Turn On the Back-UPS
Press the POWER button. It will illuminate and a short green beep indicating that the Back-UPS is on and providing protection for connected equipment.

The Back-UPS battery will charge regardless of whether the Back-UPS is switched on or off as long as it is connected to AC power. The UPS will have full runtime capability after the initial 24-hour charging period, connected to AC power.

If the red Building Warning Fault indicator (located on the rear end the power cord) lit, your building wiring may present a shock hazard that should be corrected by a qualified electrician.

Turn Off the Back-UPS
Press the POWER button for at least 2 seconds. At the first beep, release the button and the UPS will turn off. A 2 second delay has been added to mitigate unintentional contact with the POWER button.

Quick Mute
The Back-UPS is able to temporarily mute user correctable alarms such as: On Battery, Battery disconnected and Overload. During such alarms, a short press (less than 2 seconds) of the POWER button will temporarily mute the alarm until the condition has been reset. A short double beep will confirm that Quick Mute has been activated. Pressing the POWER button for more than 2 seconds will turn off the UPS.

Other critical events such as Battery replacement and Charger notification can not be temporarily muted. The unit in these cases must be turned off.

On Battery Indicator Modes
With the UPS turned on, configuring the On Battery Indicator modes below is done by holding down the POWER button and waiting for the third beep. At the third beep, the POWER button will cycle red - green. Release the POWER button and its color will indicate the mode the UPS is in. Press the POWER button to cycle through each mode. See the table below for the 3 mode selection colors. Once the mode has been selected, wait 5 seconds and the setting will be committed to the UPS.

PowerChute™ Personal Edition Software
Overview
Use PowerChute™ Personal Edition software to configure the UPS settings, protect your computer and other equipment during a utility power outage. During a power outage, PowerChute™ will save any open files on your computer and shut it down. When utility power is restored, it will restart the computer.

Note: PowerChute is only compatible with a Windows operating system. If you are using Mac OSX, use the native shutdown feature to protect your system. See the documentation provided with your computer.

Installation
Use the USB cable to connect the Data port on the UPS to the USB port on your computer. Download PowerChute™ Personal Edition Software from www.apc.com/pcpe. Select the appropriate operating system and follow directions to download the software.

*not compatible to BN900M

Status Indicators

<table>
<thead>
<tr>
<th>Feature</th>
<th>Function</th>
<th>Suggested Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>Batteries Backup Surge Protection Outlets</td>
<td>Reserve power from the battery for a limited period of time when a power outage, or brownout condition occurs.</td>
<td>Provide protection from power surges or spikes.</td>
</tr>
<tr>
<td>Surge Protection Outlets</td>
<td>Connect non-critical peripheral devices (such as printer, scanner, etc.) that do not need to remain on during power outages or AC problems.</td>
<td></td>
</tr>
<tr>
<td>USB Charging Ports (BE850M2/850M2-LM only)</td>
<td>Provide power when the unit is on AC and on battery.</td>
<td>Change USB devices</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Power Button Illumination</th>
<th>Audible Indicator</th>
<th>Audible Indicator Terminates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scaled green</td>
<td>None</td>
<td>N/A</td>
</tr>
<tr>
<td>Scaled red and green</td>
<td>None</td>
<td>N/A</td>
</tr>
<tr>
<td>Solid green and amber</td>
<td>None</td>
<td>N/A</td>
</tr>
<tr>
<td>Solid green and amber</td>
<td>None</td>
<td>N/A</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Status</th>
<th>Power Button Illumination</th>
<th>Audible Indicator</th>
<th>Audible Indicator Terminates</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>Constant tone</td>
<td></td>
<td></td>
</tr>
<tr>
<td>None</td>
<td>Red</td>
<td></td>
<td></td>
</tr>
<tr>
<td>None</td>
<td>Red and green</td>
<td></td>
<td></td>
</tr>
<tr>
<td>None</td>
<td>Amber</td>
<td></td>
<td></td>
</tr>
<tr>
<td>None</td>
<td>Red and green</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Replace Battery</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Off</td>
<td>Normal</td>
<td>O.K.</td>
</tr>
<tr>
<td>On</td>
<td>Battery is disconnected,</td>
<td></td>
</tr>
<tr>
<td>Battery needs to be charged,</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Replaced</td>
<td>4 beeps every 30 seconds</td>
<td></td>
</tr>
<tr>
<td>Power</td>
<td>Low Battery shutdown</td>
<td></td>
</tr>
<tr>
<td>On</td>
<td>None</td>
<td>N/A</td>
</tr>
<tr>
<td>Battery is completely charged</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Battery is on battery, the UPS will shut down.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Off</td>
<td>Constant tone</td>
<td></td>
</tr>
<tr>
<td>Battery is on AC and on battery.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Battery is not turned off</td>
<td></td>
<td></td>
</tr>
<tr>
<td>On</td>
<td>Constant tone</td>
<td></td>
</tr>
<tr>
<td>Battery is on AC and on battery.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Battery is not turned off</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>On Line Overload</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Condition occurs</td>
<td>None</td>
<td>N/A</td>
</tr>
<tr>
<td>On AC power and the connected load exceeds the power output of the UPS.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>If overload persists for an extended period of time, the UPS will enter Overload Shutoff.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Overload Shutoff</td>
<td>None</td>
<td>N/A</td>
</tr>
<tr>
<td>An overload condition has occurred in one or more of the battery backup outlets while operating on battery power. This also occurs if On Line Overload persists for an extended period of time.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Overload Shutoff</td>
<td>None</td>
<td>N/A</td>
</tr>
<tr>
<td>An overload condition has occurred in one or more of the battery backup outlets while operating on battery power. This also occurs if On Line Overload persists for an extended period of time.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>USB Detected Fault</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>A short circuit has been detected or an error has occurred</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alarms</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>
Wall Mount Installation

