



Rack/Tower Extended Runtime Battery Packs

User's Manual

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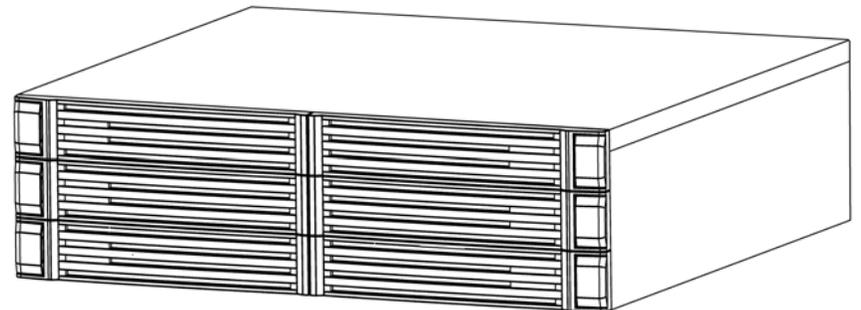


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Chapter 1: Introduction

Thank you for purchasing this power protection product. It has been designed and manufactured to provide many years of trouble free service. Please read this manual before installing your BPRTXL Battery Pack, models BP24RTEXTL, BP48RTEXTL, BP36RTEXTL, BP72RTEXTL as it provides important information that should be followed during the installation and the maintenance of the Battery Packs and batteries allowing you to correctly set up your system for the maximum safety and performance. Included is information on customer support and factory service, if it is required. If you experience a problem with the Battery Packs please refer to Obtaining Service section in this manual to collect enough information so that the Technical Support Department can rapidly assist you.

**IMPORTANT SAFETY INSTRUCTIONS
SAVE THESE INSTRUCTIONS !**

CAUTION! This Battery Pack series is ONLY intended to be installed in an indoor temperature controlled environment that is free of conductive contaminants. This Battery Pack series is not for use in a computer room as defined in the Standard for the Protection of Electronic Computer/Data Processing Equipment ANSI/NFPA 75. Select a location which will provide good air circulation for the Battery Pack and UPS at all times.

CAUTION! The maximum ambient operating temperature for this Battery Pack series is 40°C (“0 ~ 40°C” for Ambient Operation).

- The external vents and openings on the Battery Pack are provided for ventilation. To ensure reliable operation of the UPS and to protect the UPS from overheating, these vents and openings must not be blocked or covered. Do not insert any object into any of the vents or openings that may hinder the ventilation.
- Install the Battery Pack in a well ventilated area, away from excess moisture, heat, dust, flammable gas or explosives.
- Leave adequate space (at least 15cm) around all sides of the Battery Pack for proper ventilation.
- Do not mount the Battery Pack with its front or rear panel facing down at any angle.
- Before usage, you must allow the Battery Pack to adjust to room temperature (20°C~25°C or 68°F~77°F) for at least one hour to avoid moisture condensing inside the UPS.

WARNING: These Battery Packs contains potentially hazardous voltages. Do not attempt to disassemble the Battery Pack beyond the battery replacement procedure. These Battery Packs contain no user serviceable parts. Repairs and Battery replacement must be performed by **QUALIFIED SERVICE PERSONNEL ONLY**.

WARNING: Risk of Electrical Shock. Hazardous live parts inside these Battery Packs are energized from the battery.

WARNING: Qualified Service Personnel ONLY must perform the Installation and Servicing of these Battery Packs. MINUTEMAN accepts no liabilities and is not limited to: injury to the Service Personnel, or damages to; the Battery Pack, the UPS, or the connected equipment caused by the incorrect installation or servicing of the Battery Packs.

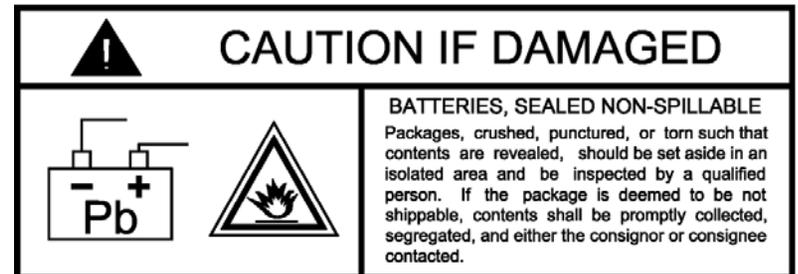
CAUTION! DO NOT USE THE MOUNTING BRACKETS TO LIFT THE BATTERY PACK. The mounting brackets are ONLY for securing the Battery Pack to the rack.

