

Schneider Electric™ Back-UPS™ SX 3800/31K1 CI-FR User Guide

1 Safety and General Information

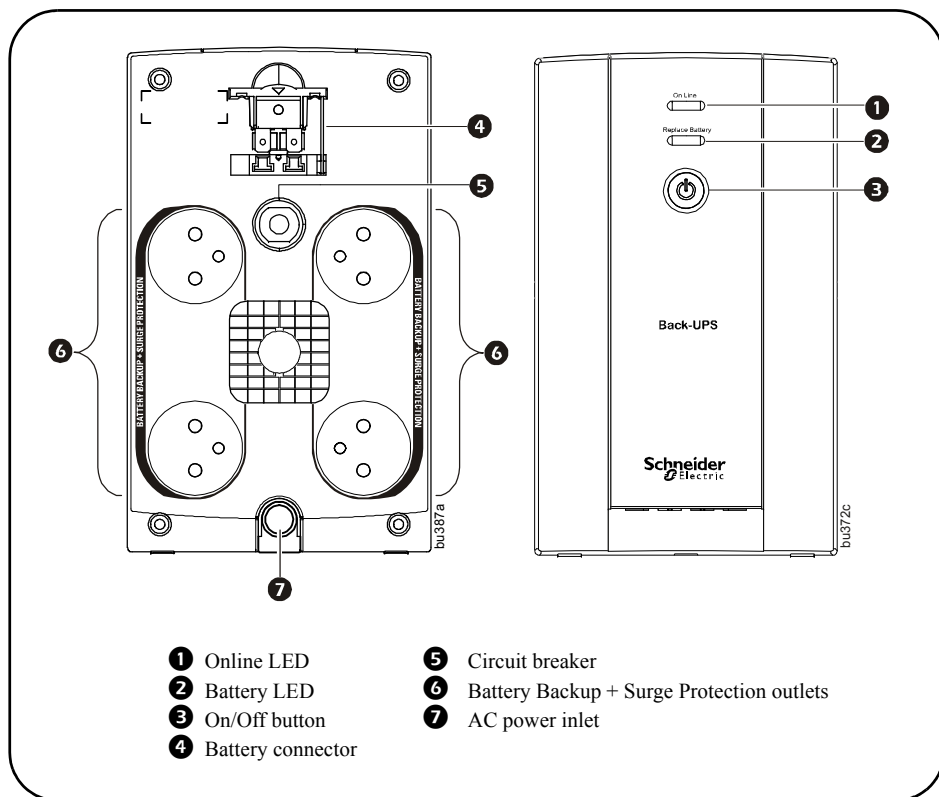


Inspect the package contents upon receipt. Notify the carrier and dealer if there is any damage.

Read the following reminders before installing the UPS.

- This UPS is intended for indoor use only.
- Connect the UPS power cable directly to a wall outlet. Do not use surge protectors or extension cords.
- When grounding cannot be verified, disconnect the equipment from the AC power outlet before installing or connecting to other equipment. Reconnect the power cord after all connections are made.
- Servicing of batteries should be performed by Schneider Electric IT (SEIT) Customer Support only.
 - When replacing battery the UPS must be OFF, and its AC inlet unplugged.
 - Do not dispose of batteries in a fire. The batteries may explode.
 - Do not open or mutilate batteries. They contain an electrolyte that is toxic and harmful to the skin and eyes.
 - To avoid harmful injury due to energy hazard, remove wrist watches and jewelry such as rings when replacing the batteries. Use tools with insulated handles.
 - Replace batteries with the same number and type of batteries as originally installed in the equipment.

3 Features



- 1 Online LED
- 2 Battery LED
- 3 On/Off button
- 4 Battery connector
- 5 Circuit breaker
- 6 Battery Backup + Surge Protection outlets
- 7 AC power inlet

5 Operational Features

Automatic Voltage Regulation

Automatic Voltage Regulation boosts/trims the AC voltage when it drops/exceeds safe levels. This allows the equipment plugged into the unit to operate during low/high voltage conditions, conserving the battery power in the event of a power cut.

The Back-UPS will switch to battery power if the input voltage level becomes too low/high for the Automatic Voltage Regulation to compensate, or if the AC power is distorted.

If the Back-UPS switches to battery power too frequently or too infrequently, adjust the transfer voltage and sensitivity settings:

1. Ensure the Back-UPS is off. Plug it into AC power.
2. Press and hold the ON/OFF button until the LED repeatedly flashes. The unit is now in Program Mode.
3. Release the button. The LED will indicate the current setting by flashing once, twice, or three times per second, and emitting audible beeps.
4. If the button is not pressed within five seconds, the Back-UPS will exit the Program Mode.

No-load Shutdown

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

When the UPS is reconnected to AC power, the UPS will automatically switch on.

