**OPERATING ENVIRONMENT**

- 32 - 104°F (0 - 40°C)
- 20% to 80% RH, non-condensing
- Power OFF during lightning and severe storms
- Voltages up to 10% below and 10% above the specified input voltage range
- No exposure to rain or moisture
- Not intended for use in a bathroom
- For use in buildings only

**INSTALL SOFTWARE ON COMPUTER (Optional)**

1. Insert CD into computer, and on-screen instructions complete the installation.
2. On the computer desktop of the display, double-click the on-screen instructions.
3. Follow the on-screen instructions.

**CONNECT COAXIAL CABLES**

- Coaxial Cable
- To Cable
- From Cable
- DVD Drive
- Printer or Scanner
- Computer
- Monitor
- External ground connection

**FAULT INDICATOR**

- **On Battery** symbol is lit whenever battery backup power is used to power equipment connected to the Back-UPS.
- **Continuous beep** - this alarm sounds whenever the battery backup power is used to power equipment connected to the Back-UPS.
- **Four Beeps Every 30 Seconds** - this alarm sounds whenever the Load Voltage is running on battery (ON BATT). You should consider saving any work in progress.
- **Continuous Bleeping** - this alarm sounds whenever a low battery condition occurs, and battery run-time is very low. Promptly save any work in progress, exit all open applications, and shut down the operating system, computer, and application software.
- **Load Capacity** - this indicator consists of a bar containing five blocks. When only one or two of the blocks are filled (lit), the unit LOAD is at less than half capacity.

**CONNECT MODEM/PHONE/Network and TVSS Ground**

- RJ-45/Coax - this indicator consists of a bar containing five blocks. When only one or two of the blocks are filled (lit), the unit LOAD is at less than half capacity.

**CONNECT BATteRy CARTRIDGE**

- User's Manual
- Note: This diagram is also used for battery cartridge replacement.
**ON-LINE MODE Display Selection**

When you are in ON-LINE mode, and press the DISPLAY button, you will rotate through the following seven groups of displays and messages.

1. **BATTERY MODE**
   - When you are in battery (ON BATT) mode, and press the DISPLAY button a seventh time, the battery backup (ON BATT) output (OUT) voltage (V) is displayed, in this example it is 115 V.
   - Pressing the DISPLAY button a sixth time displays the ONLINE output (OUT) frequency is displayed, in this example it is 60.0 Hz.
   - When you are in battery (ON BATT) mode, and press the DISPLAY button a second time, the power EVENT counter is displayed, as shown below. To reset the counter, press and hold the DISPLAY button, and press the power ON/OFF button.
   - When you press the DISPLAY button a third time, the ESTIMATED RUN TIME IN MINUTES is displayed. In this example, the value is 18 minutes.

2. **OTHER STATUS INDICATORS**
   - Self-Test:
     - To initiate self-test mode, press the power ON/OFF button, and hold it in for one second.

3. **DISPLAY/HOLD TO MUTE**
   - Mute:
     - This feature allows you to mute the audible alarm (the beeper) for a single display and message. To mute the audible alarm, the unit should be on battery, or the “speaker” symbol is displayed. Press the DISPLAY/HOLD TO MUTE button for one second, the alarm (beeper) is toggled, and the “speaker-NOT” symbol (speaker with a line drawn through it) is displayed on the screen.

4. **LOAD**
   - Warning 1 - Online Overload
     - This warning indicates that there is an overload condition. This is indicated by the flashing overload icon.
   - Warning 2 - Battery Backup Overload
     - This warning indicates that there is a backup battery overload condition. This is indicated by the flashing overload icon.
   - Warning 3 - Online Bad Battery
     - This warning indicates that you are in ONLINE mode, and you have a bad battery, indicated by the flashing bad battery icon.
   - Warning 4 - Battery Backup Low Battery
     - This warning indicates that the battery is low. This is indicated by the word LOW, and the Battery Capacity indicator bar flashing.