CAUTION! To de-energize the Battery Pack:

1. If the UPS is on press and release the Off/On button.
2. Disconnect the UPS from the wall outlet.
3. Turn off the DC breaker on the rear panel of the Battery Pack.
4. Disconnect the battery cable from the rear panel of the UPS.
5. To de-energize the Battery Pack completely, disconnect the batteries.

RECEIVING INSPECTION

Once you receive the product it should be visually inspected for damage that may have occurred in shipping. Immediately notify the carrier and place of purchase if any damage is found. Warranty claims for damage caused by the carrier will not be honored by the manufacturer. The packing materials that the product was shipped in were carefully designed to minimize any shipping damage. In the unlikely case that the product needs to be returned to the manufacturer, use the original packing material. Since the manufacturer is not responsible for shipping damage incurred when the product is returned, the original packing material is inexpensive insurance. **PLEASE SAVE THE PACKING MATERIALS!**



WARNING: Qualified Service Personnel ONLY must perform the Installation and Servicing of these Battery Packs. MINUTEMAN accepts no liabilities and is not limited to: injury to the Service Personnel, or damages to; the Battery Pack, the UPS, or the connected equipment caused by the incorrect installation or servicing of the Battery Packs. These Battery Packs MUST be operated with their respective UPS models, see the table below:

Model	BP24RTEXTL	BP48RTEXTL	BP36RTEXTL	BP72RTEXTL
UPS Model	ED1000RM2U ED1000RMT2U	ED1500RM2U ED2000RM2U ED1500RMT2U ED2000RMT2U	E750RTXL2U E1000RTXL2U E1500RTXL2U E1500RTXLT2U	E2000RTXL2U E3000RTXL2U E3000RTXLT2U ED3000RM2U ED3000RMT2U

NOTICE: This equipment has been tested and found to comply with the limits for a Class A computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules and the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference of the Canadian Department of Communications. These limits are designed to provide reasonable protection against such interference in a residential installation. This equipment generates and uses radio frequency and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, this equipment may cause interference to radio and television reception. If this equipment does cause 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:

- Re-orient the receiving antenna.
- Relocate the computer with respect to the receiver.
- Move the computer away from the receiver.
- Plug the computer into a different outlet so that the computer and receiver are on different branch circuits.
- Shielded communications interface cables must be used with this product.

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

Life Support Policy

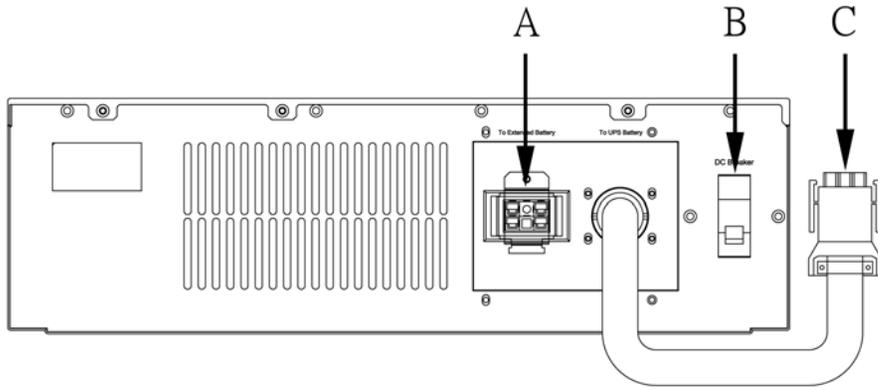
As a general policy, we do not recommend the use of any of our products in life support applications where failure or malfunction of the product can be reasonably expected to cause failure of the life support device or to significantly affect its safety or effectiveness. We do not recommend the use of any of our products in direct patient care. We will not knowingly sell our products for use in such applications unless it receives in writing assurances satisfactory to us that (a) the risks of injury or damage have been minimized, (b) the customer assumes all such risks, and (c) our liability is adequately protected under the circumstances.

Examples of devices considered to be life support devices are neonatal oxygen analyzers, nerve stimulators (whether used for anesthesia, pain relief, or other purposes), auto transfusion devices, blood pumps, defibrillators, arrhythmia detectors and alarms, pacemakers, hemodialysis systems, peritoneal dialysis systems, neonatal ventilator incubators, ventilators for both adults and infants, anesthesia ventilators, and infusion pumps as well as any other devices designated as "critical" by the United States FDA.

