night Mode: On)
  - (c) Night Mode indicator (blue LED) on the LCD model will illuminate and the LCD and LED will turn off after a few seconds of inactivity if above settings are set correctly. Pressing any button will activate the LCD and LED.
3. Charge the batteries for at least 12 hours while the UPS is turned on to ensure the batteries are fully charged by leaving the UPS plugged into a grounded AC outlet under 0% load.

Note: (a) The first time you turn the UPS on, you will need to have it connected to AC power or it will not power up. (b) If the product has been used, press Menu button to enter to Setup Menu and use Up/Down button to scroll to Advanced Setup Menu. Press Enter button to go into the selected menu. Select the item "Back to Default", choose "Yes" to restore the default setup of the unit and then starts from setup 1 described above.

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## TECHNICAL SUPPORT

Visit our website at [www.cyberpowersystems.com/support](http://www.cyberpowersystems.com/support) to access extensive service and in-depth support to gain the information you need about power protection. Use the website links to find answers to common questions, obtain troubleshooting tips, learn about our power management software, view warranty details, and examine product literature. Our online, self-service resources are available 24/7. CyberPower also offers assistance from our expert team of sales, technical, and product support associates.

Our Technical Support team will be happy help you with technical questions during business hours.

Call us at (877) 297-6937; or submit a web ticket online at: [cyberpowersystems.com/support](http://cyberpowersystems.com/support).

Hours of Operation: Monday - Friday: 7:00am - 6:00pm CST

Cyber Power Systems (USA), Inc. 4241 12th Ave E., STE 400, Shakopee, MN 55379



Technical Support is available on our website.

Visit CyberPower at [www.cyberpowersystems.com](http://www.cyberpowersystems.com) to get more information.

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