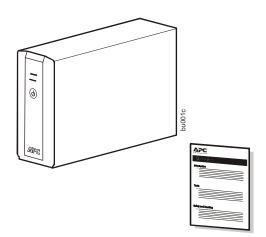


Installation and Operation Back-UPS[™] BX800CI-LM/BX1100CI-LM

Inventory



Safety and General Information



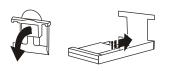
Inspect the package contents upon receipt. Notify the carrier and dealer if there is any damage.

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

- This 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 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.

Connect the Battery

Connect the battery connector prior to using the UPS.



Pull the battery connector handle down. Then push the connector into the UPS.

The battery charges fully during the first 10 hours while the Back-UPS is operating on AC power.

Do not expect full runtime capability during the initial charge period.

There are no serviceable parts in the Back-UPS. Do not attempt to open or repair the Back-UPS as this will void the warranty. The battery in this unit is not replaceable. Contact APC by Schneider Electric through the Web site www.apc.com, for customer support.

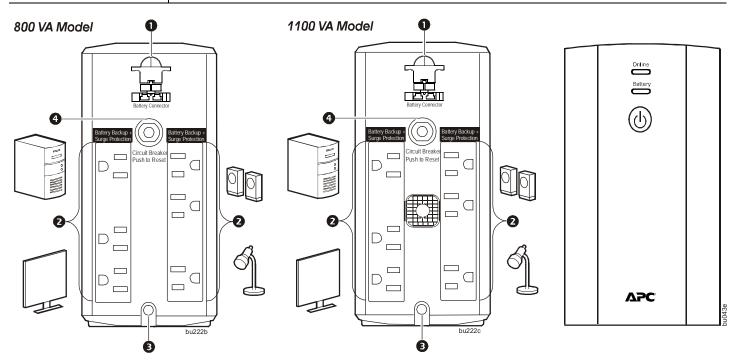
Battery Replacement

The battery in the Back-UPS BX800CI-LM and BX1100CI-LM is not user-replaceable. Contact Schneider Electric Sales and Technical Support for a list of authorized service centers near you.

Installation

Connect the Equipment

Battery Connector	Connect the battery. Refer to "Connect the Battery" on page 1.				
 Battery Backup + Surge Protection outlets 	These outlets provide battery backup power to connected equipment for a limited period of time during power outages and voltage fluctuations.				
	The Battery Backup + Surge Protection outlets provide battery power to connected equipment only when the Back-UPS is turned on.				
	Connect critical equipment such as a computer, computer monitor, modem or other data sensitive devices to these outlets.				
	Do not connect aquarium equipment, laser printers, paper shredders, sump pumps, or fans to these outlets as the modified sine wave output of the Back-UPS may cause these devices to experience a decrease in performance.				
	Do not connect surge protectors or extension cords to these outlets.				
3 AC Power Cable	Use this cable to connect the Back-UPS to AC power.				
Circuit breaker	Use to reset the system after an overload condition has occurred causing the circuit breaker to trip.				



Turn On the Back-UPS

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

Status Indicators

Status	LED Indicator	Audible Indicator On	Audible Indicator Terminates
Power On The Back-UPS is supplying AC power to connected equipment.	The On Line LED illuminates green.	None	N/A
On Battery The Back-UPS is supplying battery power to battery backup outlets.	The On Line LED illuminates green. The LED is not illuminated during the beeps.	Back-UPS beeps 4 times every 30 seconds.	The beeping stops when AC power is restored or the Back-UPS is turned off.
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 On Line LED flashes green.	The Back-UPS emits rapid beeping. (once every second)	The 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 Battery LED flashes red. Battery and On Line LEDs flash alternately. 	Constant tone	The Back-UPS is turned off.
Overload Shutdown While operating on battery power an overload condition has occurred in one or more of the battery backup outlets.	None	Constant tone	The Back-UPS is turned off.
Sleep Mode While operating on battery power the battery is completely discharged. The Back-UPS will "awaken" once AC power is restored.	None	The Back-UPS beeps once every four seconds.	 AC power is restored AC power is not restored within 32 seconds The Back-UPS is turned off
Overload Alarm The equipment connected to the Back-UPS is drawing more power than the voltage rating allows.	The Battery LED illuminates red.	Constant tone	Alarm stops when nonessential equipment is disconnected from the Battery Backup outlets.

Transfer Voltage and Sensitivity Settings

Automatic Voltage Regulation

Automatic Voltage Regulation boosts the AC voltage when it drops below safe levels. This allows the equipment that is connected to the Back-UPS to operate during low voltage conditions. Automatic Voltage Regulation will also regulate high voltage conditions down to a safe level.

The Back-UPS will switch to battery power if the AC input voltage level becomes too low or too high for the Automatic Voltage Regulation feature to compensate, or if the AC power is experiencing voltage fluctuations.

No-load Shutdown

The UPS will shut down to conserve energy if while operating on battery power the UPS detects that connected equipment is using less than 15 W of energy for more than 15 minutes.

No-load shutdown can be enabled or disabled through **Program** mode described below.

