**CAUTION:** The UPS is a Class A digital device as defined in the United States by FCC Part 15. It complies with Part 15 Subpart B of the FCC rules. This class A digital 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:** All of the power controls on the UPS are for convenience only. The power to the load outlets is not disconnected if the UPS is turned off.

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**ENVIRONMENTAL**

<table>
<thead>
<tr>
<th>Operating Temperature</th>
<th>Operating Elevation</th>
<th>Storage Temperature</th>
<th>Surge Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>0°C to 40°C (32°F to 104°F)</td>
<td>0 to 2,000 m (0 to 6,562 ft)</td>
<td>-20°C to 70°C (-4°F to 158°F)</td>
<td>-60°C to 75°C (-76°F to 167°F)</td>
</tr>
</tbody>
</table>

**INSTALLATION**

Installation is the process of positioning the UPS. Suitable installation consists of:

1. Connecting to the UPS.
2. Connecting to the AC source.
3. Connecting to the battery.
4. Connecting to the computer.
5. Connecting to the telephone or data equipment.
6. Connecting to the network or local area network.
7. Connecting to the wall.

**WARNING:** This UPS series is intended to be installed in a temperature controlled environment that is free of conductive contaminants. Select a location which will provide good air circulation for the equipment and have no surrounding hazards. The load is not connected to the UPS if the temperature exceeds 45°C (113°F) or if the load is exposed to direct sunlight. Route power cords so they cannot be walked on or damaged.

**GUARANTEE:**

- **Batteries:**
  - **Lithium-ion:** 3 years from date of manufacture
  - **Lead-acid:** 5 years from date of manufacture

**WARRANTY:**

- **Batteries:**
  - **Lithium-ion:** 3 years from date of manufacture
  - **Lead-acid:** 5 years from date of manufacture

**SCROLL-BUTTON:**

- **Scroll-Button:**
  - **To scroll through the UPS’s parameters (input/output voltages and frequencies, and the estimated battery runtime) that are displayed on the LCD.

- **Scroll-Button:**
  - **To enable the audible alarm.**

- **Scroll-Button:**
  - **To disable the audible alarm.**

- **Scroll-Button:**
  - **To change the audible alarm volume.**

- **Scroll-Button:**
  - **To change the audible alarm tone.**

**ALARM:**

- **Alarm:**
  - **To light the warning light.**

- **Alarm:**
  - **To sound the audible alarm.**

- **Alarm:**
  - **To mute the audible alarm.**

- **Alarm:**
  - **To reset the alarm.**

- **Alarm:**
  - **To reset the audible alarm.**

**NOTE:**

- **Batteries:**
  - **Lithium-ion:**
    - **For Lithium-ion batteries:**
      - **Lithium-ion batteries:**
        - **For Lithium-ion batteries:**
          - **For Lithium-ion batteries:**

- **Batteries:**
  - **Lead-acid:**
    - **For Lead-acid batteries:**
      - **Lead-acid batteries:**
        - **For Lead-acid batteries:**

