User Guide

EN JPT56872 – 05/2026

APC™ Back-UPS™ Pro BR650G2I, BR900G2I, BR900G2-GR, BR900G2-FR

IMPORTANT SAFETY INSTRUCTIONS

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

Read the user documentation carefully and look at the UPS to become familiar with it before trying to install or operate it.

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

Read the instructions in this manual carefully to become familiar with the UPS.

The following special messages may appear throughout this document or on the UPS 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” product safety label indicates that an electrical hazard exists which 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, **can result in** death or serious injury.

⚠ CAUTION

CAUTION indicates a hazardous situation which, if not avoided, **can 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 Ruel 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.

© 2026 Schneider Electric. All rights reserved.

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 local and national electrical codes.
- Do not work alone under hazardous conditions.
- All wiring must be performed by a qualified electrician.
- **Changes and modifications to this unit not expressly approved by Schneider Electric could void the warranty.**
- Schneider Electric shall not be held liable for any loss arising from the operation of this UPS.
- This UPS is intended for indoor use only.
- Do not operate this unit 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.
- Connect the UPS power cable directly to a wall outlet. Do not use surge protectors or extension cords.
- The UPS cord shall be connected to an earthed mains socket outlet for safety reasons.

Battery Safety

⚠ CAUTION

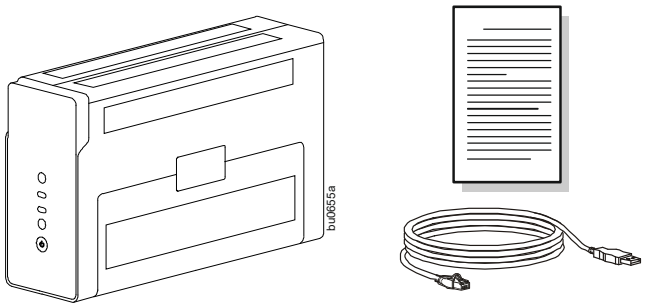
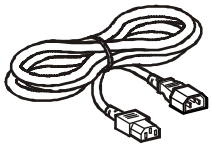
RISK OF HYDROGEN SULPHIDE GAS, EXCESSIVE SMOKE AND FIRE

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

Failure to follow these instructions could result in death, or serious injury and equipment damage.

- For the recycling battery information, go to apc.com/recycle
- The battery may get discharged naturally due to storage before shipment. Be sure to charge at least 8 hours before use.
- Servicing of batteries should be performed or supervised by personnel knowledgeable about batteries and required precautions.
- Batteries typically last for two to five years. Environmental factors impact battery life. Elevated ambient temperatures, poor quality utility power causing frequent short duration discharges will shorten battery life. Batteries should be replaced before end of life.
- CAUTION: Before replacing batteries, remove conductive jewelry such as chains, wrist watches, and rings. High energy through conductive materials could cause severe burns.
- CAUTION: A battery can present a risk of electrical shock and 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: 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.
- CAUTION: Failed batteries can reach temperatures that exceed the burn thresholds for touchable surfaces.

Inventory

All models	BR650G2I and BR900G2I
	

Product Description

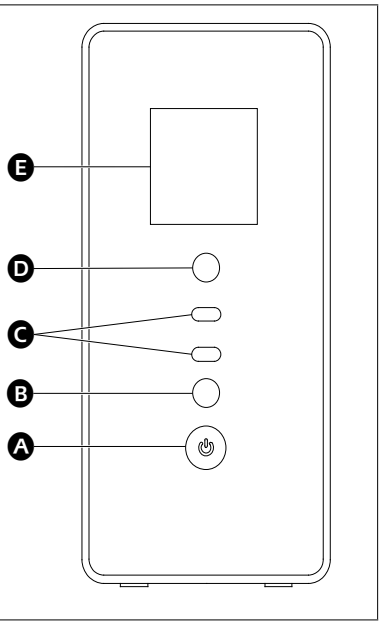
The APC™ Back-UPS™ is a high performance Uninterruptible Power Supply (UPS). The UPS helps provide protection for electronic equipment from utility power blackouts, brownouts, sags, surges, small utility power fluctuations and large disturbances. The UPS also provides battery backup power for connected equipment until utility power returns to acceptable levels or the batteries are fully discharged.

