Installation

1. Connect the Battery

In compliance with Department of Transportation (DOT) regulations, the Back-UPS is shipped with the internal red battery wire disconnected. The Back-UPS will not operate until the internal red wire is connected to the battery. Once connected, allow the Back-UPS to charge for a full eight hours prior to use.

Note: Small sparks may occur during battery connection. This is normal.

a. Open the battery compartment, as shown.

b. Pull the battery about halfway out, as shown.

c. Connect the red battery wire to the positive battery terminal.

d. Push the battery into the battery compartment and re-install the cover, as shown.

2. Placement / Power

- This UPS is intended for indoor use only.
- Do not operate this UPS in direct sunlight, in contact with fluids, or where there is excessive dust or humidity.
- Be sure the air vents on the UPS are not blocked. Allow adequate space for proper ventilation.
- The battery typically lasts for two to three years. Environmental factors impact battery life. Elevated ambient temperatures, poor quality AC power, and frequent short duration power outages will shorten battery life.
- Connect the UPS power cord directly to a wall outlet. Do not use surge protectors or extension cords.
- Plug the Back-UPS into a wall outlet, as shown.

3. Check the Building Wiring Fault Indicator

If the red Building Wiring Fault indicator on the rear panel of the Back-UPS is lit, one of the following conditions exists:

- Open or high resistance ground
- Hot or neutral polarity reversed
- Overloaded neutral circuit

A lit indicator means that a potential shock hazard exists. Improper building wiring should be corrected by a qualified electrician. Do not connect to the building wiring if the condition that caused the fault is corrected.

Note: Improper building wiring will prevent the Back-UPS from operating, but it will limit its protection capability. It may also result in equipment damage that is not covered by the APC by Schneider Electric Equipment Protection Policy.

4. Connect Equipment to the Back-UPS

The rear panel of the Back-UPS consists of the following elements:

- Battery Back Up Outlets (qty. of 3). These outlets provide battery back-up, surge protection, and Electro-magnetic Interference (EMI) filtering. In case of power outage, battery power is automatically provided to these outlets. Power (AC or battery) is not supplied to these outlets when the Back-UPS is switched off. Connect a computer, monitor, external disk or CD-ROM drive to these outlets.
- Surge Only Outlets (qty. of 3). These outlets are always (when AC power is available) and are not controlled by the On/Off switch. These outlets do not provide power during a power outage. Connect a printer, fax machine or scanner to these outlets.
- Black Velcro Straps (qty. of 2 - not shown). These straps have been included and can be used to manage power cords.
- Telephone Ports. These ports provide lightning surge protection for any device connected to the telephone line (computer, modem, fax or telephone). The telephone ports are compatible with Home PhoneLine Networking Alliance (HPNA) and Digital Subscriber Line (DSL) standards, as well as all modern digital devices. Connect as shown.

5. Switch On the Back-UPS

Note: Allow the Back-UPS to charge for a full eight hours prior to use.

Press the push button on the front panel of the Back-UPS.

Observe that the following events occur after pressing and releasing the push button:

- The green On-Line indicator flashes.
- The yellow On Battery indicator lights while the Self-Test is being performed.
- When Self-Test has successfully completed, only the green On-Line indicator will be lit.
- If the internal battery is not connected, the Step 1 above), the green On Line indicator and red Replace Battery indicator will light. The Back-UPS will also emit a chirping sound.

6. Connect USB Cable and Install Software (optional)

Note: Maccintosh Users - for full USB performance, use OS 10.5 or higher.

1. Plug the Back-UPS into the AC power source. The Back-UPS will be in a Standby Mode (no indicators lit).
2. Press the front panel push button fully inward for 10 seconds. All indicators on the Back-UPS will flash to acknowledge going into Programming Mode.
3. The Back-UPS will then indicate its current Sensitivity Setting, as shown in the following table.
4. To select the Low Sensitivity setting, press the push button until the yellow indicator is flashing.
5. To select the Medium Sensitivity setting, press the push button until the yellow and red indicators (second from the top) are flashing.
6. To select the High Sensitivity setting, press the push button until yellow and both red indicators (bottom three) are flashing.
7. To exit without changing the Sensitivity Setting, press the push button until the green indicator is flashing.
8. Once in Programming Mode, if the push button is not pressed within 5 seconds, the Back-UPS will exit Programming Mode; all indicators will extinguish.

7. Status Indicators and Alarms

There are four status indicators (lights) on the front panel of the Back-UPS (On Line, On Battery, Overload, and Replace Battery).

- Load - - is lit whenever power demand has exceeded the capacity of the Back-UPS.
- Continuous Tone - this alarm is sounded whenever the Battery Backup outlets are overloaded.
- Circuit Breaker - the circuit breaker button located on the rear panel of the Back-UPS will stick out if an overload condition forces the Back-UPS to disconnect itself from AC power. If the button sticks out, disconnect non-essential equipment. Reset the circuit breaker by pushing the button inward.
- Replace Battery - (red) - is lit whenever the battery is near the end of its useful life. If the battery is not connected (see above). A battery that is near the end of its useful life has insufficient runtime and should be replaced.

Transfer Voltage and Sensitivity Adjustment (optional)

In situations where the Back-UPS or connected equipment appears too sensitive to input voltage, it may be necessary to adjust the transfer voltage. This is a simple task requiring use of the front panel push button:

1. Plug the Back-UPS into the AC power source.
2. Press the front panel push button fully inward for 10 seconds. All indicators on the Back-UPS will flash to acknowledge going into Programming Mode.
3. The Back-UPS will then indicate its current Sensitivity Setting, as shown in the following table.
4. To select the Low Sensitivity setting, press the push button until the yellow indicator is flashing.
5. To select the Medium Sensitivity setting, press the push button until the yellow and red indicators (second from the top) are flashing.
6. To select the High Sensitivity setting, press the push button until yellow and both red indicators (bottom three) are flashing.
7. To exit without changing the Sensitivity Setting, press the push button until the green indicator is flashing.
8. Once in Programming Mode, if the push button is not pressed within 5 seconds, the Back-UPS will exit Programming Mode; all indicators will extinguish.

