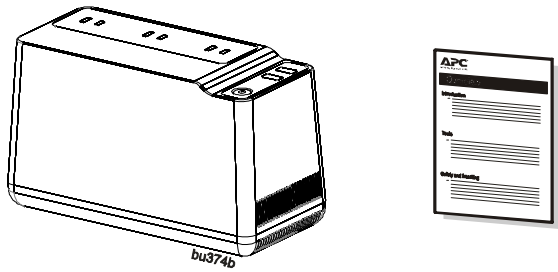


Inventory



Safety and General Information



Inspect the package contents upon receipt. Notify the carrier and dealer if there is any damage.

Read the Safety Guide supplied with this unit before installing the UPS.

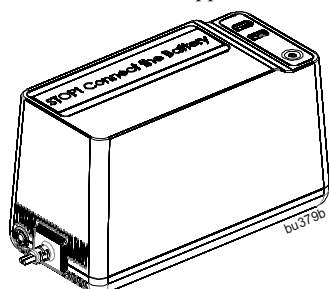
- This unit is designed for low power devices less than 75 Watts. When the UPS is on battery, the unit will shut down automatically to protect itself once the load on the UPS is greater than 75Watts.
- This UPS is intended for indoor use only.
- Do not operate this UPS in direct sunlight, in contact 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 three to five years. Environmental factors impact battery life. Elevated ambient temperatures, poor quality AC power, and frequent short duration discharges will shorten battery life.
- Connect the UPS power cable directly to a wall outlet. Do not use surge protectors or extension cords.

Specifications

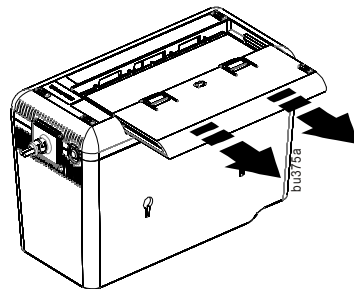
Input	Voltage	120 Vac Nominal
	Frequency	50/60 Hz \pm 3Hz auto-sensing
	Brownout Transfers	92 Vac Typical
	Over-voltage Transfer	139 Vac Typical
Output	UPS Capacity	125 VA, 75 W
	Total Amperage (AC outlets)	1.04 A
	Voltage - On Battery	115 Vac \pm 8%
	Frequency - On Battery	50/60 Hz \pm 1
	Transfer Time	6 ms Typical, 10 ms maximum
USB Ports	* Charging Currents	2.5A (Total)
	- USB (top)	- 1.5A (Maximum)
	- USB (bottom)	- 1.0A (Maximum)
	Charger compatibility	USB Battery Charging Specification 1.2
	* Power output is dependent power drawn by the connected device. Check your device manufacturer to understand the maximum charging current for a given USB spec.	
Protection and Filtering	AC Surge Protection	Full time, 90 Joules
	EMI/RFI Filter	Full time
	AC Input	Resettable circuit breaker
Battery	Type	Sealed, maintenance-free, lead acid 12V (12Vx1)
	Average Life	3 - 5 years depending on the number of discharge cycles and environmental temperature
	Charging Time	6 hours. Using the USB ports while charging the battery will increase the amount of time required.
Physical	Net Weight	6.6 lb (3.0 kg)
	Dimensions	8.9 in x 4.1 in x 5.2 in
	Length x Width x Height	22.5 cm x 10.5 cm x 13.2 cm
	Operating Temperature	32° F to 104° F (0° C to 40° C)
	Storage Temperature	5° F to 113° F (-15° C to 45° C)
	Operating Relative Humidity	0 to 95% non-condensing humidity
	Operating Elevation	0 to 10,000 ft (0 to 3000 m)

Connect the Battery

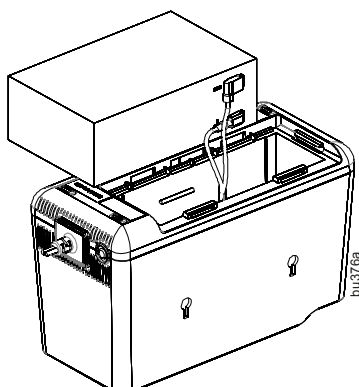
The Back-UPS is shipped with one battery cable disconnected.