This user manual is available on the Schneider Electric web site, www.se.com.

Product Overview

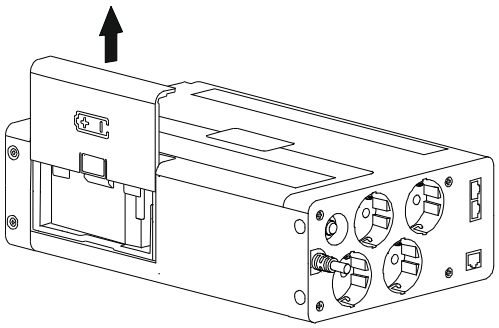
Front panel features

Ⓐ	UPS ON/OFF **button**
Ⓑ	MUTE **button**
Ⓒ	**USB charging ports:** The 2 USB ports provide a total of 15 W of DC power, and will provide power even when the UPS is on battery.
Ⓓ	MENU **button**
Ⓔ	**Display Interface**

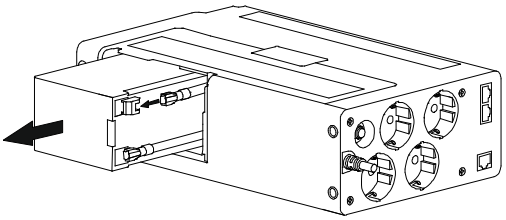


Connect the Battery

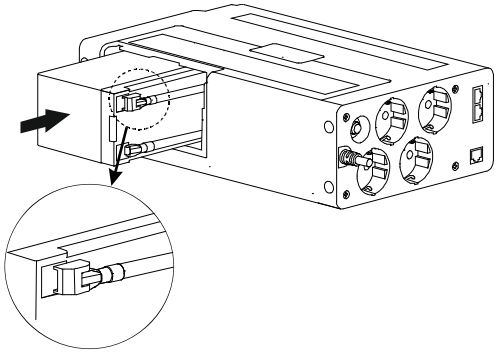
❶ Lay the UPS on its side and slide up the battery compartment door upwards to access the battery module.



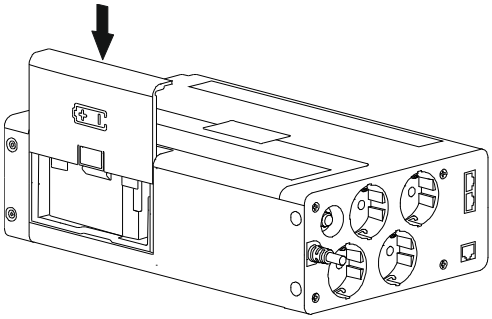
❷ Remove the battery from the UPS. Connect the wire.



❸ Push the battery back in to the UPS.



❹ Slide the battery compartment door downwards. Lift the UPS back to its original position.



Install Powerchute Software

Use the USB communication cable supplied with the Back-UPS to connect the data port on the Back-UPS to the USB port and Serial Data port on your computer. On the computer, go to //www.se.com/pcss. Select your country and then click the download link to download the latest version of PowerChute Serial Shutdown software (PCSS)" software.

Specification

For additional specifications refer to the Schneider Electric web site, www.se.com.

