Schneider Electric

Installation and Operation

Smart-UPS™SR1 Uninterruptible Power Supply

SR13KXIET

SR16KXIET

220/230/240 Vac
Tower

Smart-UPS^{TM} SR1

Uninterruptible Power Supply

3000/6000 VA

220/230/240 Vac

Tower

English

INTRODUCTION

The Schneider Electric Smart-UPS^{TM} SR1 is a high performance, uninterruptible power supply (UPS). The UPS provides protection for electronic equipment from utility power blackouts, brownouts, sags, and surges and small utility fluctuations and large disturbances. The UPS also provides battery backup power for connected equipment until utility power returns to safe levels or the batteries are fully discharged.

This user manual is available on the enclosed Documentation CD and on the Schneider Electric web site, www.schneider-electric.com.

IMPORTANT SAFETY INFORMATION

Read the instructions carefully to become familiar with the equipment before trying to install, operate, service or maintain it. The following special messages may appear throughout this manual 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 to a Caution product safety label indicates that a hazard exists that can result in injury and product damage if the instructions are not followed.**

⚠️ CAUTION
CAUTION indicates a potentially hazardous situation which, if not avoided, **can result in** equipment damage and minor or moderate injury.

CAUTION
CAUTION indicates a potentially hazardous situation which, if not avoided, **can result in** equipment damage or personal injury.

Read, understand, and follow ALL safety instructions in this manual. Failure to follow safety instructions and cautions could result in personal injury or equipment damage.

Changes and modifications to the UPS not expressly approved by Schneider Electric could void the warranty.

- Adhere to all national and local electrical codes.
- All wiring must be performed by a qualified electrician.
- This UPS is intended for indoor use only.
- Be sure the air vents on the UPS are not blocked. Allow adequate space for proper ventilation.
- The battery typically lasts for two to five years. Environmental factors impact battery life. Elevated ambient temperatures, poor quality utility power, and frequent short duration discharges will shorten battery life.
- The batteries are heavy. Remove the batteries prior to installing the UPS in a rack.
- The model and serial numbers are located on a small, rear panel label. For some models, an additional label is located on the chassis under the front bezel.
- Always recycle used batteries.
- **Recycle the package materials or save them for reuse.**

Deenergizing

The UPS contains internal batteries and may present a shock hazard even when disconnected from the branch circuit (mains). Before installing or servicing the equipment, check that the system enable switch is set to stand by (off), the internal batteries are removed, the external extended run batteries are disconnected and the branch circuit (main) is disconnected.

⚠ **CAUTION**

DAMAGE TO EQUIPMENT OR PERSONNEL

- Adhere to all national and local electrical codes.
- Wiring must be performed by a qualified electrician.
- Before installing or replacing the batteries, remove jewelry such as wristwatches and rings. High short circuit current through conductive materials could cause severe burns.

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

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Electrical Safety

- The protective earth conductor for the UPS carries the leakage current from the load devices. An insulated ground conductor is to be installed as part of the branch circuit that supplies the UPS. The conductor must have the same size and insulation material as the grounded and ungrounded branch circuit supply conductors. The conductor will be green and with or without a yellow stripe.
- The grounding conductor is to be grounded to earth at the service equipment, or if supplied by a separately derived system, at the supply transformer or motor generator set.

Battery Safety

- Do not dispose of batteries in a fire. The batteries may explode.
- Do not open or mutilate batteries. Released electrolyte is harmful to the skin and eyes, and may be toxic

Hardwire Safety

- Verify that all branch circuit (mains) and low voltage (control) circuits are deenergized, and locked out before installing cables or making connections, whether in the junction box or to the UPS.
- Strain relief is required for all hardwiring.
- All openings allowing access to UPS hardwiring terminals must be covered. Failure to do so may result in personal injury or equipment damage.
- Select wire size and connectors according to national and local codes.
- Ensure that the total load DOES NOT EXCEED the branch circuit breaker.
- Use flexible metal conduit to make maintenance and service easier.

