User Manual

EN JPW005208 – 05/2026

Back UPS BR700G, BX850M/BX1000M/-LM60, BX1350M/BX1500M/-LM60

Important Safety Instructions

SAVE THESE INSTRUCTIONS - This manual contains important instructions that should be followed during installation and maintenance of the UPS and batteries.

Read the Safety Guide supplied with the equipment to become familiar with the safety requirements before trying to install or operate the UPS.

Read the user documentation to become familiar with the equipment before trying to install or operate it.

The following special messages may appear throughout this document or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure.

The addition of this symbol either to a “Danger” or “Warning” safety label indicates that an electrical hazard exists that will result in personal injury if the instructions are not followed.

This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

⚠ DANGER

DANGER indicates a hazardous situation which, if not avoided, **will result in** death or serious injury.

⚠ WARNING

WARNING indicates a hazardous situation which, if not avoided, **could result in** death or serious injury.

⚠ CAUTION

CAUTION indicates a hazardous situation which, if not avoided, **could result** in minor or moderate injury.

NOTICE

NOTICE is used to address practices not related to physical injury.

Electrical equipment should be installed, operated and maintained only by qualified personnel. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material.

A qualified person is one who has skills and knowledge related to the construction, installation, and operation of electrical equipment and has received safety training to recognize and avoid the hazards involved.

Schneider Electric

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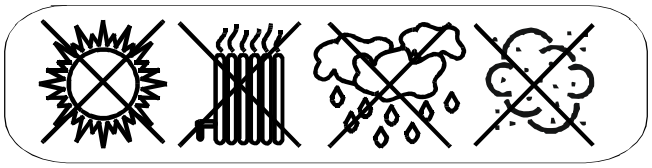
Product Handling Guidelines

 <18 kg <40 lb	 18-32 kg 40-70 lb	 32-55 kg 70-120 lb	 >55 kg >120 lb		

Safety and General Information



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

- Adhere to all national and local electrical codes.
- All wiring must be performed by a qualified electrician.
- Changes and modifications to this unit not expressly approved by Schneider Electric IT Corporation could void the warranty.
- This Back UPS is for indoor use only.
- Do not operate this Back UPS in direct sunlight, in contact with fluids, or where there is excessive dust or high humidity.
- Do not operate the Back UPS near open windows or doors. Be sure the air vents on the Back UPS are not blocked. Allow adequate space for proper ventilation. **NOTE:** Allow a minimum of 20 cm clearance on each sides of the Back UPS.
- Connect the Back UPS to an earthed mains socket.
- Connect the power cord of the Back UPS directly to a wall outlet. Do not use surge protectors or extension cords.
- Do not switch off the utility power to the Back UPS. Use the Back UPS POWER ON/OFF switch in the front panel to turn on or turn off power to the connected equipment.
- Do not attempt to disassemble the unit. The unit contains no user replaceable parts.
- In the event of an emergency, press the POWER ON/OFF button and disconnect the power cord from the utility power supply to completely disable the Back UPS.
- Do not connect equipments like medical equipment, life-support equipment, microwave ovens, laser printers or vacuum cleaners to Back UPS.
- For user safety, persons not authorized by Schneider Electric are not allowed to disassemble or repair this equipment.

Battery safety

⚠ CAUTION

RISK OF HYDROGEN SULPHIDE GAS AND EXCESSIVE SMOKE

- Replace the battery at least every 5 years or at the end of its service life.
- Replace the battery immediately when the Back UPS indicates battery replacement is necessary.
- Replace batteries with the same number and type of batteries as originally installed in the Back UPS.
- Replace the battery immediately when the Back UPS indicates a battery over-temperature condition, or when there is evidence of electrolyte leakage. Power off the Back UPS, unplug it from the AC input, and disconnect the batteries. Do not operate the Back UPS until the batteries have been replaced.

Failure to follow these instructions can result in minor or moderate injury and equipment damage.

