Back-UPS™

BR1100CI / BR1100CI-AS

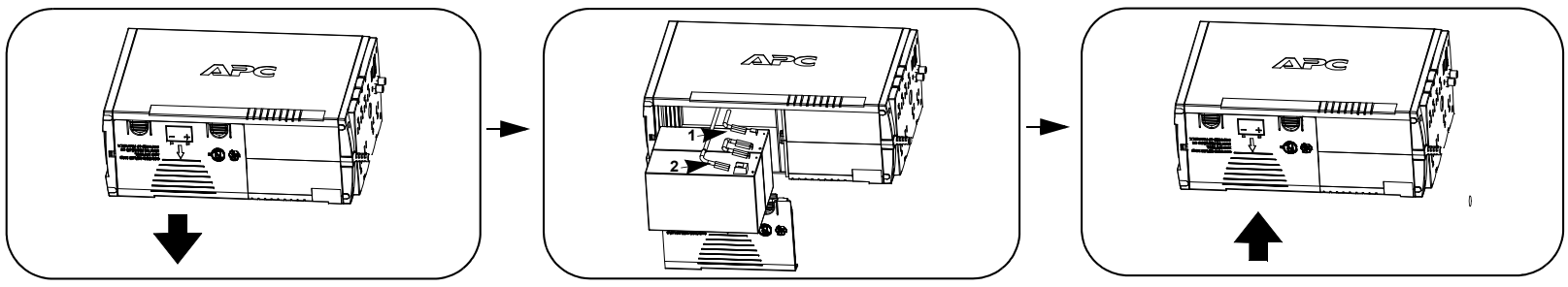
User Guide

by Schneider Electric

1 Connect Battery

For safety, the Back-UPS is shipped with one battery wire disconnected. The Back-UPS will not operate until the wire is connected to the touch safe battery terminal.
NOTE: Small sparks may occur during battery connection. This is normal.

1. TURN the Back-UPS over and slide the battery compartment cover off of the battery housing.
2. REMOVE the batteries from the battery compartment and connect the black wire to the negative (-) battery terminals. Ensure the batteries are installed as shown below.
3. INSTALL the batteries back into the battery housing, and slide the battery compartment cover back onto the battery housing.



2 Connect Equipment

Battery Backup **Surge Protection**

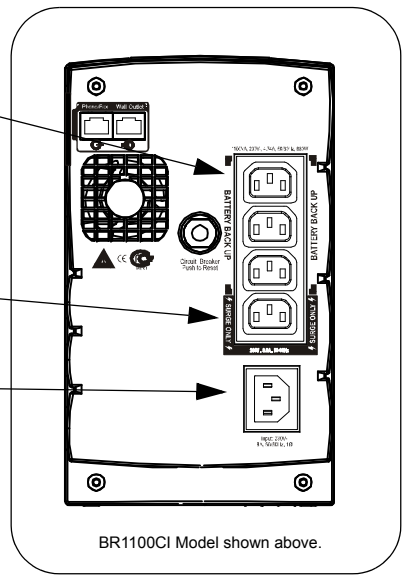
These outlets are powered whenever the Back-UPS is switched ON. During a power outage or other utility problems (brownouts, over-voltages), these outlets will be powered for a limited time by the Back-UPS. Plug your computer, monitor, and two other data-sensitive devices (external disk or tape drive) into these outlets.

Surge Protection Only

These outlets provide full-time protection from surges even if the Back-UPS is switched OFF. Plug your printer, fax, or other devices that do not need battery backup power into these outlets.

Connect AC Line Cord
Plug the Back-UPS power cord into a wall outlet, not a surge protector or power strip. The outlet should be near the equipment and easily accessible.

Place the Back-UPS to avoid:
- Direct sunlight
- Excessive heat
- Excessive humidity or contact with fluids



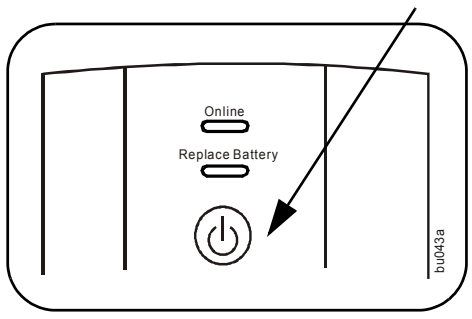
BR1100CI Model shown above.

3 Power On

Press the ON/OFF switch to power the unit.

A single short beep, and the green “Power On” indicator confirms that the Back-UPS is on and ready to provide protection.