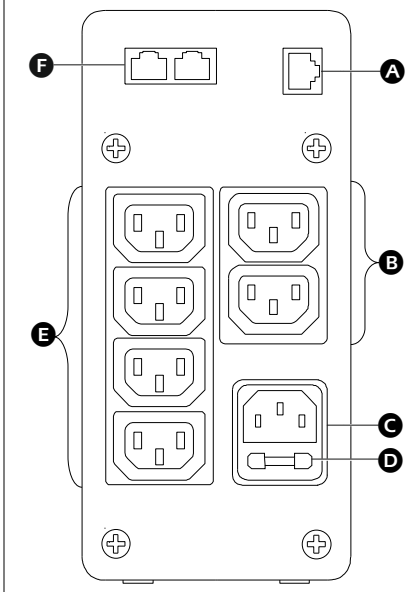
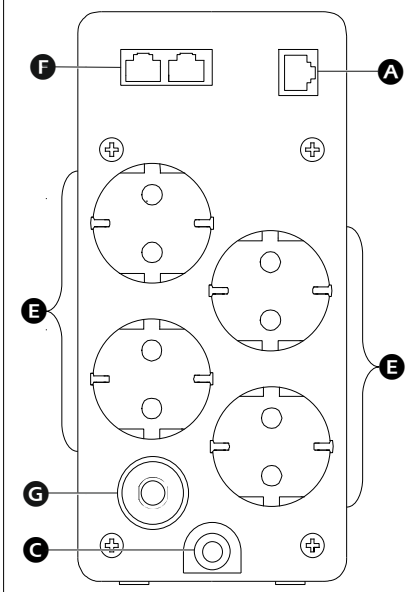
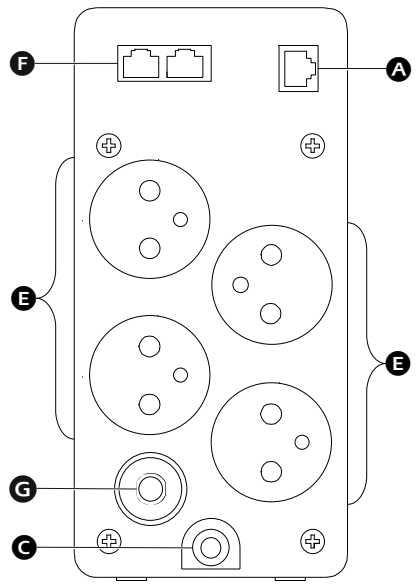
		BR650G2I	BR900G2I	BR900G2-GR BR900G2-FR
Input/Output				
Nominal Voltage		220-240 Vac		
Nominal Output Voltage - On Battery		230 Vac		
Online Input Voltage Range		176 - 294 Vac		
VA		650 VA	900 VA	900 VA
Maximum Load		400 W	540 W	540 W
Automatic Voltage Regulation		Boost by +12% when input voltage drops below limit		
		Trim by -11% when input voltage exceeds limit		
Frequency Range		50/60 Hz ± 1Hz autosensing		
On-battery Waveshape		Square-wave		
USB charging port		Type C*2 (5 VDC, 15 W)	Type C*2 (5 VDC, 15 W)	Type C*2 (5 VDC, 15 W)
Output Short-Circuit Current		Approx. 415A peak, Approx. 44.7A rms	Approx. 400A peak, Approx. 46.2A rms	
Physical				
Typical Recharge Time		8 hours		
Unit Dimensions		7.4×3.6×12.2 in (190×91×310 mm)		
Unit Weight		14.33 lb (6.5 kg)	16.31 lb (7.4 kg)	16.54 lb (7.5 kg)
Interface		USB and Simple Signal		
Environmental				
Temperature	Operating	32 to 104 °F (0 ~ 40 °C)		
	Storage	23 to 113 °F (-15 ~ 40 °C)		
Elevation	Operating	0 ~ 3000 meters		
	Storage	0 ~ 3000 meters		
Humidity	Operating	0 to 95% non-condensing		
	Storage	0 to 95% non-condensing		
Battery				
Typical Recharge Time		8 hours		
Transfer Time		8 ms (typical), 10 ms (maximum)		
Battery Type		Lead acid, 12 VDC x 1 battery		
On-Battery Runtime		Go to: http://www.se.com		
Electrical				
Pollution degree		2		
Overvoltage category		II		
Applicable power grid power distribution system		TN Power Systems		
Applicable standard		IEC 62040-1		
International Protection Code		IP20		

