

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

35 rue Joseph Monier
92500 Rueil Malmaison - France
Phone: +33 (0) 1 41 29 70 00
www.se.com

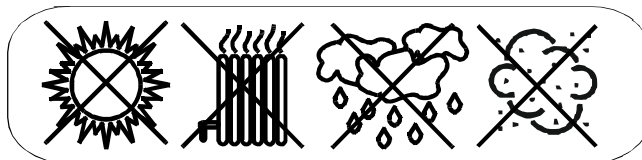
As standards, specifications, and design change from time to time, please ask for confirmation of the information given in this publication.
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Product Handling Guidelines

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

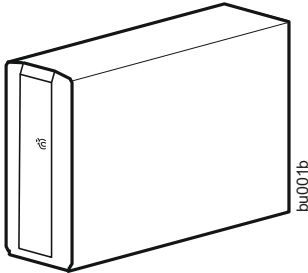
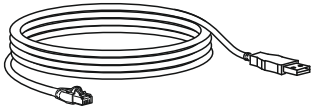
FCC Class B Radio Frequency Warning

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

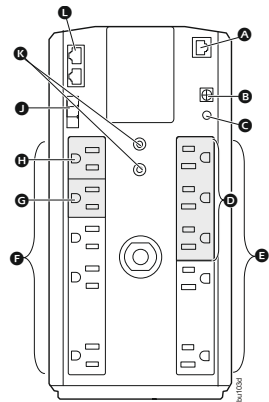
To conserve electricity, when the device connected to Master Outlet goes into Sleep or Standby mode, or turns Off, the Controlled device(s) will shut down as well, saving electricity.

Connect a master device, such as a desktop computer or audio/visual receiver to the Master outlet. Connect peripheral devices such as a printer, speakers, or a scanner to the Controlled outlets.

Product Overview

Rear Panel Features

BR1500G



A	USB and Serial Data port
B	Ground screw
C	Building Wiring Fault indicator
D	Surge Protected outlets, controlled by the Master outlet
E	Surge Protected outlets
F	Battery Backup outlets with Surge Protection
G	Battery Backup outlets with Surge Protection, controlled by the Master outlet
H	Master outlet
J	External Battery Pack connector
K	Coaxial ports with surge protection
L	In/Out Ethernet surge-protected ports

Operation

Power Saving Function



To conserve electricity, configure the Back-UPS to recognize a Master device, such as a desktop computer or an A/V receiver, and Controlled peripheral devices, such as a printer, speakers, or a scanner. When the Master device goes into Sleep or Standby mode, or is switched OFF, the Controlled device(s) will be switched off as well, saving electricity.

NOTE: Devices that provide network services such as routers, modems or wireless printers should not be plugged into the Controlled outlets. This product ships with the Power Saving feature Disabled. To enable this feature follow the instructions below.

Enable the Power Saving function. Press and hold Mute and Display simultaneously for two seconds. The Back-UPS will beep to indicate that the feature is enabled. The leaf icon on the display will illuminate.

Disable the Power Saving function. Press and hold Mute and Display simultaneously for two seconds. The Back-UPS will beep to indicate that the feature is disabled. The leaf icon on the display will darken.

Setting the threshold. The amount of power used by a device in Sleep or Standby mode varies between devices. It may be necessary to adjust the threshold at which the Master outlet signals the Controlled outlets to shut down.

1. Ensure a master device is connected to the Master outlet. Put that device into Sleep or Standby mode, or turn it OFF.
2. Press Display and Mute simultaneously and hold for six seconds, until the leaf icon flashes three times and the Back-UPS beeps three times.
3. The Back-UPS will now recognize the threshold level of the Master device and save it as the new threshold setting.

Power Saving Display

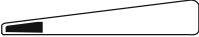
The display interface can be configured to be continuously illuminated, or to save energy, it can be configured to darken after a period of inactivity.