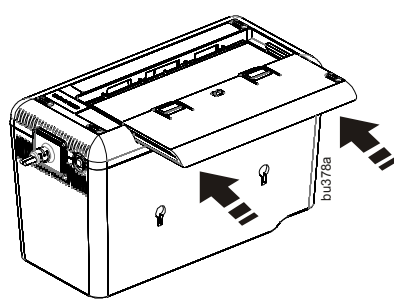
1 Remove the "Stop! Connect the Battery" label that covers the outlets.



2 Press the battery compartment cover release tabs located on the underside of the unit. Slide the battery cover off.

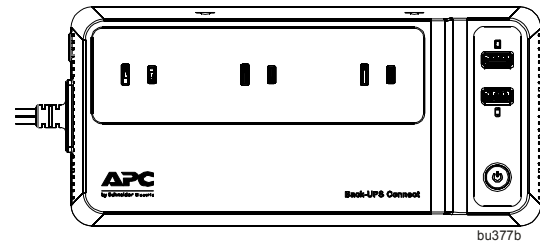


3 Connect the battery cable securely to the battery terminal. It is normal for small sparks to be seen when the battery cable is connected to the battery terminal.



4 Reinstall the battery compartment cover. Be sure that the release tab locks into place.

Connect Equipment



Battery Backup Outlets

Battery backup outlets provide protection from power surges and spikes for connected equipment when the Back-UPS is turned on and connected to AC power.

Battery backup outlets provide power for a limited period of time when a power outage, or brownout condition occurs.

Connect low power devices such as broadband modems, wireless routers and Voice Over IP (VOIP) phones to the outlets.

To maximize runtime during a power outage only connect critical equipment to the UPS.

This UPS is designed to sustain low power devices for extended periods of time. When the UPS is on battery, the unit will shut down automatically if the load on the UPS exceeds 75Watts. Low power devices include modems, routers, USB chargers, VOIP and cordless phones.

USB charging ports

The two USB ports provide a total of 2.5A of DC power.

Both USB ports will provide power when the unit is on battery.

To maximize charging efficiency the top port is used for tablets and the bottom port (closer to the power button) for smart phones although both can be used for either.

Turn On the Back-UPS

Press the POWER ON button located on the top of the Back-UPS. The **Power On/Replace Battery** LED will illuminate and a single short beep will be audible to indicate that the Back-UPS is providing protection for connected equipment.

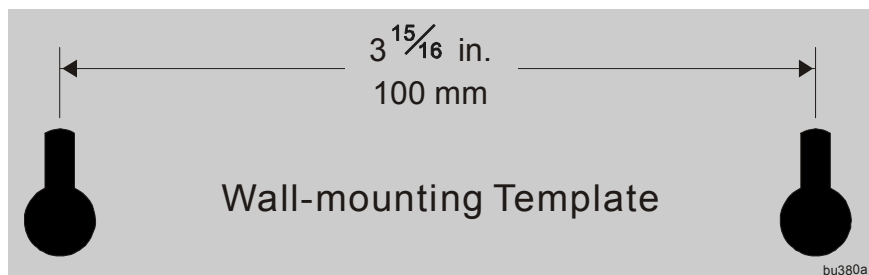
The Back-UPS battery charges fully during the first 6 hours while connected to AC power. The Back-UPS battery will charge while the Back-UPS is switched on or off and is connected to AC power. Do not expect full battery run capability during the initial charging period. Using the USB ports while charging the battery will increase the amount of time required.

Status Indicators

Status	Power Button LED	Audible Indicator On	Audible Indicator Terminates
Power On The Back-UPS is supplying AC power to connected equipment.	The LED illuminates green.	None	N/A
On Battery Back-UPS supplying battery power to battery backup outlets.	The LED illuminates green. The LED flashes once at the end of every 2 seconds.	None	N/A
Low Battery warning The Back-UPS is supplying battery power to the battery backup outlets and the battery is near a total discharge state.	The LED illuminates green and flashes in rapid succession.	The Back-UPS emits 4 rapid beeps, every 30 seconds.	Beeping stops when AC power is restored or the Back-UPS is turned off.
Replace Battery • The battery is disconnected. • The battery needs to be charged, or replaced.	• The LED illuminates red only. • The LED alternately illuminates green-red.	• Constant tone • Constant tone	Back-UPS is turned off.
Overload Shutdown While on battery power an overload condition has occurred in one or more of the battery backup outlets while the Back-UPS is operating on battery power.	None	Constant tone	Back-UPS is turned off.
Sleep Mode While the Back-UPS is on battery power, the UPS will shut down when the battery is completely discharged. The Back-UPS will "awaken" once AC power is restored.	None	None	N/A
USB Fault An error has occurred in the USB charger.	The LED illuminates amber.	None	N/A

Wall Mount Installation

- Horizontal installation, use 2 screws 3-15/16" (100 mm) apart.
- Allow 5/16" (8 mm), of the screw to protrude from the wall.