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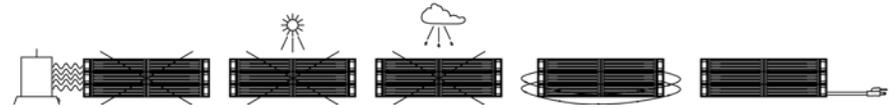
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Chapter 2: Rear Panel



- A. The External Battery connector is for Daisy Chaining additional Battery Packs.
- B. The DC Circuit Breaker connects and disconnects the DC bus voltage from the Battery Pack to the UPS. The DC Circuit Breaker will trip in the event of a DC over-current condition.
- C. The External Battery cable is for connecting the Battery Pack to the UPS or Daisy Chaining additional Battery Packs.

Chapter 3: Installation



This Battery Pack series is **ONLY** intended to be installed in an indoor temperature controlled environment that is free of conductive contaminants. **DO NOT** operate the Battery Pack in: extremely dusty and/or unclean areas, locations near heating devices, water or excessive humidity, or where the Battery Pack is exposed to direct sunlight. Select a location, which will provide good air circulation for the Battery Pack at all times. Route cables so they cannot be walked on or damaged. This Battery Pack series is not for use in a computer room as defined in the Standard for the Protection of Electronic Computer/Data Processing Equipment ANSI/NFPA 75. Typical battery life is 3 to 5 years. Environmental factors do affect battery life. High temperatures, poor ventilations and frequent, short duration discharges have a negative impact on battery life.

Operating Temperature (Max): 0 to 40 degrees C (+32 to +104 degrees F)
 Operating Elevation: 0 to 3,000m (0 to +10,000 ft)
 Operating and Storage Relative Humidity: 95%, non-condensing
 Storage Temperature: -15 to +45 degrees C (+5 to +113 degrees F)
 Storage Elevation: 0 to 15,000m (0 to +50,000 ft)

INSTALLATION

Be sure to read the installation placement and all the cautions before installing the Battery Pack. Place the Battery Pack in the final desired location and complete the rest of the installation procedure.

WARNING! These Battery Packs are extremely heavy. Any time the Battery Pack has to be handled be sure to use, enough personnel, strong supports and equipment to safely handle the Battery Pack.

NOTE: When using these Battery Packs, the UPS must be configured so that the UPS will report the correct estimated runtime on the LED/LCD screen and in the Power Monitoring software and/or the SNMP card. See the Power Monitoring software or the SNMP card's User's Manual to configure the UPS.

CAUTION! DO NOT USE THE MOUNTING BRACKETS TO LIFT THE BATTERY PACK. The mounting brackets are **ONLY** for securing the Battery Pack to the rack.

RACKMOUNT CONFIGURATION

The Battery Pack comes with mounting brackets and rails for the standard 19" (46.5cm) 4-post rack. The screws for mounting the Battery Pack to the rack are not included (screw size varies with rack size).

1. Mount the rails to the 4-post rack. (FIG. 1)
2. Locate the mounting bracket screw holes on the side panels of the Battery Pack, at the front of the Battery Pack. (FIG. 2)
3. Align the mounting bracket with the mounting bracket screw holes. (FIG. 2)
4. Attach the mounting bracket with the retaining screws. (FIG. 2)
5. Install the Battery Pack onto the Rails and secure the Battery Pack to the rack with the retaining screws. (FIG. 3) **WARNING:** Use two or more people when installing the Battery Pack. Use **CAUTION**, the Battery Pack is extremely heavy. Do not move the rack after the units have been installed. The rack maybe unstable due to the weight distribution.
6. The Rackmount Configuration is complete. See Connecting the Battery Pack.