Inventory

Technical Specifications

8. USB PORT

RJ-45 to USB Cable

Overload - - is lit whenever power demand has exceeded the capacity of the Back-UPS.

Continuous Tone - this alarm is sounded whenever the Battery Backup outlets are overloaded.

Circuit Breaker - the circuit breaker button located on the rear panel of the Back-UPS will stick out if an overload condition forces the Back-UPS to disconnect itself from AC power. If the button sticks out, disconnect non-essential equipment. Reset the circuit breaker by pushing the button inward.

Replace Battery - (red) - is lit whenever the battery is near the end of its useful life. If the battery is not connected (see above). A battery that is near the end of its useful life has insufficient runtime and should be replaced.

Chirps for 1 Minute Every 5 Hours - this alarm is sounded whenever the battery has failed the automatic diagnostic test.

- Input Voltage: 120 Vac
- Frequency: 60 Hz
- Load: 750VA/450W
- Surge Protection: 10000 V
- Input: 120 Vac
- Output: 120 Vac
- Efficiency: 85%
- Protection: Surge, Spike, and Brownout
- Battery: 12V 7Ah Lead Acid
- Battery Life: 3 years
- Dimensions: 10" x 5" x 5"
- Weight: 10 lbs
- Compatibility: Mac, PC, and Printers
- Plug: NEMA 5-15P
- Electrical Rating: 120V, 60Hz
- UL Listed

- CE Marked
- ENERGY STAR

- 3 Year Limited Warranty

- 20-0001

- Version 1.0

- June 2013

- Schneider Electric

- 2013 Schneider Electric

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## Troubleshooting

Use the tables below to solve minor Back-UPS installation and operation problems. Consult or call Schneider Electric IT (SEIT) Technical Support for assistance with problems that cannot be resolved using this document.

### Possible Cause

<table>
<thead>
<tr>
<th>Procedure</th>
</tr>
</thead>
</table>
| Back-UPS will not switch on
| Check that the Back-UPS power plug is correctly connected to the wall outlet. |
| Back-UPS circuit breaker “tripped”
| Disconnect non-essential equipment from the Back-UPS. Restart the circuit breaker located on the rear of the wall outlet of the Back-UPS by pushing the circuit breaker button firmly inward until it clicks. If the circuit breaker resets, switch the Back-UPS on and reconfigure the equipment as necessary. |
| Battery requires replacement
| Replace battery. See “Order Replacement Battery.” |

### Order Replacement Battery

The typical battery lifetime is 3-6 years (depending on the number of discharge cycles and operating conditions). A replacement battery can be ordered online from APC by Schneider Electric, or the battery can be ordered on-line from the APC by Schneider Electric Web site (go to http://www.apc.com, a valid credit card is required). When ordering, please specify Battery Cartridge BRC2.

### Battery Replacement

Battery replacement is a safe procedure. The Back-UPS can be left on while the equipment connected during this procedure. Do not replace the battery while the Back-UPS is On Battery. Refer to the Safety Guide for additional information. Please consult the “Connect Battery” diagrams (a through d) on the front page of this document when performing the following procedures:

1. While viewing the Back-UPS from the front, lay the Back-UPS on its left side (diagram a).
2. The battery compartment cover is now back into place. The old battery must be recycled. Deliver the battery to an appropriate recycling facility or return it to APC by Schneider Electric. For the packing carton that came with the new battery. Additional recycling information is provided with the new battery.

### 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 eliminate common problems.
3. Call SEIT Technical Support for service.

### Warranty

The standard warranty is two (2) years from the date of purchase. Schneider Electric IT (SEIT) standard procedure is to replace the Back-UPS unit with a factory-reconditioned unit. Customers who must have the original unit back due to the assurance of asset跟踪 and security mandates must declare a need at first contact with an SEIT Technical Support representative. SEIT will ship the replacement 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 SEIT. SEIT pays ground freight transportation costs to ship the replacement unit to the customer.

### EMI Compliance

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful 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:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced technician for help.

### Specifications

| Input Voltage (on line) | 90 - 139 Vac |
| Frequency Limits (on line) | 45 – 65 Hz (transmitting) |
| On Battery Waveform | Step-up sine wave |
| Maximum Load | 350 VA - 210 W 500 VA - 500 W |
| Typical Run-Time | 8 Hours |
| Operating Temperature | 32° to 104°F (0° to 40°C) |
| Storage Temperature | 15° to 113°F (-5° to 45°C) |
| Operating and Storage Relative Humidity | 5% to 95%, non-condensing |
| Size (H x W x D) | 6.5 x 3.6 x 11.2 inches (16.5 x 9.2 x 28.5 cm) |
| Weight | 350 VA - 12.9 lb (5.9 kg) 500 VA - 13.8 lb (6.3 kg) |
| Shipping Weight | 350 VA - 14.0 lb (6.4 kg) 500 VA - 14.9 lb (6.8 kg) |
| FCC Classification | FCC/DOT Class B Certified |
| On Battery Run-Time | 350 VA - 13.8 Minute typical - desktop computer and 17 inch monitor (41.2 cm) monitor |
| 500 VA - 10.7 Minute typical - desktop computer and 21 inch (53.3 cm) monitor. |

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