

by Schneider Electric

1 Safety and General Information



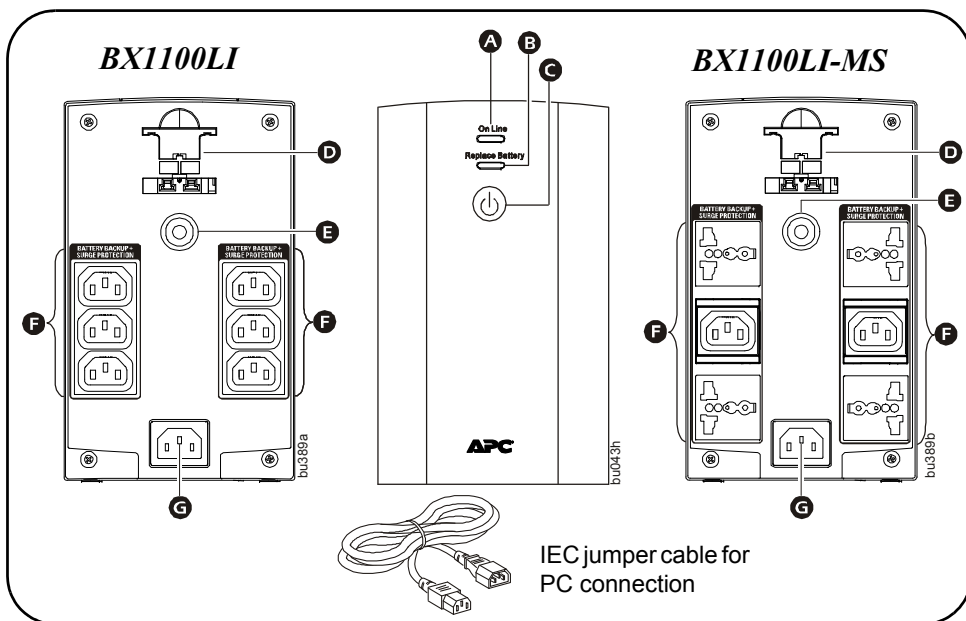
Inspect the package contents upon receipt. Notify the carrier and dealer if there is any damage.

Read the following reminders before installing the UPS.

- This UPS is intended for indoor use only.
- Connect the UPS power cable directly to a wall outlet. Do not use surge protectors or extension cords.
- When grounding cannot be verified, disconnect the equipment from the AC power outlet before installing or connecting to other equipment. Reconnect the power cord after all connections are made.
- Servicing of batteries should be performed by Schneider Electric IT (SEIT) Customer Support only.
 - When replacing battery the UPS must be OFF, and its AC inlet unplugged.
 - Do not dispose of batteries in a fire. The batteries may explode.
 - Do not open or mutilate batteries. They contain an electrolyte that is toxic and harmful to the skin and eyes.
 - To avoid harmful injury due to energy hazard, remove wrist watches and jewelry such as rings when replacing the batteries. Use tools with insulated handles.
- Replace batteries with the same number and type of batteries as originally installed in the equipment.

3 Features

- A** On Line indicator
- B** Battery indicator
- C** Power button
- D** Battery connector
- E** Circuit breaker
- F** Battery Backup + Surge Protection outlets
- G** AC Power Inlet



5 Operational Features

Automatic Voltage Regulation

Automatic Voltage Regulation boosts/trims the AC voltage when it drops/exceeds safe levels. This allows the equipment that is connected to the Back-UPS to operate during low/high voltage conditions, conserving the battery power in the event of a power cut.

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

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

- Verify that the Back-UPS battery is connected. Connect the Back-UPS to a wall outlet. The Back-UPS should be turned off.
- 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.
- 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.
- To select **LOW** sensitivity, press the **ON/OFF** button until the **On Line** LED flashes green.
- To select **MEDIUM** sensitivity, press the **ON/OFF** button until the **Battery** LED flashes red.
- To select **HIGH** sensitivity, press the **ON/OFF** button until the **On Line** and **Battery** LEDs flash green and red alternately.
- To exit **Program** mode wait for five seconds and both LEDs will extinguish. **Program** mode is no longer active.

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.

When the UPS is reconnected to AC power, the UPS will automatically switch on.