Operation

Connect Equipment to the UPS

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

BR650G2I and BR900G2I model	BR900G2-GR model	BR900G2-FR model
		

A	**Serial Data port**	To use PowerChute Serial Shutdown, connect the supplied USB cable or an optional serial cable (not supplied) to the computer.
B	**Surge Protected outlets**	These outlets provide full-time protection from surges, even if the Back-UPS is off. Connect equipment such as printers and scanners that do not require battery backup protection.
C	**AC Power Input**	Use the power cable (supplied) to connect the UPS to AC power.
D	**AC Power Inlet Fuse (BR650G2I and BR900G2I only)**	Use to protect the UPS from power overload and short circuit.
E	**Battery Backup outlets with Surge Protection**	During a power outage or disturbances in the input power supply, the equipment connected to the Battery Backup outlets receive power for a limited time from the Back-UPS. Connect essential equipment such as desktop computer, computer monitor, modem or other data sensitive devices to these outlets.
F	In/Out **Ethernet surge-protected ports**	Use an Ethernet cable to connect a cable modem to the IN port, and connect a computer to the OUT port.
G	**Circuit Breaker**	Use to reset the system after an overload condition has occurred causing the circuit breaker to trip.

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 MENU button 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 MENU button 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

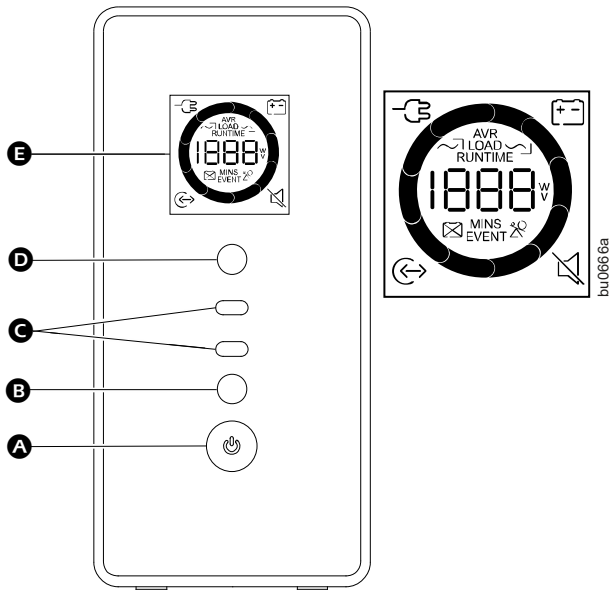
Adjust the sensitivity of the Back-UPS to control when it will switch to battery power; the higher the sensitivity, the more often the Back-UPS will switch to battery power.

1. Be sure that the Back-UPS is connected to AC power, but is OFF.
2. Press and hold the UPS ON/OFF button for six seconds. The three digit number in the middle of the display will flash on and off, indicating that the Back-UPS is in programming mode.
3. Press UPS ON/OFF button again to navigate through the menu options and select the required sensitivity. The Back-UPS will beep to confirm the selection.

LED Flashes	Line Sensitivity	Sensitivity Setting	Input Voltage Range	Status Description
Green	Generator Sensitivity	Low: 0	156-300 Vac	Input voltage is extremely low or high. (Not recommended for computer loads.)
Red	Default Value	Medium: 1 (Default)	176-294 Vac	The Back-UPS frequently switches to battery power.
Amber	Sensitive Loads	High: 2	176-288 Vac	The connected equipment is sensitive to voltage fluctuations.

