INSTALLING YOUR UPS SYSTEM

UNPACKING
Inspect the UPS upon receipt. The box should contain the following.

1. UPS Unit
2. User’s Manual for UPS
3. Rack Mount Brackets
4. Mount Stand Plate
5. (1) Emergency Power Off Cable (gray)
7. Serial Interface Cable (DB9 -10) USB A-B Type Cable
8. (1) Warranty Registration Card
9. Rubber Buffer

OVERVIEW
PR3000LCDRT2U/PR3000LCDRTXL2U provides battery backup, automatic voltage regulation (AVR), and optimal performance of computers and other network equipment by ensuring constant renewable power. The PR3000LCDRT2U/PR3000LCDRTXL2U stabilizes inconsistent utility power. The incoming utility power may be damaging to important data devices, but if protected, can enhance equipment life. Automatic Voltage Regulation automatically increases or decreases voltage to a constant, computer safe 110V/120V. The unit powerful sealed-lead acid-batteries will provide power only if the incoming utility voltage stays below 110V or increases above 120V.

SYSTEM BLOCK DIAGRAM

HARDWARE INSTALLATION GUIDE
1. Your UPS may be used immediately upon receipt. However, recharging the battery for at least four hours is recommended to ensure that the battery’s maximum charge capacity is achieved. Charge loss may occur during shipping and storage. To recharge the battery, simply leave the unit plugged into an AC outlet until the unit will charge in both on the top and on the front panel.
2. If you have included the serial cable, either the serial cable or the USB cable to the corresponding port on the UPS and the computer. Note: If the USB port is used the serial port will be disabled. To control remote operation, the remote agent must be installed on the computer and on the PowerWALL® Business Edition Stand alone on the remaining computers.
3. Plug in the UPS unit. If only 1 pole is provided, make sure the wall outlet branch is protected by a fuse or circuit breaker and does not service equipment with large electric demands (e.g., conditioners refrigeration) or long cables (e.g., cord). Likewise, make sure the circuit breaker is depressed and then turn on the UPS.
4. If your UPS is equipped with an exchange feature, when the UPS is plugged into an AC outlet, the battery will automatically recharge.
5. To obtain optimal battery charge, leave the UPS plugged into an AC outlet all times.
6. To store your UPS for an extended period, close the cover and store with the battery fully charged. Recharge the battery every three to four months.
7. Professional Rack Mount UPS provide one serial port, one dry contact port, and one USB port to allow communication between the UPS and computers or equipment. The dry contact port (Serial Port II) is designed for monitoring and control. The dry contact port’s power demand is low enough to not stress the battery. When there is a power failure, the primary computer to which the UPS connects to Serial Port II or the USB port will start to shunt after a user controlled delay. PowerWALL® Business Edition Stand alone can have one or more open lines prior to shutting the system down and signal any configured slaves to shut down.
8. To ENPOWER® Emergency Power Off: The feature is used with EPO controllers. Use the provided gray cable to connect to an EPO contact switch. Follow the appropriate circuit diagram below to wire the cable to the EPO contact switch. EPO function is provided in the UPS, EPO remote switch which is a Push-Button installed computer room outside by a EPO contact switch, and not connect any other equipment.

OPTION 1: USER SUPPLIES NORMALLY CLOSED SWITCH

OPTION 2: USER SUPPLIES NORMALLY OPEN SWITCH

BASIC OPERATION
1. Power Switch
2. Power On Indicator
3. LCD Module Display
4. LCD Display Tab Button

BATTERY REPLACEMENT
Contact your dealer, or email tech@power.com. Refer to replacement battery pack number RB3802EF for PR3800LCDRT2U/PR3800LCDRTXL2U.

CAUTION!
Replacing batteries, replace with the same number of the following battery: HR8B-12FR for PR3800LCDRT2U/PR3800LCDRTXL2U.

CAUTION!
For model PR3800LCDRT2U/PR3800LCDRTXL2U, this UPS can be powered with a minimum of five extension battery packs, PR1231FR. As an alternative to the batteries, remove conductive jewelry such as chains, wrist watches, and rings. High energy through conductive materials could cause severe burns.