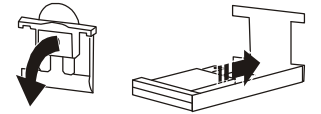
LED Flashes	Audible Indicator	Voltage Sensitivity Setting	Input Voltage Range	No-load Shutdown	Description
Green	None	Low	150-280	Disabled	Use this setting with equipment that is less sensitive to fluctuations in voltage or waveform distortions.
Green	4 beeps per second	Low	150-280	Enabled	Use this setting with equipment that is less sensitive to fluctuations in voltage or waveform distortions.
Red	None	Medium	155-280	Disabled	Use this setting for normal operation conditions.
Red	4 beeps per second	Medium (factory default)	155-280	Enabled	Use this setting for normal operation conditions.
Green and Red	None	High	160-280	Disabled	Use this setting when connected equipment is sensitive to voltage fluctuations or waveform distortions.
Green and Red	4 beeps per second	High	160-280	Enabled	Use this setting when connected equipment is sensitive to voltage fluctuations or waveform distortions.

Schneider Electric IT Customer Support Worldwide

For country specific customer support, go to the Schneider Electric web site, www.apc.com.

2 Connect the Battery

1. Connect the battery by pulling the battery connector handle down, and then pushing it into the unit.
2. Connect the Back-UPS SX3800CI-FR / SX31K1CI-FR power cable directly to a wall outlet. Do not use surge protectors or extension cords.
3. Press the ON/OFF button to turn on the unit. The green "Power On" indicator confirms that the Back-UPS is on and ready to provide protection.



The Back-UPS should charge for at least 10 hours to ensure sufficient runtime. The unit is being charged whenever it is connected to AC power, whether the unit is turned ON or OFF.

4 Status Indicators

Status	LED Indicator	Audible Alarm	Audible Alarm Terminates
Power On The Back-UPS is supplying AC power to connected equipment.	The On Line LED illuminates green.	None	N/A
On Battery The Back-UPS is supplying battery power to battery backup outlets.	The On Line LED illuminates green. The LED is not illuminated during the beeps.	Back-UPS beeps 4 times every 30 seconds.	The beeping stops when AC power is restored or the Back-UPS is turned off.
Low Battery warning The Back-UPS is supplying battery power to the battery backup outlets and the battery is near a total discharge state.	The On Line LED flashes green.	The Back-UPS emits rapid beeping. (once every second)	The beeping stops when AC power is restored or the Back-UPS is turned off.
Replace Battery The battery is disconnected. The battery needs to be charged or replaced.	• The Battery LED flashes red. • Battery and On Line LEDs flash alternately.	Constant tone	The Back-UPS is turned off.
Overload Shutdown While operating on battery power an overload condition has occurred in one or more of the battery backup outlets.	None	Constant tone	The Back-UPS is turned off.
Sleep Mode While operating on battery power the battery is completely discharged. The Back-UPS will awaken once AC power is restored.	None	The Back-UPS beeps once every four seconds.	• AC power is restored • AC power is not restored within 32 seconds • The Back-UPS is turned off
Overload Alarm The equipment connected to the Back-UPS is drawing more power than the voltage rating allows.	The Battery LED illuminates red.	Constant tone	Alarm stops when nonessential equipment is disconnected from the Battery Backup outlets.

6 Specifications

Specification	SX3800CI-FR Series	SX31K1CI-FR
Input	Voltage	230 Vac, nominal
	Frequency	50/60 Hz ± 3Hz auto-sensing
	Brownout Transfer	155 Vac, typical
	Over-voltage Transfer	280 Vac, typical
Output	UPS Capacity (total)	800 VA / 480 W
	Voltage On Battery	230 Vac rms (step-approximated sinewave)
	Frequency on Battery	50/60 Hz ± 1Hz
	Transfer Time	8 ms typical
Protection and Filtering	AC Surge Protection	Full time, 273 Joules
	AC Input	Resettable circuit breaker
Battery	Type (maintenance free, lead acid)	9 Ah, 12 V x 1
	Average Life	7.2 Ah, 24 V (12 Vx2) The battery typically lasts for two to five years. Environmental factors impact battery life. Elevated temperatures, high humidity, poor quality mains power, and frequent, short duration discharges will shorten battery life. The battery in the Back-UPS SX800CI-FR and SX31K1CI-FR is not user-replaceable. Contact SEIT Technical Support for a list of authorized service centers near you.
	Typical Recharge Time	8 Hours
	Net Weight	8 kg
Physical	Dimensions (H x W x D)	12 kg 21.5 cm x 13 cm x 33.6 cm

Troubleshooting and Service

1. If the problem persists, contact Schneider Electric IT (SEIT) Customer Support through the 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 Schneider Electric web site for country specific instructions.
2. Prepare to troubleshoot the problem over the phone. If this is not successful, and the unit is still under warranty, the Technical Support Representative will provide all necessary information to return the unit for replacement.

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.