- For the recycling battery information, go to apc.com/recycle.
- Servicing of batteries should be performed or supervised by personnel knowledgeable of batteries and the required precautions. Keep unauthorized personnel away from batteries.
- Schneider Electric uses Sealed Maintenance-Free Lead Acid batteries. Under normal use and handling, there is no contact with the internal components of the batteries. Over charging, over heating or other misuse of batteries can result in leakage of battery electrolyte. Released electrolyte is toxic and may be harmful to the skin and eyes.
- The battery typically lasts about three years. Environmental factors impact battery life. Elevated ambient temperatures, frequent short duration discharges due to poor quality utility power will shorten battery life.
- CAUTION: A battery can present a risk of electric shock and burns by high short-circuit current. The following precautions should be taken when working on batteries:
  - Disconnect the charging source prior to connecting or disconnecting battery terminals.
  - Do not wear any metal objects including watches and rings.
  - Do not lay tools or metal parts on top of batteries.
  - Use tools with insulated handles.
  - Wear rubber gloves and boots.
- CAUTION: Failed batteries can reach temperatures that exceed the burn thresholds for touchable surfaces.
- CAUTION: Before installing or replacing the batteries, remove conductive jewelry such as chains, wrist watches, and rings. High energy through conductive materials could cause severe burns.
- CAUTION: Do not dispose of batteries in a fire. The batteries may explode.
- CAUTION: Do not open or mutilate batteries. Released material is harmful to the skin and eyes and may be toxic.

FCC Class B Radio Frequency Warning

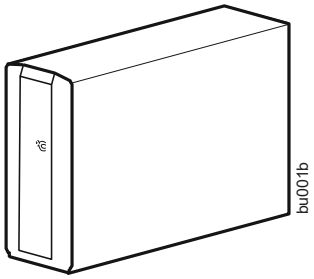
Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate 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 radio/TV technician for help.

CAUTION: Changes or modifications not expressly approved by Schneider Electric could void the user's authority to operate the equipment.

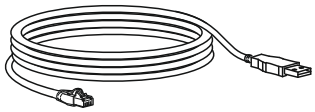
Inventory

Back UPS



User Documentation

USB Communication Cable



Product Description

The Schneider Electric Back UPS helps to offer power and surge protection for wireless networks, computers, gaming consoles and other electronics in your home or business. This UPS helps to provide battery backup during power outages and unstable voltage fluctuations, as well as helps to provide damage due to surges and spikes. These features help to protect your data and keep you connected.

Connect the Equipment

Battery Backup and Surge Protected outlets

When the Back-UPS is receiving input power, the Surge Protection only outlets and the Battery Backup with Surge Protection outlets will supply power to connected equipment. During a power outage or other AC problems, only the Battery Backup outlets receive power for a limited time from the Back-UPS.

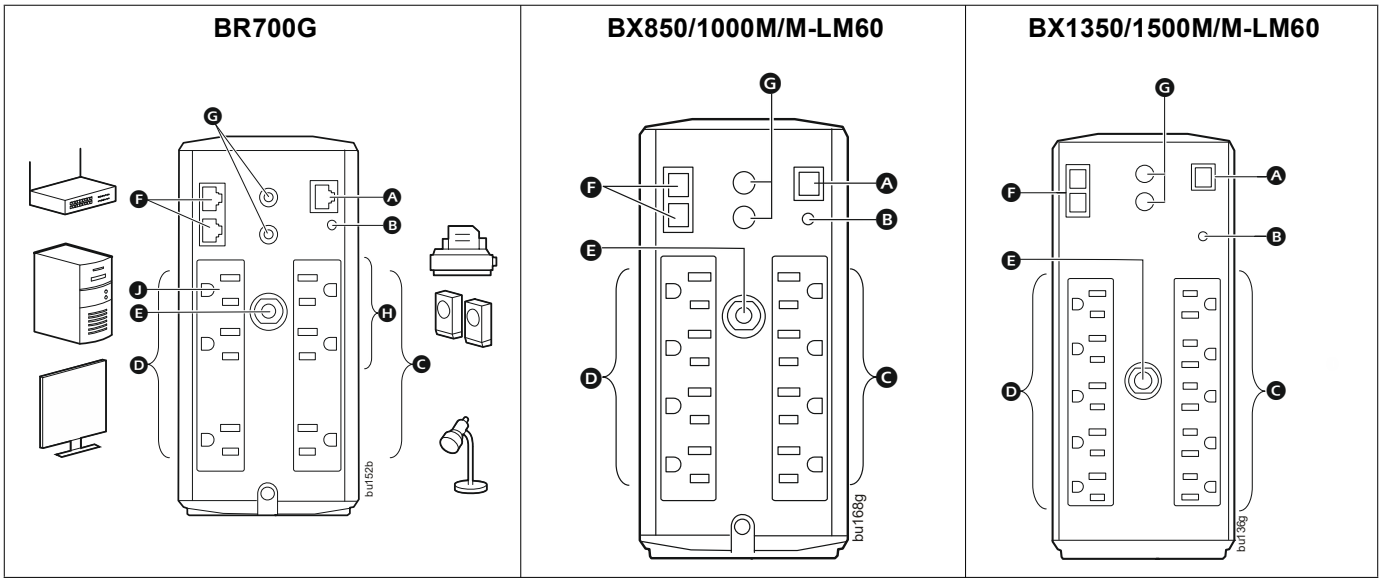
Connect equipment such as printers, fax machines, scanners, or other peripherals that do not need battery backup power to the Surge Protection Only outlets. These outlets provide full-time protection from surges even if the Back-UPS is switched OFF.