Front Panel buttons and Display Interface

Ⓐ	UPS ON/OFF **button**
Ⓑ	MUTE **button**
Ⓒ	USB charging ports: The 2 USB ports provide a total of 15 W of DC power, and will provide power even when the UPS is on battery.
Ⓓ	MENU **button**
Ⓔ	Display Interface

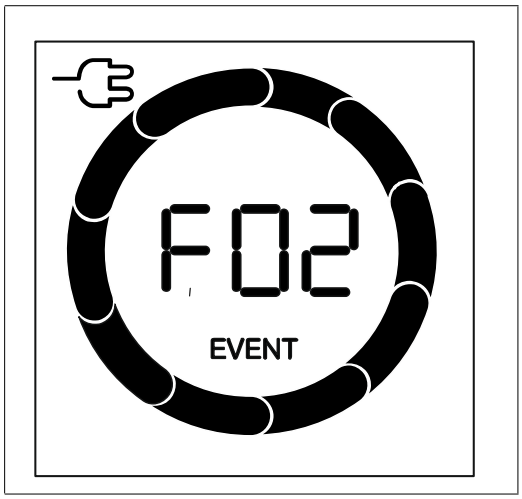


	On Line: The Back-UPS is supplying conditioned AC power to connected equipment
	Battery : The UPS is in battery mode. The battery icon flashes once a second when it is in Runtime, Load, Input, or Output page conditions. When battery is present it does not flashes. This icon only appear and flash once a second, when the active menu page is in Runtime, Load, Input, or Output page and when the battery is disconnected.
	Battery Capacity: The battery charge level is indicated by the number of sections illuminated. Each piece represents 10% of SOC.
	Replace Battery: The battery is nearing the end of its useful life. When the display shows a flashing Replace Battery icon and an empty Battery Capacity icon, replace the battery as early as possible.
	Input Voltage: UPS is receiving power from the utility.
	Output Voltage: UPS is powering the utility.
	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.
	Mute: If the line through the speaker icon is illuminated, the audible alarm has been turned OFF.
	Speaker: If the speaker icon is illuminated, the audible alarm has been turned ON.

AVR	**Automatic Voltage Regulation:** When illuminated, the Back-UPS is compensating for low input voltage When illuminated, the Back-UPS is compensating for high input voltage.
MINS	**Estimated Run Time:** This indicates the battery runtime minutes that remain if the Back-UPS switches to battery power.
LOAD	**Load:** The total load in watts (W) used by the devices connected to the Battery Backup outlets.

System errors Indicator

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



F01	On-Battery Overload	Turn off the Back-UPS. Disconnect non-essential equipment from the Battery Backup outlets and the turn on the Back-UPS.
F02	On-Battery Output Short	Turn off the Back-UPS. Disconnect all equipment from the Battery Backup outlets and turn on the Back-UPS. Re-connect equipment one item at a time. If the output trips again, disconnect the device that caused the tripping.
F05	Charge Error	Detected System Errors F05-F12 cannot be corrected by the user, contact SEIT Technical Support for assistance.
F06	Relay Welding	
F07	Temperature	
F12	Battery Output High	

Alarms and Detected 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	Battery is disconnected.
Chirps every 2 Seconds	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 flashing...	This may be the problem.
	The Back-UPS 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 15*.

To turn off the output power, press the UPS ON/OFF button on the UPS.