4. 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.
5. 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

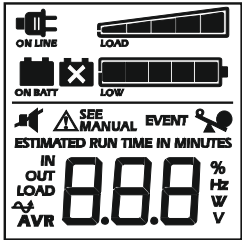
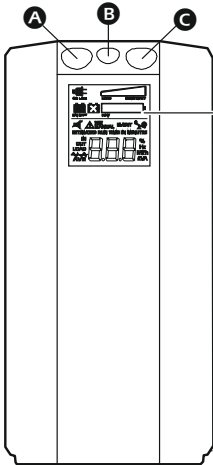
1. Ensure the Back-UPS is connected to AC power, but is OFF.
2. Press and hold the POWER button for six seconds. The LOAD CAPACITY bar will flash on and off, indicating that the Back-UPS is in programming mode.
3. Press POWER again to rotate through the menu options. Stop at selected sensitivity. The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

Generator Sensitivity	Default	Sensitive Loads
		
Low sensitivity	Medium sensitivity (Default)	High sensitivity
78-150 Vac <i>Input voltage is extremely low or high. (Not recommended for computer loads.)</i>	88-147 Vac <i>The Back-UPS frequently switches to battery power.</i>	88-144 Vac <i>The connected equipment is sensitive to voltage fluctuations.</i>

Front Panel Buttons and Display Interface

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

BR1500G



Display Interface Icons	
	On Line: The Back-UPS is supplying conditioned AC power to connected equipment
	Power Saving: Master and Controlled outlets are enabled, saving power when the master device goes into sleep or standby mode
	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  When illuminated, the Back-UPS is compensating for high input voltage.

IN OUT	In: Input voltage. Out: Output voltage.
 SEE MANUAL	Detected System Faults: The system has a fault detected. The fault number will illuminate on the display interface. See “Detected System Faults” on page 9.
	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.

Warnings and Detected System Faults

Audible Alarms

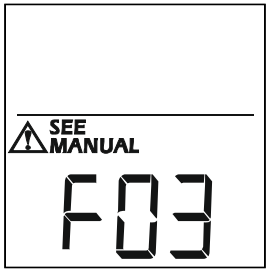
Four Beeps Every 30 Seconds	Back-UPS is running on battery. You should consider saving any work in progress.
Continuous Beeping	Low battery condition and battery run-time is very low. Promptly save any work in progress, exit all open applications, and shut down the operating system.
Continuous tone	Battery Backup outputs are overloaded.
Chirps for 1 Minute every 5 hours	Battery is unable to pass the automatic diagnostic test and should be replaced.

Status Icons

If these icons are illuminated...	This may be the problem.
	The Back-UPS is operating on utility 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 utility power, but the battery is not functioning properly. Contact APC Customer Service to order a replacement battery. See “Connect the battery” on page 13.
	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 utility power to recharge the battery.

Detected System Faults

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 non-essential equipment from the Battery Backup outlets and the turn Back-UPS on.
	F03	On-Battery X cap Overload	Faults 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	
	F08	Fan Event	
	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 utility 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.
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				
Event Specific		0.2	On	Disable any audible alarms caused by an event.
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.

Function	Button	Timing (seconds)	UPS Status	Description
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 Configuration for details.
Master/ Controlled outlet Enable/ Disable	 	2	On	The leaf icon will darken indicating that the Master Outlet feature is disabled or illuminate to indicate the Master Outlet feature is enabled. The Back-UPS will beep once.
Master/ Enable Threshold Calibration	 	6	On	While calibrating the threshold setting, the device connected to the Master Outlet should be turned off or placed in Standby or Sleep mode. Upon completion, Power Saving icon will flash 3 and beep 3 times.
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.
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	BR1500G
VA	1500 VA
Maximum Load	865 W
Nominal Input Voltage	120 V
Online Input Voltage Range	88 - 147 V
Automatic Voltage Regulation	(126-141) -11.5%
Frequency Range	50/60 Hz $\pm$ 1 Hz
On-battery Wave shape	Step-approximated sine-wave
Typical Recharge Time	8 hours
Transfer Time	8 ms, maximum
Operating Temperature	32° to 104°F (0° to 40°C)
Storage Temperature	23° to 113°F (-5° to 45°C)
Unit Dimensions	11.9 × 4.4 × 15.0 in (30.1 × 11.2 × 38.2 cm)
Unit Weight	22.8 lbs (10.4 kg)
Interface	USB and Serial
On-Battery Runtime	Go to: http://www.se.com/product
Battery type	12V lead-acid battery
Nominal voltage of total battery	24 V
Nominal capacity of total battery	9 Ah
Storage altitude	0 - 5000 ft (0 - 1524 m)
Relative humidity	0 - 95 %
Storage relative humidity	