5. **ESTIMATED RUN TIME IN MINUTES**
   - Up to nine system faults can be displayed (F01 - F09). A note, SEE MANUAL, is provided just below the system fault number. The system faults include:
     - F01 - On-Battery Overload
     - F02 - On-Battery Output Short
     - F03 - Clamp Short
     - F04 - Clamp Fault
     - F05 - On-Battery ACX Overload
     - F06 - Fan Fault
     - F07 - Low Battery
     - F08 - Relay Welding
     - F09 - Internal Fault

6. **SYSTEM FAULTS**
   - Note: A rotating selection method is used that allows you to step through the display modes using the DISPLAY/HOLD TO MUTE button until you select the display mode you want. For example, in Power Save mode none of the blocks are lit. If all five of the blocks are lit, it indicates the LCD is in full time mode, and will remain on full time.

7. **LCD Full Time Display Mode**
   - To enable an audible alarm that has been muted, perform the following steps:
     1. Press and hold the power ON/OFF pushbutton in for 10 seconds. The unit will go into “sensitivity programming mode”.
     2. Use the ON/OFF button to select the LO, MID or HIGH range. LO displays one block, MID is three blocks, and HIGH is five blocks. Sensitivity programming mode is also discussed on Page 3.

8. **LOAD**
   - A/V:
     - When A/V is illuminated on the LCD, it indicates that the automatic voltage regulation (AVR) circuitry is in Boost mode. A/V compensates for excessively low voltage conditions without going on battery. In this example, 90 V is displayed.

9. **SENSITIVITY**
   - A typical condition where sensitivity adjustments would be appropriate is with an AC line input, and with the UPS off.
   - Press and hold the power ON/OFF pushbutton in for 10 seconds. The unit will go into “sensitivity programming mode”.

10. **LOAD**
    - LCD:
        - The LCD can be set to full time display mode by performing the following steps:
          1. Ensure the unit is connected to utility input power, and the power on/off switch is turned off (no power is supplied to the output connectors).
          2. Press the DISPLAY/HOLD TO MUTE pushbutton, and hold it in for 10 seconds. All five blocks in the Battery Capacity bar will flash off and on, which indicates the unit is in pushbutton programming mode.
          3. When you rotate through the selections and reach the display mode you want, press and release the DISPLAY/HOLD TO MUTE button to select the display mode.
          4. Once you have selected the desired display mode, continue with normal operations.
**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Item</th>
<th>1300 VA</th>
<th>1500 VA</th>
</tr>
</thead>
<tbody>
<tr>
<td>On-line Input Voltage Range (default settings)</td>
<td>88 to 139 VAC</td>
<td>72% (Boost mode only)</td>
</tr>
<tr>
<td>Automatic Voltage Regulation (AVR)</td>
<td>75% to 83 Hz (Automotins)</td>
<td></td>
</tr>
<tr>
<td>On-line Frequency Range</td>
<td>50 to 60 Hz</td>
<td></td>
</tr>
<tr>
<td>On-battery Waveshape</td>
<td>Stepped Sine Wave</td>
<td></td>
</tr>
<tr>
<td>Maximum Load</td>
<td>1300 VA: 780 W</td>
<td>1500 VA: 865 W</td>
</tr>
<tr>
<td>Input Recharge Time</td>
<td>1300 VA: 16 Hours</td>
<td>1500 VA: 16 Hours</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>32°F to 104°F</td>
<td>90°F to 40°C</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>23° to 113°F</td>
<td></td>
</tr>
<tr>
<td>Operating / Storage Relative Humidity</td>
<td>0 to 95% non-condensing</td>
<td></td>
</tr>
<tr>
<td>NET (in W x ft)</td>
<td>8.7 inch x 5.1 inch x 13.4 inch</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>1300 VA: 24 lbs (11.4 kg)</td>
<td>1500 VA: 34.2 lbs (15.6 kg)</td>
</tr>
<tr>
<td>Shipping Weight</td>
<td>1300 VA: 31 lbs (14.1 kg)</td>
<td>1500 VA: 34.2 lbs (15.6 kg)</td>
</tr>
<tr>
<td>EMI Classification</td>
<td>FCC / DOC Class B Certified</td>
<td></td>
</tr>
<tr>
<td>On Battery Run-Time</td>
<td>Go to: <a href="http://www.apc.com/product">http://www.apc.com/product</a></td>
<td></td>
</tr>
<tr>
<td>Approvals</td>
<td>UL, CUL, NOM</td>
<td></td>
</tr>
</tbody>
</table>

**TRANSFER VOLTAGE and SENSITIVITY ADJUSTMENT**

In situations where the Back-UPS or connected equipment appears too sensitive to the input voltage, it may be necessary to adjust the transfer voltage. This is a simple task using the front panel power on/off pushbutton. To adjust the transfer voltage, proceed as follows:

1. Plug the Back-UPS into the utility power source, but do not turn the unit on. The Back-UPS will be in standby mode (there are no indicators lit).