- Horizontal installation, use 2 screws 10.51" (267 mm) apart.
- Allow 5/16" (8 mm), of the screw to protrude from the wall.

Wall Mounting Template

10.51 in. 267 mm

Voltage Sensitivity Adjustment (optional)

The Back-UPS detects and reacts to line voltage distortions by transferring to battery backup power to protect connected equipment. In situations where either the Back-UPS or the connected equipment is too sensitive for the input voltage level it is necessary to adjust the transfer voltage.

1. Turn off the UPS while connected to a wall outlet.
2. Press and hold the ON/OFF button for 10 seconds. The POWER button will flash alternate green, amber, or red to indicate the current sensitivity level. Refer to the table for an explanation of the transfer voltage sensitivity levels.
3. To exit Program mode wait five seconds and all LED indicators will extinguish.

LED Flashes Sensitivity Setting Input Voltage Range (AC Operation) Recommended Use
Green LOW 88 Vac to 142 Vac Use this setting with equipment that is less sensitive to voltage or waveform distortions.
Red MEDIUM 92 Vac to 139 Vac Factory default setting. Use this setting under normal conditions.
Amber HIGH 96 Vac to 136 Vac Use this setting when connected equipment is sensitive to voltage and waveform fluctuations.

Specifications

Model BE850M2/BE850M2-LM BN900M/BN900M-CA
Input Voltage 90-140 Vac, 50/60 Hz ± 3 Hz auto-sensing
Frequency 50/60 Hz ± 3 Hz
Input Transformer 92 Vac Typical
Input Voltage Transfer Voltage 500 VA - 850 VA
Output UPS Capacity 850 VA, 480 W 900 VA, 480 W
Battery backup outlets 7.1A 7.5A
Input current 12.5 A
Voltage - On Battery 115 Vac ± 3%
Frequency - On Battery 50/60 Hz ± 1 Hz
Output Current 12 A
Power output is dependent on the power draw of the connected devices. Check your device manufacturer to understand the maximum charging current for a given USB spec.

USB Charging Part (BE850M2-

BN900M2-LM only)

USB Charging Port Standard charging current 0.5 A
Power specifications Charging current use only 0.5 A N/A
Change compatibility USB Battery Charging Specification 1.2 N/A

Protection and Filtering

- Full time, 360° protection
- TriCycle Filter
- AC input: Reconnect circuit breaker

Battery

- 3 - 5 years, the number of discharge cycles, poor quality AC power, environmental temperature and humidity may shorten the battery lifetime.
- Charging Time 8 hours. Using the USB ports while charging the battery will prolong the amount of time required.

Physical

- Net Weight 9.0 lb (4.1 kg)
- Dimensions L x W x H 15.9 x 7.9 x 2.4 inches
- Operating Temperature 32 °F to 110 °F (0 °C to 43 °C)
- Storage Temperature -4 °F to 158 °F (-20 °C to 70 °C)
- Operating Relative Humidity 0% to 95% non-condensing humidity
- Operating Altitude 0 to 10,000 ft (0 to 3000 m)

Replace Battery

- Deliver the used battery to a recycling facility.
- Replace the used battery with an APC by Schneider Electric approved battery.
- Replacement batteries can be ordered through the APC by Schneider Electric Web site, www.apc.com.
- Battery replacement part for Back-UPS BE850M2 / BE850M2-LM / BN900M / BN900M-CA is RBC77.

Service

If the unit requires service, do not return it to the dealer. Follow these steps:

1. Review the Troubleshooting section of the manual to determine common problems.
   a. Note the model number and serial number and the date of purchase. The model and serial numbers are located on the rear panel of the unit and are available through the LCD display on select models.
   b. Call SEIT Customer Support and a technician will attempt to solve the problem over the phone. If this is not possible, the technician will issue a Return Material Authorization Number (RMA).
   c. If the unit is under warranty, the repairs are free.
   d. Service procedures and returns may vary internationally. Refer to the APC by Schneider Electric Web site for country specific instructions.
3. Pack the unit in the original packaging whenever possible to avoid damage in transit.
4. Never use foam beads for packaging. Damage sustained in transit is not covered under warranty.
5. Always DISCONNECT THE UPS BATTERIES before shipping. The United States Department of Transportation (DOT), and the International Air Transport Association (IATA) regulations require that UPS batteries be disconnected before shipping. The internal batteries may remain in the UPS.
6. Write the RMA# provided by Customer Support on the outside of the package, or ship the unit by insured, pre-paid carrier to the address provided by Customer Support.