CHARACTERISTICS

Temperature OPERATING STORAGE	32° to 104° F (0° to 40° C) 5° to 113° F (-15° to 45° C) charge the UPS battery every six months
MAXIMUM ELEVATION OPERATING STORAGE	10,000 ft (3,000 m) 50,000 ft (15,240 m)
HUMIDITY	0 to 95% relative humidity
WEIGHT UPS UPS WITH PACKAGING	120 lbs (55 kg) 140 lbs (64 kg)

INVENTORY

Inspect the UPS upon receipt. Notify the carrier and dealer if there is damage.

Check the package contents:

- UPS (with battery modules disconnected)
- Front bezel
- Literature kit containing:
  - Product documentation, Warranty registration card
  - Documentation CD
  - Serial communication cable

INSTALLATION

⚠️ **CAUTION**

DAMAGE TO EQUIPMENT OR PERSONNEL
- The equipment is heavy. Always practice safe lifting techniques adequate for the weight of the equipment.
- Remove the batteries before installing the UPS in a rack.

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

⚠️ **CAUTION**

DAMAGE TO EQUIPMENT OR PERSONNEL
- Adhere to all local and national electrical codes.
- Wiring must be performed by a qualified electrician.
- Install a high magnetic utility circuit breaker with appropriate rating for the product.

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

Hardwire Instructions

Install a high magnetic utility circuit breaker.
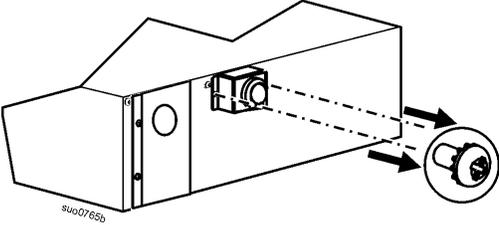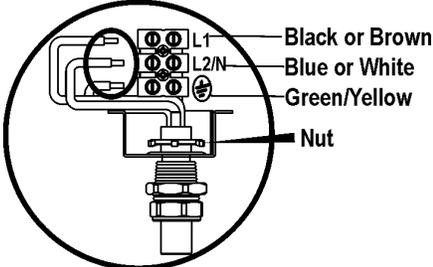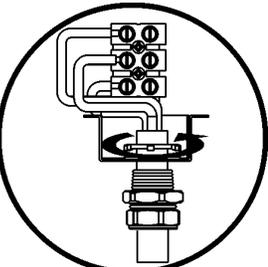
SR13KXIET model:
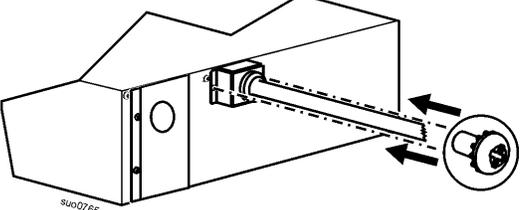Install a 16 Amp circuit breaker.
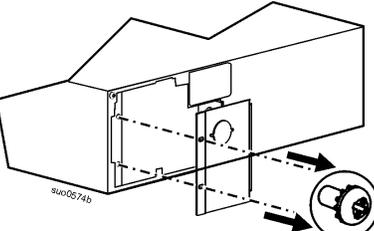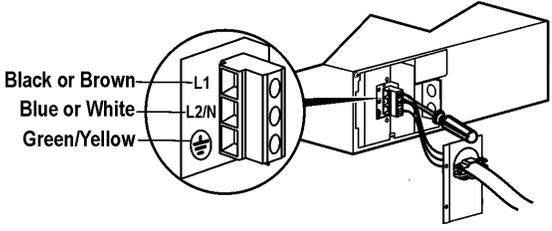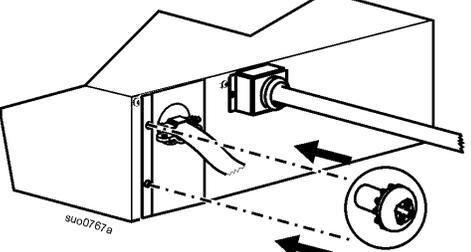Use 2mm^2 wire (#14 AWG gauge).

SR16KXIET model:
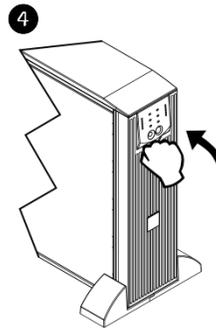Install a 32 Amp circuit breaker.
Use 5mm^2 wire (#10 AWG gauge).