2. Press and hold the front panel power on/off switch in for 10 seconds, until all the indicators on the Back-UPS flash to acknowledge it has entered sensitivity programming mode. Release the on/off button, the blocks in the Back-UPS's LOAD bar shown on the LCD indicate its current sensitivity setting, as described in the table below.

Note: The Back-UPS automatically exits programming mode in five seconds if no buttons are pressed, and no operations are run. Reference the table below to determine which sensitivity setting to select.

<table>
<thead>
<tr>
<th>Indicators</th>
<th>Sensitivity Setting</th>
<th>Input Voltage Range (utility power operation)</th>
<th>Use When</th>
</tr>
</thead>
<tbody>
<tr>
<td>(one block of the Load Bar)</td>
<td>Low</td>
<td>78 to 142 Vac</td>
<td>Input voltage is extremely low or extremely high. Not recommended for computer loads.</td>
</tr>
<tr>
<td>(three blocks of the Load Bar)</td>
<td>Medium</td>
<td>88 to 139 Vac</td>
<td>The Back-UPS frequently goes on battery (ON-BATT).</td>
</tr>
<tr>
<td>(five blocks of the Load Bar)</td>
<td>High</td>
<td>88 to 136 Vac</td>
<td>The connected equipment is sensitive to voltage fluctuations.</td>
</tr>
</tbody>
</table>

4. To select the Low Sensitivity setting, press and release the ON/OFF switch several times until only the first block in the Load Bar is lit and flashing, then release the switch.

5. To select the Medium Sensitivity setting (the unit's default), press and release the ON/OFF switch until the first three blocks in the Load Bar are lit and flashing, then release the switch.

6. To select the High Sensitivity setting, press and release the ON/OFF switch until all five blocks of the Load Bar are lit and flashing, and then release the switch.

7. If there are no operations for five seconds, the Back-UPS will automatically exit sensitivity programming mode, and the Back-UPS is ready for normal operation.

**ORDER REPLACEMENT BATTERY**

The battery cartridge typically lasts 3 to 6 years, a shorter period if subjected to frequent outages or elevated temperatures. For the BR1300LCD, BR1500LCD, BX1300LCD and BX1500LCD order part APCRBC109. Please recycle spent battery cartridges.

**WARRANTY**

The standard warranty is three (3) years from the date of purchase. APC's standard procedure is to replace the original unit with a factory reconditioned unit. Customers who must have the original unit back due to the assignment of asset tags and set depreciation schedules must declare such a need at first contact with an APC Technical Support representative. APC will ship the replacement unit once the defective unit has been received by the repair department, or cross-ship upon the receipt of a valid credit card number. The customer pays for shipping the unit to APC, APC pays ground freight transportation costs to ship the replacement unit to the customer.

**SERVICE**

If the Back-UPS arrived damaged, notify the carrier. If the Back-UPS requires service, do not return it to the dealer. The following steps should be taken:

1. Consult the Troubleshooting section to eliminate common problems.
2. If the problem persists, go to http://www.apc.com/support/.
3. If the problem still persists, contact APC Technical Support.

   • Have the Back-UPS model number, serial number and date of purchase available. Be prepared to troubleshoot the problem with an APC Technical Support representative. If this is not successful, APC will issue a Return Merchandise Authorization (RMA) number and a shipping address.

**CONTACT INFORMATION**

Technical Support  http://www.apc.com/support
Internet  http://www.apc.com
USA / Canada  1.800.800.4272
Mexico  292.0253 / 292.0255
Worldwide  +1.401.789.5735

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