CAUTION!
During battery expansion, replace only by an approved type. Dispose of used battery according to the instructions.

CAUTION!
To reduce the risk of fire, connect only to a circuit provided with 30 amp maximum branch circuit overcurrent protection in accordance with the National Electrical Code.

CAUTION!
Use only the specified CyberPower replacement battery, or battery pack. See your dealer for details.

CAUTION!
The battery may prevent a risk of electrical shock. Do not dispose of batteries in a fire, as they may explode. Follow all local regulations regarding proper disposal of batteries.

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

CAUTION!
The battery may present a high risk of fire and electrical current and electrical shock.

Take the following precautions before replacing the battery:
1. Remove all watches, rings or other metal objects.
2. Only use tools with insulated handles.
3. Do not lay tools or metal parts on top of battery or any terminals.
4. Wear rubber gloves and boots.

Determine if the battery is inadvertently grounded. Check for free download.

CAUTION! Knowledgeable of batteries and their precautions. Servicing the battery should only be performed by trained personnel.

EPO/EMERGENCY POWER OFF: The feature is used with EPO controllers. To ENPOWER your UPS, simply leave the unit plugged into an AC outlet until the unit will charge in both on the top and on the front panel.

 input
output

LCD STATUS DEFINITION
The LCD display indicates a variety of UPS operational condations, an describes what the UPS is doing and what action is required to remove any UPS problems or to prevent any damage to connected equipment. In the event of a complete power loss, severe brownout, or over voltages, the UPS relies on its internal battery back-up to supply a continuous 120V output.

INPUT voltage meter: This meter measures the AC voltage that the UPS is receiving from the utility wall outlet. The INPUT voltage meter can be used as a diagnostic tool to identify poor quality input power. The UPS is not continuously designed to power for a static 120V output to supply equipment. In the event of a complete power loss, severe brownout, or over voltages, the UPS relies on its internal battery back-up to supply a continuous 120V output.

OUTPUT voltage meter: This meter measures the real input, the AC voltage that the UPS system is providing to the connected equipment, such as normal line mode, AVR and battery back-up mode. The OUTPUT voltage meter displays the status of the battery back-up outlets.

ESTIMATE RUN TIME: This displays the time line estimate of the UPS with the current battery capacity.

NORMAL: This icon appears when the UPS is functioning under normal conditions.

BATTERY: During a severe brownout or blackout, the icon appears and an alarm sounds (two short beeps followed by a pause) to indicate the UPS is operating from its internal batteries. During an extended brownout or blackout that does not shut down, the battery, continuous drain will shut up the UPS. If you own a UPS, you can remove power from your AC outlet and switch the UPS back to the battery to ensure that the battery is properly wired. The POWER button will show a single shaded segment, equating 20% battery capacity remaining indicating the UPS is operating from its internal batteries. If is occurs, you are recommended to store your UPS, and switch the UPS back to the battery to ensure that the battery is properly wired.

BATTERY CAPACITY: This meter displays the approximate charge level (as a percentage) of the UPS's internal battery. During a blackout or severe brownout the UPS switches to backup power the UPS. BATTERY CAPACITY icon appears and its charge level decreases.

LOAD CAPACITY: This display the approximate output load level (as a percentage) of the UPS's battery supplies.
The CyberPower GreenPower UPS™ technology

The CyberPower GreenPower UPS™ cuts UPS energy costs by up to 70% compared to the conventional UPS circuits. Conventional UPS systems pass power through a transformer to provide nominal output voltage to protected devices. By contrast, the GreenPower UPS™ inverter topologies are the transformer when utility power is normal and significantly increasing the power efficiency of the UPS. As a result, GreenPower™ UPS™ produces less heat and uses less cooling energy costs.

When utility power is abnormal, the GreenPower™ UPS™ operates like a normal UPS. Since utility power operates normally 80% of the time, the GreenPower™ UPS™ operates primarily in its cost-savings inverter mode.