FIG. 1

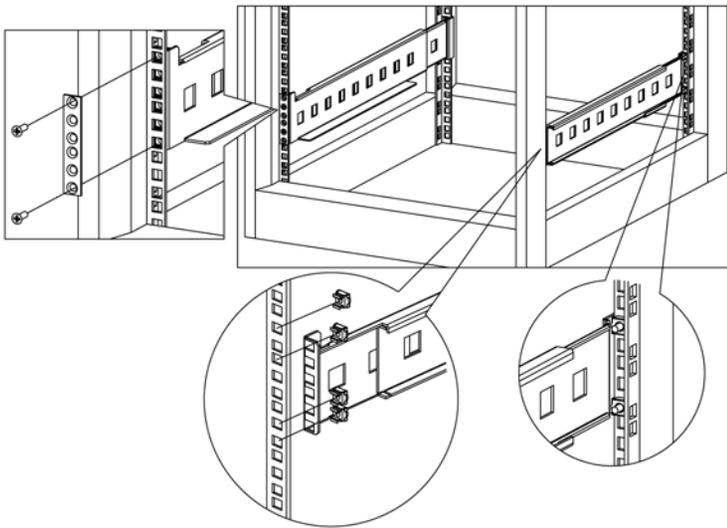


FIG. 2

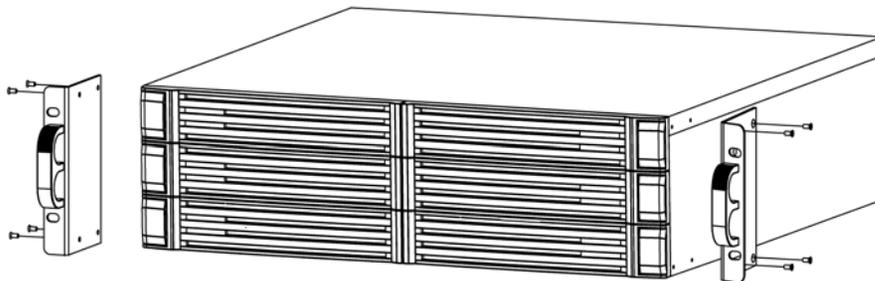
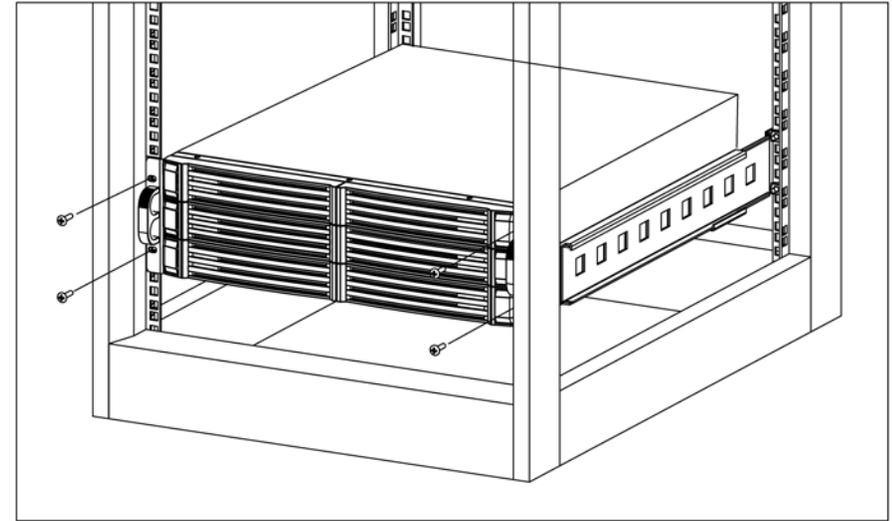


FIG. 3



TOWER CONFIGURATION

The tower configuration allows the user to install the Battery Pack in the up-right position next to the UPS. The tower brackets are provided with the Battery Pack. **WARNING:** Use two or more people when installing the Battery Pack. Use **CAUTION**, the Battery Pack is extremely heavy.

1. Once the location of the Battery Pack has been determined, lay the Battery Pack on its side. (FIG. 1)
2. Attached the tower brackets to the Battery Pack with the retaining screws. (FIG. 1)
3. Rotate the Battery Pack to the up-right position. Ensure the Battery Pack is stable. (FIG. 2)
4. The Tower Configuration is complete. See Connecting the Battery Pack.

FIG. 1

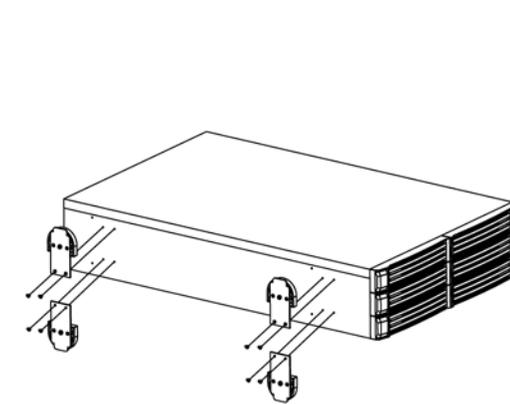
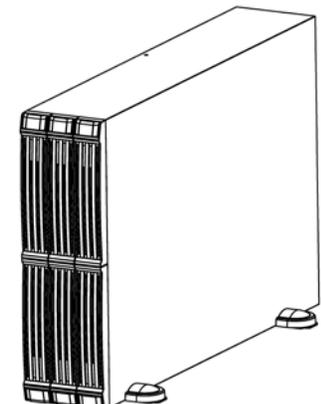