The Back-UPS should charge for at least 24 hours to ensure sufficient runtime. The unit is being charged whenever it is connected to utility power, whether the unit is turned ON or OFF.



4 Transfer Voltage and Sensitivity Adjustment

In situations where the Back-UPS, or connected equipment, appears too sensitive to the input voltage, it may be necessary to adjust the transfer voltage. This is a very simple task that requires the use of an ON/OFF push button. To adjust the transfer voltage, perform the following steps:

1. Plug the Back-UPS into the utility power source. The Back-UPS will be in “Standby mode” (no indicators are lit).
2. Press the ON/OFF push button fully in for 10 seconds. The Online LED will begin glowing in a cyclical order: GREEN-AMBER-RED, indicating it is going into “Program mode”.
3. The Back-UPS will then indicate the current sensitivity, as shown in the *Transfer Voltage and Sensitivity Adjustment* table below.
4. To select the LOW sensitivity setting, press the ON/OFF push button until the LED begins flashing GREEN.
5. To select the MEDIUM sensitivity setting, press the ON/OFF push button until the LED begins flashing RED.
6. To select the HIGH sensitivity setting, press the ON/OFF push button until the LED begins flashing AMBER.
7. To exit Programming mode once sensitivity is set, wait approximately 5 seconds, and all of the LED indicators will be off (unlit).

Status Indicators

The Back-UPS indicates its operating status using a combination of visual and audible indicators. Use the following table to identify the status of the Back-UPS.

Power On LED	Buzzer	Condition
GREEN On	Off	**Power On** - Back-UPS is supplying conditioned utility power to the connected equipment.
GREEN On (Off during 4 beeps)	4 beeps repeated every 30 seconds	**On-Battery** - Back-UPS is supplying battery power to the load connected to the Battery outlets.
Flashing GREEN	Constant Beeping (every 1/2 second)	**Low Battery Warning** - The Back-UPS is supplying battery power to the load connected to the battery outlets, and the battery has 1.5 minutes of battery power remaining.
Alternating GREEN & RED	Constant tone	**Bad Battery Detected** - Battery needs to be charged, or is at end of life and must be replaced (see *Replace Battery*).
Flashing RED	Constant tone	**Battery Disconnected** - The battery is disconnected or it is a bad battery (see *Replace Battery)*.
Off	Short beep every 4 seconds	**Low Battery Shutdown** - During On Battery operation the battery power was almost completely exhausted, and the Back-UPS is waiting for utility power to return to normal.
Off	Constant Tone	**On Battery Overload** - Connected equipment requires more power than provided by Back-UPS battery. Unplug devices one at a time to remove overload. If not corrected contact Schneider Electric IT (SEIT) Technical Support.
GREEN On	Constant Tone	**On Line Overload -** The power drawn by the connected equipment exceeds the power capacity of the Battery Backup.
Flashing RED	Chirp every 2 seconds	**Charger Warning** -Back-UPS has experienced an internal problem, but continues to power the load. Contact SEIT Technical Support.
Off	Constant Tone	**Charger Fault** - Back-UPS has an internal problem, and is no longer powering the load. Contact SEIT Technical Support.
Alternating GREEN/AMBER/RED	Off	**Button Program Mode** - see Section 4, and the table below.
GREEN Flashing	Off	**Low Sensitivity Mode** - see Section 4, and the table below.
RED Flashing	Off	**Medium Sensitivity Mode** - see Section 4, and the table below.
AMBER Flashing	Off	**High Sensitivity Mode** - see Section 4, and the table below.

Transfer Voltage and Sensitivity Adjustment

Indicators Flashing	Sensitivity Setting	Input Voltage Range (For Utility Operation)	When to Use
Green Flashing	LOW	155 - 290	Input voltage is extremely low or high. Not recommended for computer loads.
Red Flashing	MEDIUM (factory default)	160 - 280	Back-UPS frequently goes on battery.
Amber Flashing	HIGH	165 - 270	The connected equipment is sensitive to voltage fluctuations.