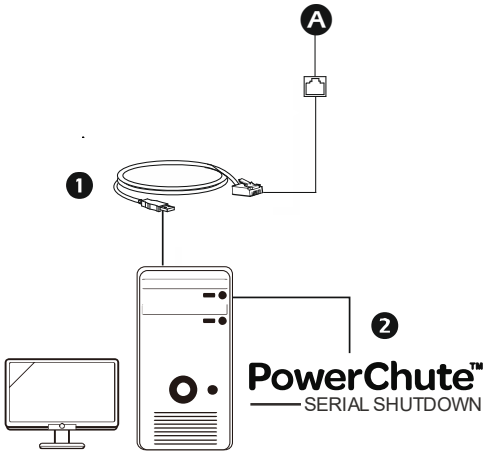
Function Button Quick Reference

Function	Button	Timing (seconds)	UPS Status	Description
Power				
Power On		0.2	On	Press UPS ON/OFF button to start receiving UPS input AC power. If AC input power is not available, the Back-UPS will run on battery power.
Power Off		2	Off	The Back-UPS does not receiving input AC power.
Display				
Menu		0.2	On	Short press the MENU button to toggle through information pages. Press and hold for 1 second on the Event Page to reset the event log. The LCD remains on the current page for 120 seconds. If no MENU action occurs, it will automatically cycle through other pages.
Mute				
Enable/ Disable mode		2	On	Press MUTE button to enable or disable the audible alarms. The Mute icon will illuminate and the Back-UPS will beep once.
No load shut down/ low load shut down		4	Off	Press and hold the Mute button for 4 seconds to enable or disable this function. • Default Setting: Disabled • Green power button: Function enabled • Red power button: Function disabled
Others				
Self-Test		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.

Connect and Install Management Software

Install PowerChute™ Serial Shutdown software on all computer servers connected to your Back-UPS, for graceful operating system shutdown, control and monitoring the Back-UPS. Visit https://www.se.com/pcss for more information and downloading the software.The following diagram is a representation of a typical server installation.

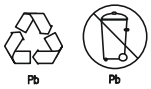
Ⓐ	**Serial Data Port** **NOTE:** For location of the port, refer to “Connect Equipment to the UPS” on page 7.
❶	**Connect the USB cable to the rear of computer and Serial Data Port to rear of the UPS to the protected device such as a server.**
❷	**For a server or other device with an operating system, download and install the latest version of PowerChute Serial Shutdown from https://www.se.com/pcss. PowerChute Serial Shutdown supports graceful shutdown in the event of an extended power outage.** **NOTE:** PowerChute is a 64-bit only application and cannot be installed on a 32-bit operating system.



Troubleshooting

Problem and Possible Cause	Solution
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 tripped. (applicable to BR900G2-GR and BR900G2-FR models)	Disconnect non-essential equipment from the Back-UPS. Reset the circuit breaker. Re-connect equipment one device at a time. If the circuit breaker trips again, disconnect the device that caused the circuit breaker to 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.	
Be sure 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 input power plug is not completely and securely connected to the wall outlet, the wall outlet is no longer receiving AC power, or the circuit breaker has tripped.	Be sure that the plug is completely and securely plugged into the wall outlet. Be sure 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 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 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 ONLY outlets.
The SYSTEM ERROR **indicator is illuminated, all the front panel indicators are flashing.**	
The UPS has detected an internal error.	Determine which detected error code displayed by matching the number displayed on the LCD and match it with the corresponding detected Error code (See *"System errors Indicator" on page 10*.) and contact SEIT Technical Support.

Battery Replacement



Always recycle used batteries.
For information on recycling a used battery, refer to the Battery Disposal Information sheet included with the replacement battery.

Replace used batteries with Schneider Electric approved batteries.To order a replacement battery go to the Schneider Electric Web site, **www.se.com**.

Battery life is highly dependent on temperature and use. To identify when to replace batteries, Back-UPS have a predictive battery typically lasts for 3 to 5 years, a shorter period if subjected to frequent outages or elevated temperatures.

Proactively replace batteries to maintain the highest availability. To ensure protection and high performance, use only genuine APC Replacement Battery Cartridges (RBC™). The APC RBC contains instructions for battery replacement and disposal. To order a replacement battery go to the Schneider Electric Web site, **www.se.com**.

UPS Model	Replacement Battery	Battery Module
BR650G2I	APCRBC164	LeadAcid (VRLA)
BR900G2I,BR900G2-GR, BR900G2-FR	APCRBC164	

Warranty

The standard warranty is three (3) years from the date of purchase, valid in European Community. For all other regions, the standard warranty is two (2) years from the date of purchase. Schneider Electric IT (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 Worldwide Customer Support

For country specific customer support, go to Schneider Electric web site **www.se.com**.