**ON-OFF BUTTON:**

- **On/Off Button:**
  - **To turn the UPS on and off.**

- **On/Off Button:**
  - **To turn the UPS off.**

**POWER:**

- **Power:**
  - **To turn the UPS on.**

- **Power:**
  - **To turn the UPS off.**

**FAX/BUSINESS:**

- **Fax/Business:**
  - **To turn the UPS on.**

- **Fax/Business:**
  - **To turn the UPS off.**

**OVERLOAD:**

- **Overload:**
  - **To turn the UPS on.**

- **Overload:**
  - **To turn the UPS off.**

**WEBSITE:**

- **Website:**
  - **To turn the UPS on.**

- **Website:**
  - **To turn the UPS off.**

**PORT:**

- **Port:**
  - **To turn the UPS on.**

- **Port:**
  - **To turn the UPS off.**

**USB:**

- **USB:**
  - **To turn the UPS on.**

- **USB:**
  - **To turn the UPS off.**

**RESTART:**

- **Restart:**
  - **To turn the UPS on.**

- **Restart:**
  - **To turn the UPS off.**

**APPLICATION:**

- **Application:**
  - **To turn the UPS on.**

- **Application:**
  - **To turn the UPS off.**

**WARNING:**

- **Warning:**
  - **To turn the UPS on.**

- **Warning:**
  - **To turn the UPS off.**

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**EQUIPMENT MAINTENANCE:**

- **Maintenance:**
  - **To turn the UPS on.**

- **Maintenance:**
  - **To turn the UPS off.**

**OPERATION:**

- **Operation:**
  - **To turn the UPS on.**

- **Operation:**
  - **To turn the UPS off.**

**SCROLL-BUTTON:**

- **Scroll-Button:**
  - **To scroll through the UPS’s parameters (input/output voltages and frequencies, and the estimated battery runtime) that are displayed on the LCD.

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- **Alarm:**
  - **To mute the audible alarm.**

- **Alarm:**
  - **To reset the alarm.**

**POWER:**

- **Power:**
  - **To turn the UPS on.**

- **Power:**
  - **To turn the UPS off.**

**APPLICATION:**

- **Application:**
  - **To turn the UPS on.**

- **Application:**
  - **To turn the UPS off.**

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**WARNING:**

- **Warning:**
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- **Warning:**
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- **Power:**
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**APPLICATION:**

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- **Application:**
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**CAUTION:**

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- **CAUTION:**
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- **Application:**
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- **Application:**
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**WARNING:**

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- **Application:**
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**CAUTION:**

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**WARNING:**

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- **Warning:**
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**POWER:**

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**APPLICATION:**

- **Application:**
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- **Application:**
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**CAUTION:**

- **CAUTION:**
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- **CAUTION:**
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**APPLICATION:**

- **Application:**
  - **To turn the UPS on.**

- **Application:**
  - **To turn the UPS off.**

---

**WARNING:**

- **Warning:**
  - **To turn the UPS on.**

- **Warning:**
  - **To turn the UPS off.**
REPLACING THE BATTERY

Please read all of the WARNINGS and CAUTIONS before attempting to service the batteries.

WARNING: This UPS contains potentially hazardous voltages. Do not attempt to service the UPS beyond the battery replacement procedure. This UPS contains 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. Do not dispose of batteries in a fire. The batteries may explode. Batteries are recyclable. Dispose of the batteries properly. The batteries contain lead and a hazardous material. Lead is toxic if ingested or inhaled. Follow local codes for proper disposal requirements or return the battery to the supplier.

CAUTION: Although the battery system voltage is only 12VDC, 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 the following precautions:

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 in-excessively grounded. If the battery is removed from the source of the grounding. Contact with any part of a grounded battery could result in an electrical shock. The likelihood of such a shock will be reduced, if such grounds are removed during installation and maintenance.

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

Model # | EN750 | EN800
--- | --- | ---
Battery Qty/Rating | 12V 7Ah | 12V 7Ah
CSB Part # | GP1272 | HR1234W
Yussa Part # | NF-72-12 | REW6-12
First Power Part # | FP1778 | FP1990
Ritar Part # | RT1250 | RT1290
Center Power Part # | CP1700 | CP1900
Long Way Part # | FM77 | FM80

Typical Recharge Time: 8 hours from total discharge.

Typical Battery Life: 2-5 years, depending on discharge cycles and ambient temperature.

BATTERY REPLACEMENT PROCEDURE

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

1. Turn off the equipment that is plugged into the output receptacles of the UPS.
2. Press the On/Off button for at least one second then release the On/Off button to turn the UPS off.
3. Unplug the UPS's 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 UPS.
6. Turn the UPS over and lay it face down. (FIG. 4)
7. Remove the battery compartment door retaining screw. (FIG. 1)
8. Remove the battery compartment door by pressing down on the locking tabs, slide the door outward and then up. (FIG. 2)
9. Grasp the battery and gently pull it out far enough to disconnect the battery wires.
10. Disconnect the battery negative (Black) wire from the battery negative terminal.
11. Disconnect the battery positive (Red) wire from the battery positive terminal. (FIG. 3)

NOTE: Do not short the battery wires together.

12. Remove the battery and set aside.
13. Orient the new battery in the same direction as the original battery.
14. Place the new battery close enough to connect the battery wires.
15. Connect the battery positive (Red) wire to the battery positive terminal.
16. Connect the battery negative (Black) wire to the battery negative terminal.