Warranty

Register your product on-line, http://warranty.apc.com

The standard warranty is three (3) years from the date of purchase. Schneider Electric IT (SEIT) 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 SEIT Technical Support representative. SEIT will ship the replacement unit once the defective unit has been received by the repair department, or cross ship upon receipt of a valid credit card number. The customer pays for shipping the unit to SEIT. SEIT pays ground freight transportation costs to ship the replacement unit to the customer.

Troubleshooting

Problem and Possible Cause Solution
The Back-UPS will not turn on
- The Back-UPS is not connected to AC power, there is no AC power available at the wall outlet, or the AC power is experiencing a brownout or over voltage condition.
- Make sure the power cord is securely connected to the wall outlet, and that there is AC power available from the wall outlet. Where applicable, check that the wall outlet is switched on.
- The battery is disconnected. Refer to the section “AC Operation”.

Connected equipment loses power
- A Back-UPS overload condition has occurred.
- Remove all nonessential equipment connected to the outlets. One at a time reconnect equipment to the Back-UPS.
- The battery is near full discharge. When the AC power is restored the battery will recharge.
- The Back-UPS battery is completely discharged.
- Contact the Back-UPS to AC power and allow the battery to recharge for ten hours.
- The Back-UPS is operating on battery power.
- The Back-UPS is operating normally on battery power. At this point you should consider filing open files, and shutdown the computer. When AC power is restored the battery will recharge.

The Battery Power button flashes in rapid succession
- The Back-UPS battery has approximately two minutes of remaining runtime.
- The battery is near a full discharge state. The user should save all open files, and shutdown the computer. When AC power is restored the battery will recharge.

The Battery Power button flashes green twice every 4 seconds
- The Back-UPS is operating on battery power.
- The Back-UPS is operating normally on battery power. If the battery is near full discharge state the user should save all open files and not save the computer. When AC power is restored the battery will recharge.

The Power button is green and flashes twice every 4 seconds
- The Back-UPS is operating on battery power.
- The Back-UPS is operating normally on battery power. At this point you should consider filling open files, and shutdown the computer. When AC power is restored the battery will recharge.

The UPS battery is completely discharged. Con nect the Back-UPS to AC power and allow the power to the outlets. There is however enough input power the outlets. There is however enough input power to power the outlets. There is however enough input power to power the outlets. There is however enough input power to power the outlets.

The battery is not fully charged.
- The battery is near the end of useful life and should be replaced.
- Leave the Back-UPS connected to AC power for eight hours while the battery charges to full capacity. As a battery ages, the manganese capacity decreases. See Replace battery to order replacement batteries.

The USB ports have detected a short circuit or have detected an error.
- The USB ports are off but the UPS keeps beeping twice every 30 seconds (Quiet Alarm mode) or keeps beeping once every 4 seconds (Full Alarm mode).
- The UPS and outlets are off but the UPS keeps beeping twice every 30 seconds (Quiet Alarm mode) or keeps beeping once every 4 seconds (Full Alarm mode).
- The USB ports have detected a short circuit or have detected an error.
- Disconnect cable and device from the USB port and USB charger will resume when the POWER button turns green. Contact SEIT Technical Support if the USB charging will not resume.
- The voltage is not low enough to shutdown the UPS but not high enough to start the UPS and power the outlets. There is however enough voltage to charge the UPS.
- The UPS and outlets are off but the UPS keeps beeping twice every 30 seconds (Quiet Alarm mode) or keeps beeping once every 4 seconds (Full Alarm mode).
- The voltage is not low enough to shutdown the UPS but not high enough to start the UPS and power the outlets. There is however enough voltage to charge the UPS.
- Use Quick Mist to save the alarm. The UPS will resume normal operation when the AC input voltage has returned to a normal range.
- The alarm is on with a constant tone; outlets are normal but POWER button is solid amber.
- Disconnect devices from the UPS until the load is less than the rated output of the UPS.
- The UPS is on AC power but the power of the connected equipment exceeds the rated output of the UPS. If a power disruption is to occur at any moment the UPS may not be able to power the connected equipment.
- The alarm is on with a constant tone and the UPS is off.
- The UPS was on battery and the connected load exceeded the total load of the UPS.
- The UPS was on AC power and the On Line Overload condition persisted for an extended period of time unresolved.
- Turn off the UPS. Disconnect all devices. Turn on the UPS and reconnect the devices one at a time.

APC by Schneider Electric IT Customer Support Worldwide

For country specific customer support, go to the APC by Schneider Electric Web site, www.apc.com.

EMC Compliance

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, (2) This device must accept any interference received, including interference that may cause undesired operation.

This UPS is certified to comply with California Battery Charger System regulations. For more information go to: www.apc.com/site/recycle/index.cfm/energy-efficiency/cec-battery-charger/