FIG. 2



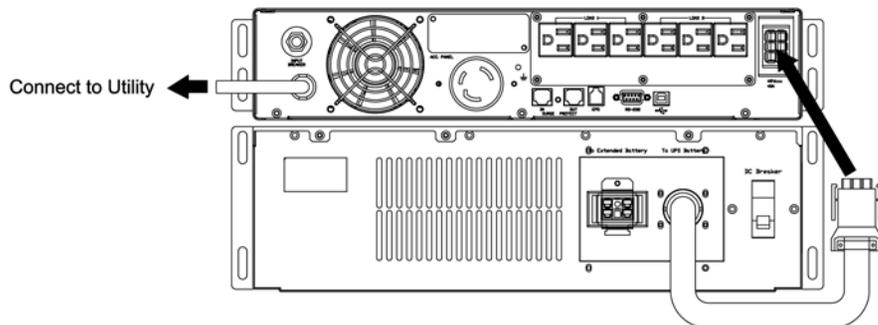
CONNECTING THE BATTERY PACK

(QUALIFIED SERVICE PERSONNEL ONLY)

NOTE: When using these Battery Packs, the UPS must be configured so that the UPS will report the correct estimated runtime on the LED/LCD screen and in the Power Monitoring software and/or the SNMP card. See the Power Monitoring software or the SNMP card's User's Manual to configure the UPS.

Model	Number of External Battery Packs to enter in the power monitoring software or the SNMP card
BP24RTEXTL	5
BP48RTEXTL	3
BP36RTEXTL	3
BP72RTEXTL	3

1. Be sure to read the installation placement procedure, all of the cautions and the safety precautions before connecting the Battery Pack(s).
2. Make sure that the DC circuit breaker on the rear panel of the Battery Pack is in the Off position. **CAUTION:** If the Battery Pack's DC circuit breaker is in the On position, the battery voltage will be present at the open end of the Battery Pack's external battery cable and external battery connector.
3. Turn the UPS off and disconnect the UPS's input power cord from the AC wall outlet.
4. Remove the External Battery Connector cover from the UPS's rear panel.
5. Verify, before connecting the Battery Pack's external battery cable into the UPS's external battery connector, that they mate red to red and black to black. **NOTE:** The red connector is the battery positive (+) and the black connector is the battery negative (-). Connect the external battery cable from the Battery Pack to the external battery connector on the UPS. **NOTE:** If connecting more than one Battery Pack see Daisy Chaining.
6. Turn the DC circuit breaker on the rear panel of the Battery Pack to the On position.
7. The Battery Packs are ready for normal operation, see the UPS User's Manual for the normal startup of the UPS.



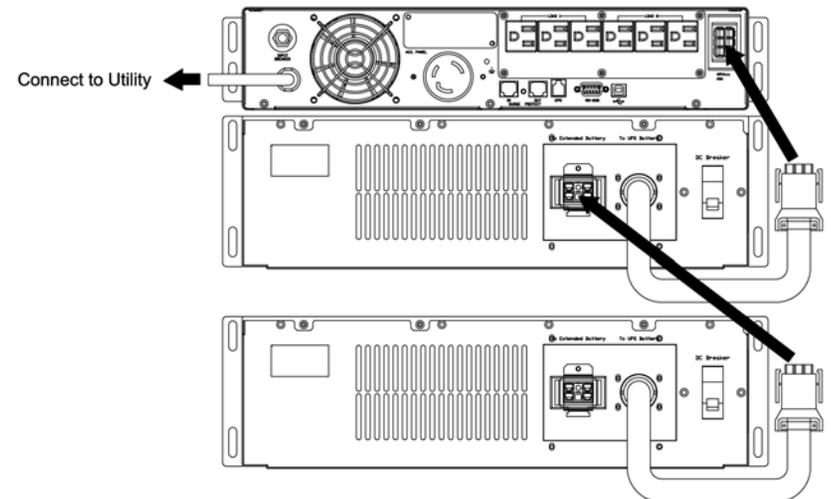
DAISY CHAINING

(QUALIFIED SERVICE PERSONNEL ONLY)

"Daisy Chaining" means hooking one Battery Pack to another Battery Pack to another Battery Pack, this chain could go on indefinitely. Follow the steps below to Daisy Chain the Battery Packs.

1. Be sure to read the installation placement procedure, all of the cautions and the safety precautions before Daisy Chaining the Battery Pack(s).
2. Make sure that the DC circuit breakers on the rear panel of the Battery Packs are in the Off position. **CAUTION:** If the Battery Pack's DC circuit breaker is in the On position, the battery voltage will be present at the open end of the Battery Pack's external battery cable and external battery connector.
3. Turn the UPS off and disconnect the UPS's input power cord from the AC wall outlet.
4. Remove the External Battery Connector cover from the UPS's rear panel and the additional Battery Packs.
5. Verify, before plugging the external battery cable into the UPS's external battery connector or the Battery Pack's external connector that they mate red to red and black to black.
6. Connect the external battery cable from the first Battery Pack to the external battery connector on the UPS.
7. Connect the external battery cable from the second Battery Pack to the external battery connector on the first Battery Pack.
8. Turn ALL of the DC circuit breakers on the rear panel of the Battery Packs to the On position.
9. The Battery Packs are ready for normal operation, see the UPS User's Manual for the normal startup of the UPS.