Master and Controlled outlets

To conserve electricity, when the device connected to Master Outlet goes into Sleep or Standby mode, or turns Off, the Controlled device(s) will shut down as well, saving electricity.

Product Overview

Rear Panel Features



A	**USB and Serial Data port**
B	**Building Wiring Fault indicator**
C	**Surge Protected outlets**
D	**Battery Backup outlets with Surge Protection**
E	**Circuit Breaker**
F	**In/Out Ethernet surge-protected ports**
G	**Coaxial ports with surge protection**
H	**Controlled by the Master outlets**
J	**Master outlet**

Operation

Power Saving Display

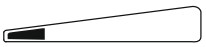
The display interface can be configured to be continuously illuminated, or to save energy, it can be configured to darken after a period of inactivity.

1. Full Time Mode: Press and hold DISPLAY for two seconds. The display will illuminate and the Back-UPS will beep to confirm the Full Time mode.
2. Power Saving Mode: Press and hold DISPLAY for two seconds. The display will darken and the Back-UPS will beep to confirm the Power Saving mode. While in Power Saving Mode, the display will illuminate if a button is pressed, it then darkens after 60 seconds of no activity.

Unit sensitivity

Adjust the sensitivity of the Back-UPS to control when it will switch to battery power; the higher the sensitivity, the more often the Back-UPS will switch to battery

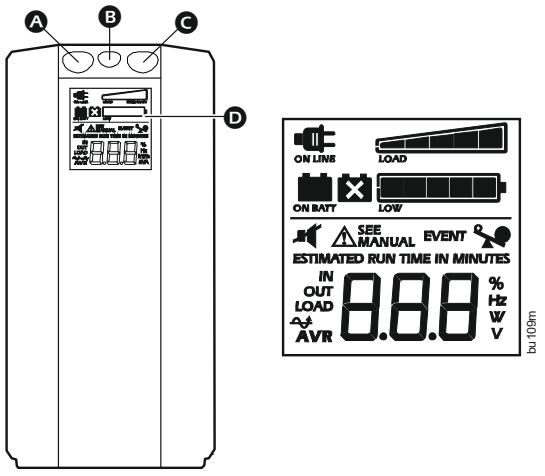
1. Ensure the Back-UPS is connected to AC power, but is OFF.
2. Press and hold the POWER button for six seconds. The Load Capacity bar will flash on and off, indicating that the Back-UPS is in programming mode.
3. Press POWER again to rotate through the menu options. Stop at selected sensitivity. The Back-UPS will beep to confirm the selection.