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. Connect the Back-UPS to a wall outlet. The Back-UPS will be in **Standby** mode, no indicators will be illuminated.
2. Press and hold the **ON/OFF** button for 10 seconds. The **OnLine** LED will illuminate alternately green-red, to indicate that the Back-UPS is in **Program** mode.
3. The **Power On/Replace Battery** LED will flash either green, amber, or red to indicate the current sensitivity level. Refer to the table for an explanation of the transfer voltage sensitivity levels.
4. To select **LOW** sensitivity, press and hold the **ON/OFF** button until the LED flashes green.
5. To select **MEDIUM** sensitivity, press and hold the **ON/OFF** button until the LED flashes red.
6. To select **HIGH** sensitivity, press and hold the **ON/OFF** button until the LED flashes amber.
7. To exit **Program** mode wait five seconds and all LED indicators will extinguish. **Program** mode is no longer active.

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 fluctuations in 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.

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 BGE90M/90M-CA is **APCRBC106**.

Warranty

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 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.

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.
2. If the problem persists, contact Schneider Electric IT (SEIT) Customer Support through the APC by Schneider Electric Web site, www.apc.com.
 - 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 Returned 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. Never use foam beads for packaging. Damage sustained in transit is not covered under warranty.
4. **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.
5. Write the RMA# provided by Customer Support on the outside of the package.
6. Return the unit by insured, pre-paid carrier to the address provided by Customer Support

Troubleshooting

Problem and Possible Cause	Solution
The Back-UPS will not turn on	
The Back-UPS has not been turned on.	Press the POWER ON button.
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 at the wall outlet. Where applicable, check that the wall outlet is switched on. In the event that the Back-UPS receives no AC power and the battery is connected, a cold-start can be initiated. Press and hold the Power On button until the Back-UPS emits two beeps.
The Back-UPS is on, the Replace Battery LED flashes and the unit emits a constant tone	
The battery is disconnected.	Refer to "Connect the Battery" on page 1.
Connected equipment loses power	
A Back-UPS overload condition has occurred.	Remove all nonessential equipment connected to the outlets. Reconnect equipment to the Back-UPS, one device at a time.
The Back-UPS battery is completely discharged.	Connect the Back-UPS to AC power to allow the battery to recharge.
Connected equipment does not accept the step-approximated sine waveform from the Back-UPS.	The output waveform is intended for networking equipment and other low power devices. It is not intended for use with motor driven equipment
The Back-UPS may require service.	Contact Schneider Electric IT (SEIT) Technical Support for more in depth troubleshooting.
The Power On LED and flashes once at the end of every 2 seconds	
The Back-UPS is operating on battery power.	The Back-UPS is operating normally on battery power. When AC power is restored the battery will recharge.
The Power On LED flashes green in rapid succession while the Back-UPS emits 4 rapid beeps, every 30 seconds	
The Back-UPS battery has approximately two minutes of remaining runtime.	The Back-UPS battery is near a total discharge state. When AC power is restored the battery will recharge.
The Back-UPS has an inadequate battery runtime	
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 6 hours while the battery charges to full capacity. Using the USB ports while charging the battery will increase the amount of time required. As a battery ages, the runtime capability decreases. Contact APC by Schneider Electric at the Web site www.apc.com , to order replacement batteries.
USB charging is slow	
Charging a device using the UPS's USB charger is slower than the device's original USB charger	The amount of power a device draws depends on its compatibility with the USB Battery Charging Specification 1.2. Compatible devices can draw more power than devices that are less compatible.
USB charging stops and the Power On LED illuminates amber	
The USB ports are overloaded or has encountered an error.	Disconnect device(s) from the USB port(s). USB charging will resume when the LED turns green. Contact SEIT Technical Support if the LED remains amber.

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, and (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/