EN 990-2995C
05/2014

Troubleshooting

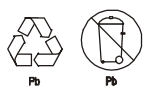
Use the table below to solve minor Back-UPS installation or operation problems. Consult Schneider Electric IT (SEIT) Online Technical Support or call SEIT Technical Support for assistance with problems that cannot be resolved using the table below:

Problem	Probable Cause	Solution
Back-UPS will not turn on.	Circuit Breaker has tripped.	Reduce the amount of equipment plugged into the “Battery Backup + Surge Protection” outlets. Reset the *circuit breaker* by pushing it back in.
	Battery is disconnected, or utility power is not available at the wall outlet.	Ensure the fuse or circuit breaker for the wall outlet is okay, and the wall switch controlling the wall outlet (if any) is in the ON position.
No power at the Surge Protection Only outlets.	Surge Protection Only outlets are overloaded.	Reduce the number of devices plugged into Surge Protection Only outlets.
	Utility power not available at the wall outlet.	Ensure the fuse or circuit breaker for the outlet is not tripped, and the wall switch that controls the outlet is ON.
Connected equipment loses power.	The Back-UPS is overloaded.	Ensure the equipment you want to stay powered during a power failure is plugged into the Battery + Surge Protection” outlets, and NOT the Surge Protection Only outlets.
		Ensure the equipment plugged into the outlets of the unit are not overloading the capacity of the unit. Try disconnecting some of the equipment one device at a time, and see if the problem continues.
	The Back-UPS has exhausted its available battery power.	The unit can only operate on battery power for a limited amount of time. The unit will eventually turn off when the available battery power has been used. Allow the unit to recharge for 24 hours before continuing to use the unit.
	The equipment connected to the Back-UPS does not accept the step-approximated sine waveform from the unit.	The output waveform is designed for computers and computer-related equipment. It is not designed for use with motor-type equipment.
	The Back-UPS may require service.	Contact SEIT Technical Support for further troubleshooting.
The Power On indicator is lit, and the unit is beeping four times every 30 seconds, or it is emittng a constant tone.	The unit is using battery.	The unit is operating normally and using battery power. Once On Battery, you should save your current work, power down your equipment, and turn the unit OFF. Once normal power is restored, you may turn the unit back ON, and power your equipment.
The Power On indicator flashes once per second, and the Back-UPS beeps once per second at the same time.	Battery capacity is low (there is about 2 minutes of use remaining).	The unit is about to shut down due to a *low battery* charge condition! When the unit beeps once every second, the battery has about 2 minutes of power remaining. Immediately power down your computer, and turn the unit OFF. When power returns to normal, the unit will recharge the battery.
Inadequate runtime.	The battery is not fully charged.	Allow the unit to charge by leaving it plugged in, and switched on for 24 hours.
	Battery is near the end of useful life.	As a battery ages, the amount of runtime available will decrease. Batteries also age prematurely if the unit is placed near excessive heat. If the battery will not charge, the Back-UPS is no longer operable, and the battery must be replaced.

Specifications

Item	Type	Specifications
Input	Voltage	230 VAC nominal
	Frequency	50 or 60 Hz ±3 Hz, factory default is 50Hz
	Brownout Transfer	159 VAC, typical
	Over-voltage Transfer	281 VAC, typical
Output	UPS Capacity (total)	1100 VA / 660 W
	Voltage On Battery	230 Vac ±8% (step-approximated sine wave)
	Frequency - On Battery	50 Hz ±1 Hz
	Transfer Time	50 Hz: 6ms typical, 10ms maximum 60 Hz: 5ms typical, 8ms maximum
Protection and Filter	AC Surge Protection	Full time, 440 joules
	AC Input	Resettable circuit breaker
Battery (lead acid)	Type (maintenance-free)	12V, 28 Watts
	Average Life	2 to 5 years depending on the number of discharge cycles and environmental temperature
	Typical Recharge Time	24 Hours
Physical	Net Weight	11.1 kg
	Dimensions (H x W x D)	22.0 cm (H) x 13.0 cm (W) x 35.0 cm (D)
	Operating Temperature	0 °C to 40 °C (32 °F to 104 °F)
	Storage Temperature	-15 °C to 45 °C (5 °F to 113 °F)
	Operating Relative Humidity	0 to 95% non-condensing
	Operating Elevation	0 to 3000 m (0 to 10,000 ft.)

Replace Battery



Deliver the used battery to a recycling facility.

Replace the used battery with an APC by Schneider Electric approved battery. Replacement batteries can be ordered through the APC by Schneider Electric Web site, **www.apc.com**. Battery replacement part for Back-UPS BR1100 is **APCRBC113**.

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 APC by Schneider Electric Web site, **www.apc.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 and are available through the LCD display on select models.
    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 the APC by Schneider Electric Web site 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.

Safety and General Information

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

Read the Safety Guide supplied with this unit before installing the UPS.

- This UPS is intended for indoor use only.
- Do not operate this UPS 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.
- The battery typically lasts for two to three years. Environmental factors impact battery life. Elevated ambient temperatures, poor quality AC power, and frequent short duration discharges will shorten battery life.
- Connect the UPS power cable directly to a wall outlet. Do not use surge protectors or extension cords.

Warranty

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.

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.