



by Schneider Electric

Back-UPS™ BX650LI-GR

User Guide

1 Safety and General Information

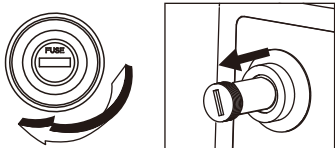
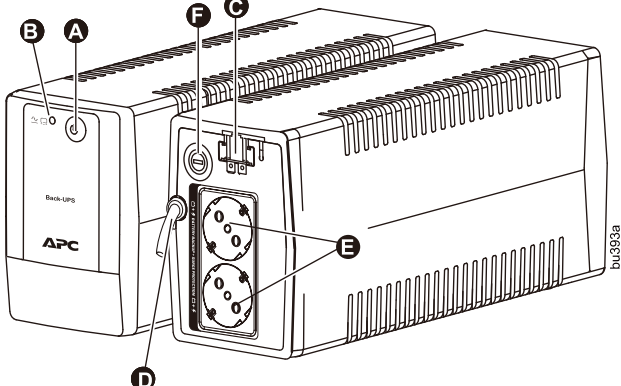


Inspect the package contents upon receipt. Notify the carrier and dealer if there is any damage.
Read the following reminders before installing the UPS.

- 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/OFF button
- B** LED status indicator
- C** Battery connector
- D** Input power cord
- E** Battery and surge protected outlets
- F** Fuse



Fuse Replacement
A spare fuse is provided in every Back-UPS unit. Once the input current exceeds 5A, the installed fuse in every unit will burn to safeguard connected equipment from excessive input currents. Replace it using the spare fuse, or with a fuse that has similar input current rating.

5 Status Indicators

LED	Audible Alarm	Condition
On	Off	On-line - The Back-UPS is supplying AC power to the connected equipment
	Constant Tone	On Line Overload - The power being used by the connected equipment has exceeded the capacity of the unit. Disconnect some equipment.
	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 (Off during 4 beeps)	4 beeps repeated every 30 seconds	On-Battery - The Back-UPS is supplying battery power.
	Flashing	Low Battery Warning - The Back-UPS has 2 minutes of runtime remaining.
Off	Rapid Beeping (every 1/2 second)	Bad Battery Detected - The battery needs to be charged, or is at end of life. (See <i>Battery Replacement</i> .)
	Constant tone	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, and is no longer powering the load. Contact SEIT Technical Support
Off	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 for a few hours for system to cool down.

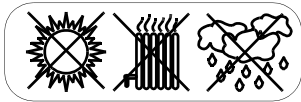
Warranty

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.

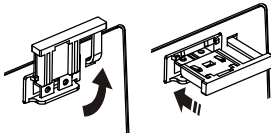
2 Place and Power On

- Place the Back-UPS to avoid:
 - Direct sunlight
 - Excessive heat
 - Excessive moisture



For safety operation, please place the unit on the floor.

- Connect the battery by pulling the battery handle up, and then pushing it into the unit.
- Plug the Back-UPS BX650LI-GR power cord directly into a wall outlet, not into a surge protector or power strip.
- 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 charger for at least 6 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 Specifications

Input	Voltage / Frequency	230 VAC / 50 Hz or 60 Hz
	Brownout Transfer / Over-voltage Transfer	170 VAC, typical / 280 VAC, typical
Output	UPS Capacity (total)	650 VA / 325 W
	Voltage On Battery	230 Vac rms
	Frequency - On Battery	50 Hz / 60 Hz $\pm$ 1Hz
	Transfer Time	6ms typical
Protection	AC Input	Fuse
Battery	Type (maintenance-free)	12V, 7 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 BX650LI Series is not user-replaceable. Contact SEIT Technical Support for a list of authorized service centers near you.
	Typical Recharge Time	4-6 Hours
Physical	Net Weight	4.4 kg
	Dimensions (H x W x D)	14.2 cm x 10.1 cm x 30 cm

6 Operational Features

Automatic Voltage Regulation (AVR)

Automatic Voltage Regulation boosts/trims the AC voltage when it drops/exceeds safe levels. This allows the equipment plugged into the unit 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 input voltage level becomes too low/high for the Automatic Voltage Regulation to compensate, or if the AC power is distorted.

No-load Shutdown

If the UPS is operating on battery power and detects that the connected equipment is using less than 15W of energy for more than 15 minutes, it will shut down to conserve energy. When the UPS is reconnected to AC power, the UPS will automatically switch on.

Troubleshooting and Service

- If the problem persists, contact Schneider Electric IT (SEIT) Customer Support through the APC by 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 it 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 APC by 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 SEIT 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.