Generator Sensitivity	Default	Sensitive Loads
		
Low sensitivity	Medium sensitivity (Default)	High sensitivity
78-142 Vac *Input voltage is extremely low or high. (Not recommended for computer loads.)*	88-139 Vac *The Back-UPS frequently switches to battery power.*	88-136 Vac *The connected equipment is sensitive to voltage fluctuations.*

Front Panel Buttons and Display Interface

Ⓐ	MUTE **button**
Ⓑ	POWER ON/OFF **button**
Ⓒ	DISPLAY **button**
Ⓓ	**Display interface**

BR700G, BX850M/BX1000M/-LM60, BX1350M/ BX1500M/-LM60



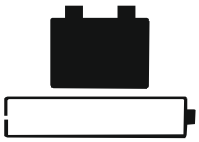
Display Interface Icons	
	**On Line:** The Back-UPS is supplying conditioned AC power to connected equipment
	**Load Capacity:** The load is indicated by the number of sections illuminated, one to five. Each bar represents 20% of the load.
	**Battery Charge:** The battery charge level is indicated by the number of sections illuminated. When all five blocks are illuminated, the Back-UPS is at full charge. When one block is filled, the Back-UPS is near the end of its battery capacity, the indicator will flash and the Back-UPS will beep continuously.
	**Overload:** The power demand from the load has exceeded the capacity of the Back-UPS.
EVENT	**Event:** The event counter shows the number of events that occurred that caused the Back-UPS to switch to on-battery operation.
	**Automatic Voltage Regulation:** The Back-UPS can compensate for low input voltage.  When illuminated, the Back-UPS is compensating for low input voltage
IN OUT	**In:** Input voltage. **Out:** Output voltage.
	**System Error Detected:** The system has an error. The error number will illuminate on the display interface. See ***"System Errors" on page 8***.
	**Mute:** If the line through the speaker icon is illuminated, the audible alarm has been turned off.
	**Replace Battery:** The battery is nearing the end of its useful life. Replace the battery as early as possible.
	**On Battery:** The Back-UPS is supplying battery backup power to the connected equipment, it will beep four times every 30 seconds.

Alarms and System Errors

Audible Indicators

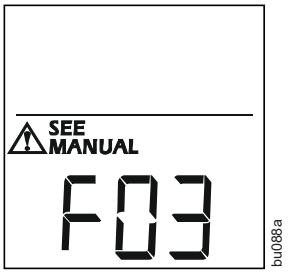
Four Beeps Every 30 Seconds	Back-UPS is running on battery. You should consider saving any work in progress.
Continuous Beeping	Low battery condition and battery run-time is very low. Promptly save any work in progress, exit all open applications, and shut down the operating system.
Continuous tone	Battery Backup outputs are overloaded.
Chirps every 2 Seconds with the Load Capacity Bar flashing	Battery is disconnected.
Continuous chirping with the Load Capacity Bar and Replace Battery icon alternately flashing	Battery did not pass the automatic diagnostic test and should be replaced as early as possible. Pressing the MUTE button pauses the chirping.

Status Icons

If these icons are illuminated...	This may be the problem.
	The Back-UPS is operating on AC power, but is overloaded. Disconnect one of the items connected to the Back-UPS. If the Overload icon stops flashing, the Back-UPS is no longer overloaded and will continue to operate normally.
	The Back-UPS is operating on battery power, but is overloaded. Disconnect one of the items connected to the Back-UPS. If the Overload icon stops flashing, the Back-UPS is no longer overloaded and will continue to operate normally.
	The Back-UPS is operating on AC power, but the battery is not functioning properly. Contact Schneider Electric IT (SEIT) Customer Service to order a replacement battery. See *"Battery Replacement" on page 12*.
	The Back-UPS is operating on battery power and the battery power is getting low. Shut down all connected equipment to avoid losing an unsaved data. When possible, connect the Back-UPS to AC power to recharge the battery.

System Errors

The Back-UPS will display these error messages. Except for errors F01 and F02, contact SEIT Technical Support.

	**F01**	On-Battery Overload	Turn the Back-UPS off. Disconnect non-essential equipment from the Battery Backup outlets and the turn Back-UPS on.
	F02	On-Battery Output Short	Turn the Back-UPS off. Disconnect all equipment from the Battery Backup outlets and the turn Back-UPS on. Re-connect equipment one item at a time. If the output is tripped again, disconnect the device that caused the error.
	F03	On-Battery X cap Overload	Errors F03-F09 cannot be corrected by the user, contact SEIT Technical Support for assistance.
	F04	Clamp Short	
	F05	Charge Error	
	F06	Relay Welding	
	F07	Temperature	
	F09	Internal Error	