LED Flashes	Audible Indicator	Voltage Sensitivity Setting	Input Voltage Range	No-load Shutdown	Recommended Use
Green	None	Low	150-280	Disabled	Use this setting with equipment that is less sensitive to fluctuations in voltage or waveform distortions.
Green	4 beeps per second	Low	150-280	Enabled	Use this setting with equipment that is less sensitive to fluctuations in voltage or waveform distortions.
Red	None	Medium	155-280	Disabled	Use this setting for normal operation conditions.
Red	4 beeps per second	Medium (factory default)	155-280	Enabled	Use this setting for normal operation conditions.
Green and Red	None	High	160-280	Disabled	Use this setting when connected equipment is sensitive to voltage fluctuations or waveform distortions.
Green and Red	4 beeps per second	High	160-280	Enabled	Use this setting when connected equipment is sensitive to voltage fluctuations or waveform distortions.

Warranty

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

The standard warranty is two (2) years from the date of purchase. 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.

2 Connect the Battery

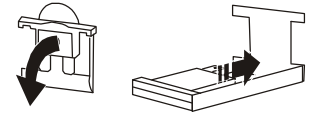
1 Connect the battery by pulling the battery connector handle down, and then pushing it into the unit.

2 Replace PC's input cord with the supplied IEC jumper cable, and use the PC's input cord to connect UPS.
Note: BX1100LI-MS comes with an extra power cord for connection to a wall outlet.

3 Press the ON/OFF button to turn on the unit.

The green "Power On" indicator confirms that the Back-UPS is on and ready to provide protection.

The Back-UPS should charge for at least 10 hours to ensure sufficient runtime. The unit is being charged whenever it is connected to AC power, whether the unit is turned ON or OFF.



4 Status Indicators

On-line (Green)	Replace Battery (Red)	Audible Alarm	Condition
On	-	Off	On-line - The Back-UPS is supplying AC power to the connected equipment
-	On	Constant Tone	On Line Overload - The power being used by the connected equipment has exceeded the capacity of the unit. Disconnect some equipment
On	-	Constant beeping	Over-temperature Warning - The unit is overheating and will shut down if the temperature is not lowered. Disconnect some of the connected equipment.
On	-	4 beeps repeated every 30 seconds	On-Battery - The Back-UPS is supplying battery power
Flashing	-	Rapid Beeping (every 1/2 second)	Low Battery Warning - The Back-UPS has 2 minutes of runtime remaining
Flashing Alternately	-	Constant tone	Bad Battery Detected - The battery needs to be charged, or is at end of life.
-	Flashing	Chirp every 2 seconds	Charger Warning - The Back-UPS has experienced an internal problem, but is still providing power to the connected equipment. Contact Schneider Electric IT (SEIT) Technical Support
Off	-	Short beep every 4 seconds	Low Battery Shutdown - During On Battery operation the battery power was almost completely exhausted, and the Back-UPS is waiting for AC power to return to normal
		Constant Tone	On Battery Overload - The connected equipment requires more power than provided by the Back-UPS battery. Unplug devices one at a time to remove overload. If the problem is not corrected, contact SEIT Technical Support
		Constant Tone	Charger Fault - Back-UPS has an internal problem. The AC input is present but is no powering the load. Contact SEIT Technical Support
		Long beep every 4 seconds	Over-temperature Protected - The Back-UPS has overheated and has shut down. Unplug connected devices one at a time or wait a few hours for system to cool down.

6 Specifications

Specification	BX1100LI	BX1100LI-MS
Input	Voltage	220 - 240 Vac
	Frequency	50/60 Hz ±3 Hz (Auto-sensing)
	Brownout Transfer	155 Vac, typical
	Over-voltage Transfer	280 Vac, typical
Output	UPS Capacity (total)	1100 VA / 550 W
	Voltage On Battery	230 Vac rms
	Frequency on Battery	50/60 Hz ± 1 Hz
	Transfer Time	4 ms typical
Protection	AC Input	Resettable circuit breaker
	Battery	
	Type (maintenance free, lead acid)	12 V, 9 AH
	Average Life	The battery typically lasts for three to five years. Environmental factors impact battery life. Elevated temperatures, high humidity, poor quality mains power, and frequent, short duration discharges will shorten battery life. The battery in the Back-UPS BX1100LI Series is not user-replaceable. Contact SEIT Technical Support for a list of authorized service centers near you.
	Typical Recharge Time	6 hours
Physical	Net Weight	8.8 kg 9.2 kg
	Dimensions (H x W x D)	21.5 cm x 13 cm x 33.6 cm

Troubleshooting and Service

- If the problem persists, contact Schneider Electric IT (SEIT) Customer Support through the Schneider Electric Web site, www.apc.com.
 - 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.
 - 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#).
 - If the unit is under warranty, the repairs are free.
 - Service procedures and returns may vary internationally. Refer to the Schneider Electric Web site for country specific instructions.
- Prepare to troubleshoot the problem over the phone. If this is not successful, and the unit is still under warranty, the Technical Support Representative will provide all necessary information to return the unit for replacement

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.