NOTE: There is no maximum number for Daisy Chaining the DC bus voltage for the Battery Packs.



Chapter 4: Replacing The Battery

(QUALIFIED SERVICE PERSONNEL ONLY)

These Battery Packs have an easy to replace hot-swappable batteries. Please read all of the **WARNINGS** and **CAUTIONS** before attempting to service the batteries.

NOTE: If there is a power interruption while replacing the hot-swappable batteries, with the UPS on, the load will not be backed up.

WARNING! This Battery Pack contains potentially hazardous voltages. Do not attempt to disassemble the Battery Pack beyond the battery replacement procedure. These Battery Packs contain no user serviceable parts. Repairs and Battery replacement must be performed by **QUALIFIED SERVICE PERSONNEL ONLY**.

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

CAUTION: Do not dispose of batteries in a fire. The batteries may explode. The batteries in this Battery Pack are recyclable. Dispose of the batteries properly. The batteries contain lead and pose a hazard to the environment and human health if not disposed of properly. Refer to local codes for proper disposal requirements or return the battery to the supplier.

CAUTION: Although battery system voltages are only 24VDC, 36VDC, 48VDC and 72VDC the battery system can still present a risk of electrical shock. These batteries produce sufficient current to burn wire or tools very rapidly, producing molten metal. Observe these precautions when replacing the batteries:

1. Remove watches, rings, or other metal objects.
2. Use hand tools with insulated handles.
3. Wear protective eye gear (goggles), rubber gloves and boots.
4. Do not lay tools or other metal parts on top of batteries.
5. Disconnect the charging source prior to connecting or disconnecting the battery terminals.
6. Determine if the battery is inadvertently grounded. If the battery is, remove the source of the grounding. Contact with any part of a grounded battery can result in an electrical shock. The likelihood of such shock will be reduced, if such grounds are removed during installation and maintenance.

CAUTION: Replace the batteries with the same number and type as originally installed in the Battery Pack. These batteries have pressure operated vents. These Battery Packs contain sealed non-spillable maintenance free lead acid batteries.

Model #	BP24RTEXTL BP48RTEXTL	BP36RTEXTL BP72RTEXTL
Battery Qty/Rating	20 - 12V9.0Ah	18 - 12V9.0Ah
CSB Part #	HR 1234W F2	
Yuasa Part #	REW45-12	

BATTERY REPLACEMENT PROCEDURE

(QUALIFIED SERVICE PERSONNEL ONLY)

PLEASE READ THE CAUTIONS AND WARNINGS BEFORE ATTEMPTING TO REPLACE THE BATTERIES

Hot-swappable batteries mean that the batteries can be replaced without powering down the whole UPS system.

NOTE: If there is a power interruption while replacing the hot-swappable batteries, with the UPS on, the load will not be backed up. To hot-swap the Battery Pack's batteries start with step number 6.

1. Turn off the equipment that is plugged into the output receptacles of the UPS.
 2. Press and release the Off button on the front panel to turn the UPS off.
 3. Unplug the UPS's AC power cord from the AC wall outlet.
 4. Unplug the equipment from the output receptacles of the UPS.
 5. Unplug the computer interface cable from the rear panel of the UPS.
 6. Turn off all of the DC circuit breakers on the rear panel of all of the Battery Packs.
 7. Disconnect all of the external battery cables.
 8. Remove the front panel retaining screw cover plates. (FIG. 1)
 9. Remove the front panel retaining screws. (FIG. 2)
 10. Remove the front panel.
 11. Remove the retaining screws for the battery retaining bracket. (FIG. 3)
 12. Remove the battery retaining bracket. (FIG. 3)
 13. Cut and remove all of the battery cable ties from the battery modules.
 14. Disconnect the battery connectors (red and black) one from each battery module. (FIG. 4)
 15. One at a time grasp the battery pull tabs and gently pull the battery modules out of the Battery Pack and set on the floor. (FIG. 4)
- NOTE:** Use Caution, the battery modules are heavy.
16. Remove the tape that goes around the battery module.
 17. Remove the top half of the plastic battery tray.
 18. Disconnect the battery positive (red) wires.
 19. Disconnect the battery negative (black) wires.
 20. Disconnect the battery jumper wires.