LIMITED WARRANTY AND CONNECTED EQUIPMENT GUARANTEE

Refer the following terms and conditions carefully before using the CyberPower PR3000LCDRTXL2U/PR3000LCDRTX2UL2U ("the Product"). By using the Product, you agree to be bound by the Limited Warranty, and Connected Equipment Guarantee (together referred to as the "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 installation.

Who is Providing this Warranty?

CyberPower Systems (USA), Inc. ("CyberPower") 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 Service?

1. Call us at 877-297-6937 or write to Cyber Power Systems (USA), Inc., 4241 12th Ave. E., STE 400, Shakopee, MN 55379 or send us an e-mail message at datasheets@cyberpower.com for instructions.

2. When you contact CyberPower, identify the Product, the Purchase Date, and the serial number of Connected Equipment. Information has all relevant information on the purchase date and serial number to the ordering agent or customer's account 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 with a dated Proof-of-Purchase receipt to CyberPower and, if requested, the item(s) of Connected Equipment, a repair cost estimate for the damage to the Connected Equipment, and all data forms from the Connected Equipment to you. Show the Serial Number and Product Code on the repair forms. CyberPower will return repaired or replaced products to you for the shipping charge you paid for the Product (purchase receipt showing price paid is required).

What to Do If You Suspect Power Outages?

If the machine is in the Battery Mode, it enters Self Test.

1. Press and hold the On button for 4 seconds. When the icons blink, the value of the UPS version number.

2. The UPS will not turn on.

3. The UPS will not turn on at all. If the machine is in the Battery Mode, it enters Self Test.

4. Power/fault indicator is red.

5. When utility power is abnormal, the GreenPower™ UPS™ operates like a normal UPS. Since utility power operates normally 80% of the time, the GreenPower™ UPS™ operates primarily in its cost-savings inverter mode.

6. The Product is not for use in high risk environments.

What Other Limitations Apply?

1. The Warranty does not apply unless the Product and the equipment that was connected to it were correctly wired and grounded (including compliance with electrical and safety codes of the most current electrical codes), without the use of any adapters or other equipment.

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 the equipment must be properly connected to the power source.

3. The Product and equipment connected to it must be in proper working condition and in conformance with any instructions, instructions 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 of the Product's capacity.

What are the Limitations?

The sale and resale warranties of the Initial Customer are those provided by this Warranty.

The Product was designed to eliminate disrupting and damaging effects of momentary (less than 1ms) voltage spikes or impulses and single phase utility power
decreased to or decided not to repair or replace the Product (if defective) within a reasonable time, CyberPower will refund to you the purchase price, less a restocking charge of 15% of the purchase price.

For instructions.

To the extent permitted by law, you shall be solely responsible for any data that is lost or damage to the Connected Equipment, and all claim forms that CyberPower provides to you. Show the Serial Number and Product Code on the repair forms. CyberPower will return repaired or replaced products to you for the shipping charge you paid for the Product (purchase receipt showing price paid is required)

What Other Limitations Apply?

The warranty does not cover defects in materials and workmanship in the Product under normal use and conditions.

The Product does not contain any asbestos, lead, mercury, or other hazardous substances.

The Product is not for use in high risk environments.

The Product was designed to eliminate disrupting and damaging effects of momentary (less than 1ms) voltage spikes or impulses and single phase utility power.

The warranty does not cover defects in materials and workmanship in the Product under normal use and conditions.

The Product was not designed or intended for use in hazardous environments requiring radical performance and/or for use in any circumstance in which the failure of the equipment could lead 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, "Medical Devices").

The Product was designed to eliminate disrupting and damaging effects of momentary (less than 1ms) voltage spikes or impulses and single phase utility power.

For instructions.

To the extent permitted by law, you shall be solely responsible for any data that is lost or damage to the Connected Equipment, and all claim forms that CyberPower provides to you. Show the Serial Number and Product Code on the repair forms. CyberPower will return repaired or replaced products to you for the shipping charge you paid for the Product (purchase receipt showing price paid is required).