Function Button Quick Reference

Function	Button	Timing (seconds)	UPS Status	Description
			Power	
Power On		0.2	Off	Press POWER to start receiving input AC power. If AC input power is not available, the Back-UPS will run on battery power.
Power Off		2	On	The Back-UPS is not receiving input AC power, but is providing surge protection.
			Display	
Status Inquiry		0.2	On	Verify the status or condition of the Back-UPS. The LCD will illuminate for 60 seconds. Press the button the toggle into various information.
Full-Time/ Power-Saving mode		2	On	The LCD will illuminate and the Back-UPS will beep to confirm the Full-Time mode. The LCD will darken and the Back-UPS will beep to confirm the Power-Saving mode. While in Power-Saving Mode, the LCD will illuminate if a button is pressed, then darkens after 60 seconds of no activity.
			Mute	
General Status Enable/ Disable		2	On	Enable or disable the audible alarms. The Mute icon will illuminate and the Back-UPS will beep one time. The Mute function will not activate unless the Back-UPS is operating on battery power.
Sensitivity		6	Off	The Load Capacity icon will blink, indicating that the Back-UPS is in programming mode. Use the POWER button to scroll through Low, Medium, and High, stop at selected sensitivity. The Back-UPS will beep to confirm selection. See *“Unit sensitivity” on page 6* for details.
Self-Test (manual)		6	On	The Back-UPS will perform a test of the internal battery. Note: This will happen automatically when the Back-UPS is turned ON or when the Back-UPS previously detected a bad battery.
Event Reset		0.2	On	When the Event screen is visible, press and hold DISPLAY, then press POWER button, to clear the detected error event counter.
Error Reset		2	Error	After an error has been identified, press POWER button to remove the visual indication and return to standby status.

Install Power Chute™ Serial Shutdown Software

Use Power Chute™ Serial Shutdown (PCSS) Software to configure the UPS settings. During a power outage, PCSS will save any open files on your computer and shut it down. When power is restored, it will restart the computer.

NOTE: PCSS is only compatible with a Windows operating system. If you are using Mac OSX, use the native shutdown feature to help protect your system. See the documentation provided with your computer.

The UPS information displayed in the Power Chute User Interface reflects the status at the time the page was accessed. To view the most current UPS data, you must manually refresh the page.

Installation

1. Use the USB Data Port Cable supplied with the Back UPS to connect the data port on the Back UPS to the USB port on your computer.
2. Download Power Chute Serial Shutdown Software from https://www.se.com/pcss.
3. Select the appropriate operating system and follow directions to download and install the software.

Specifications

MODEL	BR700G	BX850M BX850M-LM60	BX1000M BX1000M-LM60	BX1350M BX1350M-LM60	BX1500M BX1500M-LM60
VA	700 VA	850 VA	1000 VA	1350 VA	1500 VA
Maximum Load	420 W	510 W	600 W	810 W	900 W
Nominal Input Voltage	120 Vac				
Online Input Voltage Range	Default Setting: 88 - 141 V Low Sensitivity Setting: 78 V - 144 V High Sensitivity Setting: 88 V - 137 V	88 - 139 Vac			
Automatic Voltage Regulation	(94-107) +11.5% (126-133) -11.5%	(88-107) +11.2% (compensate for low input voltage)			
Frequency Range	50/60 Hz ± 1 Hz	60 Hz ± 1 Hz			
Battery Type	Lead acid, 12V with 1 battery			Lead acid, 24V with 2 batteries	
On-battery Wave shape	Step-approximated sine-wave				
Typical Recharge Time	12 Hours			16 Hours	
Transfer Time	8 ms typical, 12 ms (maximum)	8 ms (typical), 10 ms (maximum)			
On Battery Runtime	Go to: www.apc.com				

Interface	USB				
Operating Temperature	0 to 40 °C (32 to 104 °F)				
Storage Temperature	-15º to 45º C (5º to 113ºF)	-5 to 45 °C (23 to 113 °F)			
Relative Humidity	0 - 95%				
Storage altitude	0-3000 meters				
Operating altitude					
Unit Weight	7.15 Kg	6.8 Kg	7.2 Kg	10.2 Kg	11 Kg
Unit Dimensions	19 x 9 x 31 cm			25 x 10 x 38 cm	