NOTE: Some sparking might occur, this is normal.

17. Install the new battery into the UPS.
18. Re-install the battery compartment door onto the UPS.
19. 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.
20. The UPS is now ready for normal operation.

NOTE: If any equipment that was on line with the UPS begins to fail at any time, the UPS will attempt to supply power to that piece of equipment for a maximum of 10 minutes. If the UPS begins to fail, the UPS will shut down in a controlled manner.

IF THE UPS REQUIRES SERVICE

1. Use the TROUBLESHOOTING section to eliminate obvious causes.
2. Verify there are no circuit breakers tripped. A tripped circuit breaker is the most common problem.
3. Call your dealer for assistance. If you cannot reach your dealer, fill out the following form and fax it to us. The form can be downloaded from www.minutemanups.com.

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Para Systems, Inc.
1455 LeMay Dr.
Carrollton, TX 75050

Manufacurer’s Name: Para Systems Inc.

Year of Manufacture: Beginning May 1, 2009

The following information is available BEFORE calling the Technical Support Department.

1. Your address and name.
2. Where and when was the unit purchased.
3. All of the information about your UPS.
4. Any information on the failure, including LEDs that may be illuminated.
5. A description of the protected equipment, including model numbers if possible.
6. A technician will ask you for the above information and, if possible, help solve your problem over the phone. If the unit requires factory service, the technician will issue you a Return Material Authorization Number (RMA). If the UPS is under warranty, the repairs will be done at no charge. If there is no warranty, there will be a charge for repair.

Pack the UPS 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 UPS properly in order to avoid damage in transit. Never use Styrofoam beads for a packing material. Include a letter with your name, address, daytime phone number, RMA number, a copy of your original sales receipt, and a brief description of the problem.

Mark the RMA # on the outside of all packages. The factory cannot accept any package without the RMA # marked on the outside.

6. Return the UPS by insured, prepaid carrier to:

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LTD. PRODUCT WARRANTY

Para Systems, Inc. warrants this equipment, when properly applied and operated within specified conditions, against faulty materials (excluding the batteries) or workmanship for a period of three years from the date of purchase. Para Systems Inc. (Para) also warrants the batteries for a period of two years from the date of purchase. For equipment sites within the United States and Canada, this warranty covers repair or replacement of defective equipment at the discretion of Para Systems. Repair will be from the nearest authorized service center. 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 repaired or replaced pursuant to this warranty shall be warranted for the unused 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’s equipment is furnished without charge and on the basis that it represents Para Systems’s best judgment under the circumstances, but it is used at the recipient’s sole risk.

EXCEPT AS PROVIDED HEREIN, PARA SYSTEMS MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND A PARTICULAR PURPOSE. Some states do not permit limitation of implied warranties, therefore, the above limitation(s) may not apply to the purchaser.

EXCEPT AS PROVIDED ABOVE, IN NO EVENT WILL PARA SYSTEMS BE LIABLE FOR DIRECT, INDIRECT, INCIDENTAL, CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OF THIS PRODUCT, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES SPECIFICALLY, Para Systems is not liable for any costs, such as lost profits or revenue, loss of equipment, loss of use of equipment, loss of data, cost of substitute equipment, claims by third parties, or otherwise. The sole and exclusive remedy for breach of any warranty, expressed or implied, concerning Para Systems’s products, and the only obligation of Para Systems’s products is the only obligation of Para Systems hereunder, shall be the repair or replacement of defective equipment, components, or parts, or at Para Systems’s option, refund of the purchase price or substitution with an equivalent replacement. This warranty gives you specific legal rights and you may have also other rights which vary from state to state.

A1. DECLARATION OF CONFORMITY


Standards to which Conformity is declared: FCC Class B

Manufacturer’s Name: Para Systems Inc.

Manufacturer’s Address: 1455 LeMay Drive Carrollton, Texas 75050

Type of Equipment: Uninterruptible Power Supplies (UPS)

Model No: EN750, EN800

Year of Manufacture: Beginning May 1, 2009

I, hereby declare that the equipment described above conforms to the above Directive(s).

Robert Calhoun

Manager Engineering

Position: (Name)

Date: May 1, 2009

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