21. Remove the old batteries from the bottom half of the plastic battery tray.
 22. Install the new batteries into the bottom half of the plastic battery tray in the same position as the original batteries.
 23. Verify proper polarity. Re-install the battery jumper wires on the new batteries.
 24. Verify proper polarity. Reconnect the battery negative (black) wires.
 25. Verify proper polarity. Reconnect the battery positive (red) wires.
 26. Install top half of the plastic battery tray onto the batteries.
 27. Tape the battery module together.
 28. Slide the battery modules into the Battery Pack.
 29. Secure the battery cables with the battery cable ties.
 30. Verify proper polarity. Reconnect the battery connectors (red and black).
- NOTE:** Some sparking might occur, this is normal.
31. Re-install the battery retaining bracket. (FIG. 5)
 32. Re-install the retaining screws for the battery retaining bracket. (FIG. 5)
 33. Re-install the front panel on the Battery Pack.
 34. Re-install the front panel retaining screws. (FIG. 6)
 35. Re-install the front panel retaining screw cover plates. (FIG. 7)
 36. Reconnect all of the external battery cables.
 37. Turn on all of the DC circuit breakers on the rear panel of all of the Battery Packs.
 38. Properly dispose of the old batteries at an appropriate recycling facility or return them to the supplier in the packing material for the new batteries.
 39. The Battery Pack is ready for normal operation.
- NOTE:** If the UPS has a Weak/Bad Battery Alarm after replacing the batteries, the user must initiate a self test to clear the Weak/Bad Battery Alarm. To initiate a self test see section 4 "**SELF TEST**" in the UPS's User's Manual.

FIG. 1

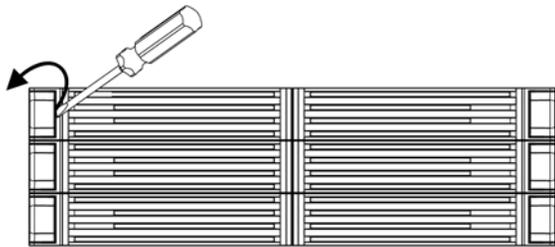


FIG. 2

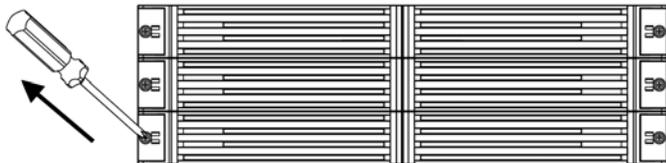


FIG. 3

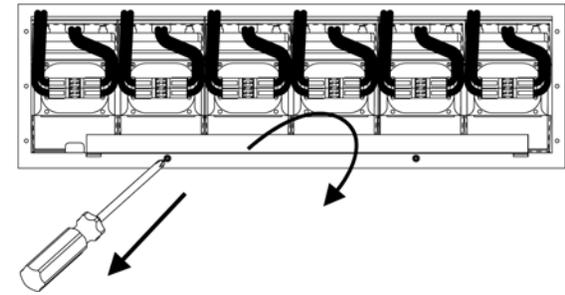


FIG. 4

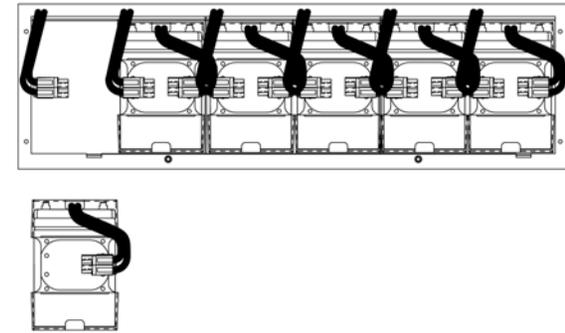


FIG. 5

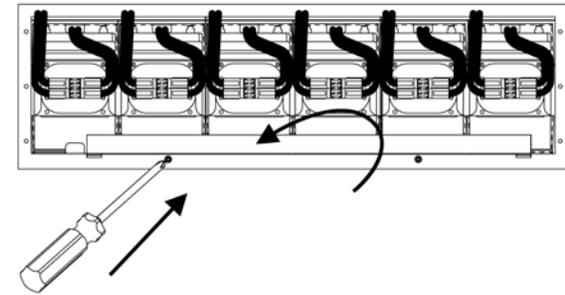
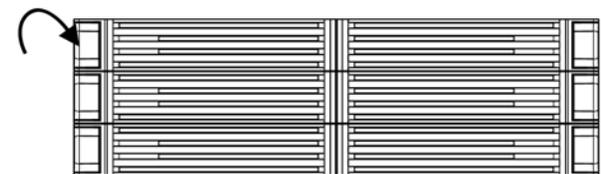