Troubleshooting

Problem	Possible Cause	Corrective Action
Back-UPS will not switch on.	The Back-UPS is not connected to AC power.	Ensure that the Back-UPS is securely connected to an AC outlet.
	The circuit breaker has been tripped.	Disconnect non-essential equipment from the Back-UPS. Reset the circuit breaker. Re-connect equipment one item at a time. If the circuit breaker is tripped again, disconnect the device that caused the trip.
	The internal battery is not connected.	Connect the battery.
	The AC input voltage is out of range.	Adjust the transfer voltage and sensitivity range.
The Back-UPS does not provide power during a AC power outage.	Ensure that essential equipment is **not** plugged into a *Surge Only* outlet.	Disconnect equipment from the *Surge Only* outlet and re-connect to a Battery Backup outlet.
The Back-UPS is operating on battery power, while connected to AC power.	The plug has partially pulled out of the wall outlet, the wall outlet is no longer receiving AC power, or the circuit breaker has been tripped.	Ensure that the plug is fully inserted into the wall outlet. Ensure 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, or the waveform is distorted.	Adjust the transfer voltage and sensitivity range.
The Back-UPS does not provide the expected amount of backup time.	Battery Backup outlets may be fully or improperly loaded.	Disconnect non-essential equipment from the Battery Backup outlets and connect the equipment to *surge* outlets.
	The battery was recently discharged due to a power outage and has not fully recharged.	Charge the battery cartridge for 16 hours.
	The battery has reached the end of its useful life.	Replace the battery.
The REPLACE BATTERY **indicator is illuminated.**	The battery has reached the end of its useful life.	Replace the battery as early as possible.
The OVERLOAD **indicator is illuminated.**	The equipment connected to the Back-UPS is drawing more power than the Back-UPS can provide.	Disconnect non-essential equipment from the Battery Backup outlets and connect the equipment to *surge* outlets.
The SYSTEM ERROR **indicator is illuminated, all the front panel indicators are flashing.**	There is an internal error.	Determine which internal error message is displayed by matching the number displayed on the LCD with the corresponding Error Message (see *“System Errors” on page 8*) and contact SEIT Technical Support.

Battery Replacement

The battery typically lasts for 3 to 5 years, a shorter period if subjected to frequent outages or elevated temperatures. Delaying the replacement of parts may corrode the batteries in the cartridge. Recycle spent battery cartridges.

Battery replacement parts for Back-UPS is shown in the matrix below.

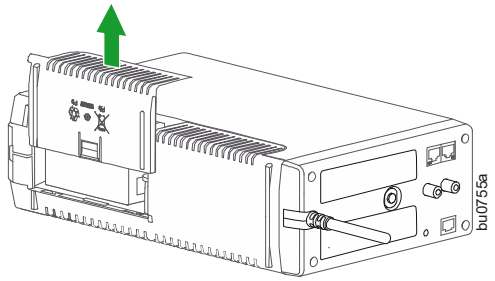
RBC Matrix

BR700G	BX850M/M-LM60	BX1000M/M-LM60	BX1350M/M-LM60	BX1500M/M-LM60
APCRBC17	RBC17	APCRBC158	APCRBC123	APCRBC124

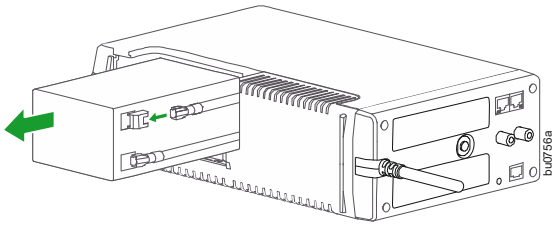
Connect the battery

BR700G, BX850M/BX1000M/-LM60

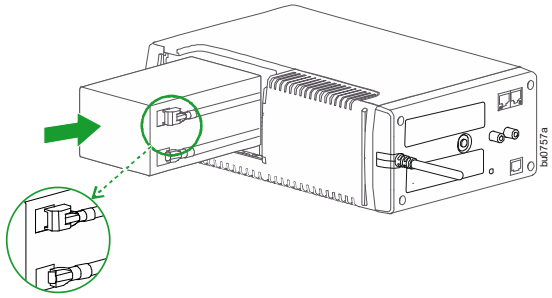
❶ Remove the battery door.