Troubleshooting

Problem	Possible Cause	Corrective Action
Back-UPS will not switch on.	The Back-UPS is not connected to utility 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 utility input voltage is out of range.	Adjust the transfer voltage and sensitivity range.
The Back-UPS does not provide power during a utility 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 utility power.	The plug has partially pulled out of the wall outlet, the wall outlet is no longer receiving utility 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 utility power by checking it with another device.
	The Back-UPS is performing an automatic self test.	No action is necessary.
	The utility 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 ONLY 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.
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 ONLY outlets.
The SYSTEM ERROR indicator is illuminated, all the front panel indicators are flashing.	There is an internal fault detected.	Determine which error message is displayed by matching the number displayed on the LCD with the corresponding Error Message (see Detected System Faults) and contact APC Technical Support.
Power is not supplied to some outlets.	Power to the Controlled outlets has intentionally been turned off.	Confirm that the correct peripherals are connected to Controlled outlets. If this feature is not desired, disable the Power Saving Master and Controlled outlets.

Problem	Possible Cause	Corrective Action
The Controlled outlets are not supplying power, even though the Master device is not in sleep mode.	The Master Outlet threshold may be incorrectly set.	Adjust the threshold when the Master outlet signals the Controlled outlets to shut down.

Battery Replacement

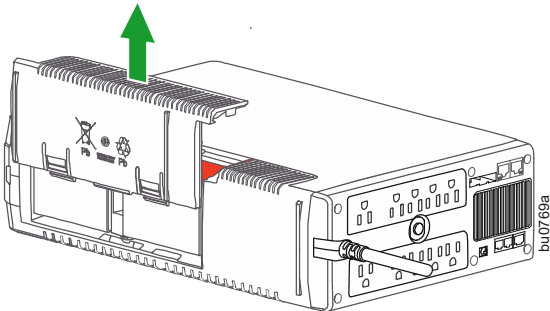
The battery typically lasts for 3 to 5 years, a shorter period if subjected to frequent outages or elevated temperatures. Delaying the replacement of parts may corrode the batteries in the cartridge. Recycle spent battery cartridges.

Battery replacement part for Back-UPS Pro BR1500G is **APCRBC124**.

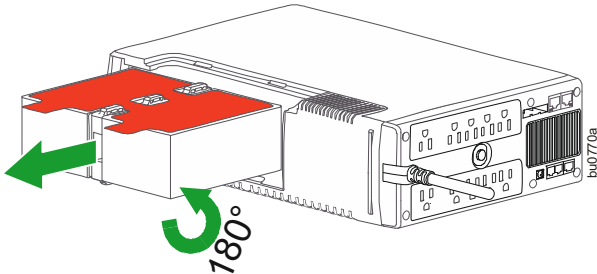
Connect the battery

BR1500G

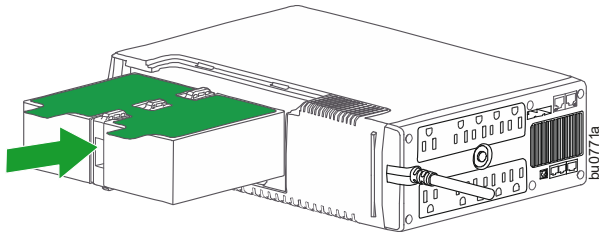
❶ Remove the battery door.



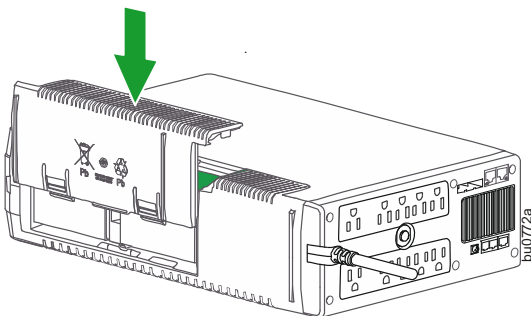
❷ Remove the battery and flip or turn the battery 180 degrees upward/downward to let green side of the label face up.



❸ Push the battery into the unit.



❹ 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.se.com>

The standard warranty is three (3) 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.