Voltage Sensitivity Adjustment

If the Back-UPS switches to battery power too frequently or too infrequently, adjust the transfer voltage and sensitivity settings:

- 1.Verify that the Back-UPS battery is connected. Connect the Back-UPS to a wall outlet. The Back-UPS should be turned off.
- 2.Press and hold the POWER ON/OFF button for 10 seconds. The LEDs will illuminate green and red alternately, to indicate that the Back-UPS is in **Program** mode.
- 3. The LEDs will flash either green, red or green and red alternately to indicate the current sensitivity level. The Back-UPS will beep to indicate that No-load Shutdown is enabled. Refer to the table for an explanation of the transfer voltage sensitivity levels.
- 4.To select LOW sensitivity, press the ON/OFF button until the On Line LED flashes green.
- 5.To select MEDIUM sensitivity, press the ON/OFF button until the Battery LED flashes red.
- 6. To select HIGH sensitivity, press the ON/OFF button until the **On Line** and **Battery** LEDs flash green and red alternately.
- 7.To exit **Program** mode wait for five seconds and both LEDs will extinguish. **Program** mode is no longer active.

LED Flashes	Audible Indicator	Voltage Sensitivity Setting	Input Voltage Range	No-load Shutdown	Recommended Use
Green	None	Low	75-140	Disabled	Use this setting with equipment that is less sensitive to fluctuations in voltage or waveform distortions.
Green	4 beeps per second	Low	75-140	Enabled	Use this setting with equipment that is less sensitive to fluctuations in voltage or waveform distortions.
Red	None	Medium	77-140	Disabled	Use this setting for normal operation conditions.
Red	4 beeps per second	Medium (factory default)	77-140	Enabled	Use this setting for normal operation conditions.
Green and Red	None	High	80-140	Disabled	Use this setting when connected equipment is sensitive to voltage fluctuations or waveform distortions.
Green and Red	4 beeps per second	High	80-140	Enabled	Use this setting when connected equipment is sensitive to voltage fluctuations or waveform distortions.

Troubleshooting

Problem	Possible Cause	Corrective Action	
Back-UPS will not turn on.	The Back-UPS is not connected to AC power.	Be sure that the Back-UPS is securely connected to an AC outlet.	
	The circuit breaker has been tripped.	Disconnect nonessential equipment from the Back-UPS. Reset the circuit breaker. Reconnect equipment one item at a time. If the circuit breaker is tripped again, disconnect the device that caused the short circuit.	
	The internal battery is not connected.	Connect the battery connector. Refer to "Connect the Battery" on page 1.	
	The AC input voltage is out of range.	Adjust the transfer voltage and sensitivity range.	
The Back-UPS is operating on battery power, while connected to AC power.	 The Back-UPS power cable is not securely connected to the wall outlet. The wall outlet is no longer receiving 	Verify that the power cable plug is securely connected to the wall outlet.	
	AC power.The circuit breaker has been tripped.	Verify that the wall outlet is receiving AC power by checking it with another device.	
	The Back-UPS is performing an automatic self test.	No action is necessary.	
	The AC input voltage is out of range.The frequency is out of range.The waveform is distorted.	Adjust the transfer voltage and sensitivity range.	
The Back-UPS does not provide the expected amount of backup	Battery Backup outlets may be fully or improperly loaded.	Disconnect non-essential equipment from the Battery Backup outlets.	
time.	The battery was recently discharged due to a power outage and has not fully recharged.	Charge the battery cartridge for eight hours.	
	The battery has reached the end of its useful life.	Replace the battery.	
The BATTERY and ON LINE LEDs flash alternately.	The battery has reached the end of its useful life.	Replace the battery.	
The BATTERY LED is illuminated and the Back-UPS emits a constant tone.	The connected equipment is drawing more power than the Back-UPS can provide.	Disconnect nonessential equipment from the Battery Backup outlets.	

Specifications

Specification		BX800CI-LM	BX1100CI-LM	
Input	Voltage	120 Vac, nominal		
	Frequency	50 Hz ±3 Hz, 60 Hz ±3 Hz		
	Brownout Transfer	ansfer 75 Vac, typical		
	Over-voltage Transfer	140 Vac, typical		
Output	UPS Capacity (total)	800 VA / 480 W	1100 VA / 660 W	
	Voltage On Battery	120 Vac rms (step-approximated sinewave)		
	Frequency on Battery	50 Hz ±1 Hz, 60 Hz ±1 Hz		
	Transfer Time	8 ms typical		
Protection and	AC Surge Protection	Full time, 273 Joules		
Filtering	AC Input	Resettable circuit breaker		
Battery	Type (maintenance free)	12 V 9 Ahr	Each battery 12 V 7.2 Ahr	
	Average Life	2 - 5 years depending on the number of discharge cycles and environmental temperature		
	Typical Recharge Time	8 Hours		
Physical	Net Weight	8 kg	12 kg	
	Dimensions (H x W x D)	21.5 cm x 13 cm x 33.6 cm		
	Operating Temperature	0 °C to 40 °C (32 °F to 104 °F)		
	Storage Temperature	-15 °C to 45 °C (5 °F to 113 °F)		
	Operating Relative Humidity	y 0 to 95% non-condensing		
	Operating Elevation	tion 0 to 3000 m (0 to 10,000 ft)		
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. 			

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 APC 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 APC 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.

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

Warranty

The standard warranty is three (3) years from the date of purchase. Schneider Electric (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.

© 2013 APC by Schneider Electric. APC, the APC logo, and Back-UPS are owned by Schneider Electric Industries S.A.S., or their affiliated companies. All other trademarks are property of their respective owners.