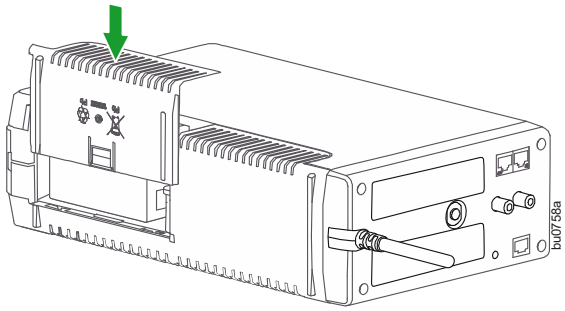
❷ Remove the battery and disconnect the wire.



❸ Push the battery into the unit.

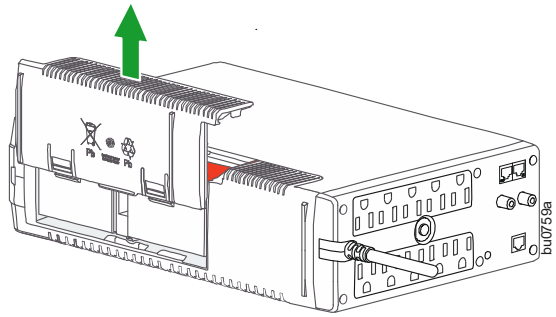


❹ Replace the battery door.

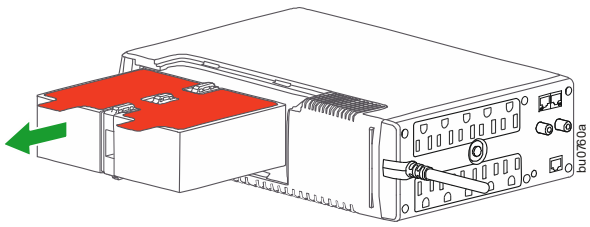


BX1350M/BX1500M/-LM60

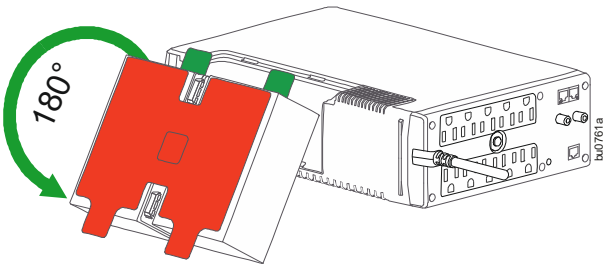
❶ Remove the battery door.



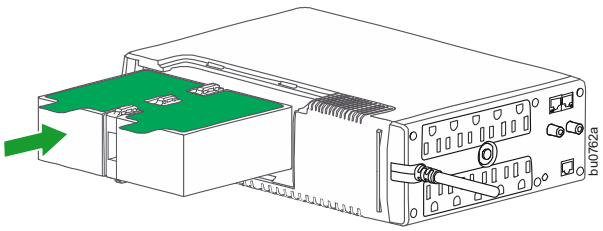
❷ Remove the battery.



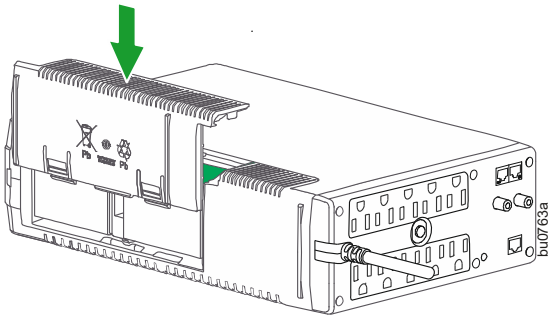
❸ Flip or turn the battery 180 degrees upward/ downward to let green side of the label face up.



❹ Push the battery into the unit.



❺ Replace the battery door.



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 Schneider Electric website, www.se.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.
   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 Schneider Electric website 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.

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.

Schneider Electric IT Customer Support Worldwide

For country specific customer support, go to the Schneider Electric website, **www.se.com/support**

Select models are ENERGY STAR® qualified.
For more information on your specific model go to www.se.com.