FIG. 6



FIG. 7



Chapter 5: Obtaining Service

IF THE BATTERY PACK REQUIRES SERVICE

1. Verify there are no tripped circuit breakers and that the batteries are good. A tripped circuit breaker and defective batteries are the most common issues.
2. Call your dealer for assistance. If you cannot reach your dealer, or if they cannot resolve the issue call or fax the Technical Support department at the following numbers; Voice phone (972) 446-7363, FAX line (972) 446-9011 or visit our Web site at www.minutemanups.com the "Discussion Board". Before calling the Technical Support Department have the following information available:
 - a) Contact name and address.
 - b) Where and when the unit was purchased.
 - c) All of the model information about your unit.
 - d) The serial number of your unit.
 - e) Any information on the failure, including LEDs that may be illuminated or error codes displayed.
 - f) A description of the protected equipment including model numbers, if possible.
 - g) A technician will ask you for the above information and if possible, help solve the issue over the phone. In the event that the unit requires factory service, the technician will issue you a Return Material Authorization Number (RMA #).
 - h) If the unit is under warranty, the repairs will be done at no charge. If the unit is not under warranty there will be a charge for the repair.
3. Pack the unit in its original packaging. If the original packaging is no longer available, ask the Technical Support Technician about obtaining a new set. It is important to pack the unit properly in order to avoid damage in transit. Never use Styrofoam beads for a packing material.
 - a) Include a letter with your name, address, day time phone number, RMA number, a copy of your original sales receipt, and a brief description of the problem.
4. Mark the RMA # on the outside of all packages. The factory cannot accept any package without the RMA # marked on the outside.
5. Return the unit by insured, prepaid carrier to:

Para Systems Inc.
 MINUTEMAN UPS
 1809 W. Frankford Road, Suite 150
 Carrollton, TX 75007
 ATTN: RMA# _____

Chapter 6: Specifications

SYSTEM SPECIFICATIONS				
Model Number	BP24RTEXTL	BP48RTEXTL	BP36RTEXTL	BP72RTEXTL
Format	Rack/Tower Convertible			
BATTERY SYSTEM				
Battery Type	Sealed, Non-Spillable, Maintenance Free, Value Regulated, Lead Acid			
Typical Recharge Time	24-hours from total discharge			
Typical Battery Life	3-5 years, depending on discharge cycles and ambient temperature			
System Voltage	24VDC	48VDC	36VDC	72VDC
System Current	40 Amps			
Battery Qty/Rating	20 - 12V9.0Ah		18 - 12V9.0Ah	
ENVIRONMENTAL				
Operating Temperature	0 to 40°C (+32 to +104°F)			
Storage Temperature	-15 to +45°C (+5 to +113°F)			
Operating/Storage Humidity	95% Non-Condensing			
Operating Elevation	0 to 3,000m (0 to +10,000 ft)			
Storage Elevation	0 to 15,000m (0 to +50,000 ft)			
PHYSICAL				
Size - Net L X W X H	26.8 x 17.3 x 5.2" 680 x 440 x 132 mm			
Weight - Net	138.9 lbs 63.0 Kgs	127.9 lbs 58.0 Kgs		
Size - Shipping L X W X H	35.8 x 22.0 x 10.7" 909 x 560 x 272 mm			
Weight - Shipping	148.2 lbs 67.2 Kgs	137.1 lbs 62.2 Kgs		

Chapter 7: Limited Product Warranty

Notes:

Para Systems, Inc. (Para Systems) warrants this equipment, when properly applied and operated within specified conditions, against faulty materials or workmanship for a period of three years from the date of purchase. For equipment sites within the United States and Canada, this warranty covers depot repair or replacement of defective equipment at the discretion of Para Systems. Depot repair will be from the nearest authorized service center. The customer pays for shipping the product to Para Systems. Para Systems pays ground freight to ship the product back to the customer. Replacement parts and warranty labor will be borne by Para Systems. For equipment located outside of the United States and Canada, Para Systems only covers faulty parts. Para Systems products that are depot repaired or replaced pursuant to this warranty shall only be warranted for the unexpired portion of the warranty applying to the original product. This warranty applies only to the original purchaser who must have properly registered the product within 10 days of purchase.

The warranty shall be void if (a) the equipment is damaged by the customer, is improperly used, is subjected to an adverse operating environment, or is operated outside the limits of its electrical specifications; (b) the equipment is repaired or modified by anyone other than Para Systems or Para Systems approved personnel; or (c) has been used in a manner contrary to the product's User's Manual or other written instructions.

Any technical advice furnished before or after delivery in regard to use or application of Para Systems' equipment is furnished without charge and on the basis that it represents Para Systems' best judgment under the circumstances, but it is used at the recipient's sole risk.

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