INPUT HARDWIRE INSTALLATION

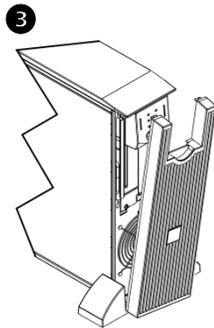|	
Remove the input hardwire panel from the UPS.	Slide the nut over the wires and the terminal block. Strip the wire insulation so that 19 mm of wire is exposed. Secure the wires in the terminal block.
Tighten the nut.	Secure the input hardwire panel to the UPS.

OUTPUT HARDWIRE INSTALLATION

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Connect the Battery Modules and Attach the Front Bezel

Basic Connectors

serial com	Optional power management software and interface kits can be used with the UPS. **Use only interface kits supplied or approved by Schneider Electric.** **Any other serial interface cable will be incompatible with the UPS connector.**
normal bypass	Manual bypass enables the user to manually put connected equipment into bypass mode.
EPO terminal	Emergency Power Off terminal allows the user to connect the UPS to the central EPO system.
ground screw	The UPS features a ground screw for connecting the ground lead on surge suppression devices such as telephone and network line protectors. **When connecting ground cable, disconnect the UPS from the utility power outlet.**
external battery pack connector	Optional external battery packs provide extended runtime during power outages. The UPS can support up to ten external battery packs. Refer to the Schneider Electric web site, www.schneider-electric.com for the information on the external battery pack, SR1192XBP.
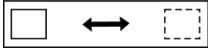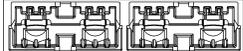
Connect Equipment and Power to the UPS

1. Connect equipment to the UPS.
2. To use the UPS as a master ON/OFF switch, be sure all connected equipment is switched ON. The equipment will not turn on until the UPS is turned on.
3. To turn on the UPS press the (Test) button on the front panel.
   - The UPS battery charges when it is connected to utility power.
   - The battery charges to 90% capacity during the first three hours of normal operation. *Do not* expect full battery run time capability during this initial charge period.

Options

Refer to the Schneider Electric web site, www.schneider-electric.com for available accessories.

For additional computer system security, install optional PowerChute™ *Business Edition* Smart-UPS monitoring software.

OPERATION
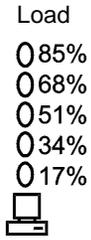
Load | *SMART-UPS SR1 FRONT DISPLAY* | Battery Charge

Load
- 85%
- 68%
- 51%
- 34%
- 17%

Battery Charge
- 96%
- 72%
- 48%
- 24%
- <24%

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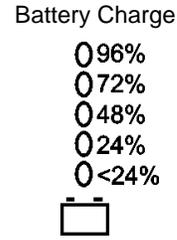| *Indicator*	*Description*
Online ∿	The Online LED illuminates when the UPS is drawing utility power and performing double conversion to supply power to connected equipment.
On Battery	The UPS is supplying battery power to the connected equipment.
Bypass	The Bypass LED illuminates indicating that the UPS is in bypass mode. Utility power is sent directly to connected equipment during bypass mode operation. Bypass mode operation is the result of an internal UPS fault, an overload condition or a user initiated command either through an accessory or the manual bypass switch. Battery operation is not available while the UPS is in bypass mode. Refer to *Troubleshooting* in this manual.
Fault X	The UPS detects an internal fault. Refer to *Troubleshooting* in this manual.
Overload	An overload condition exists. See *Troubleshooting*.
Replace Battery	The battery is disconnected or must be replaced. See *Troubleshooting*.

Feature	*Function*
Power On (Test)	Press this button to turn on the UPS. See below for additional capabilities.
Power Off	Press this button to turn off the UPS.

Feature	Function
Cold Start (I Test)	When there is no utility power and the UPS is off, press and hold the (I Test) button to turn on the UPS and connected equipment. The UPS will emit two beeps. During the second beep, release the button.
Self-Test	**Automatic:** The UPS performs a self-test automatically when turned on, and every two weeks thereafter (by default). During the self-test, the UPS briefly operates the connected equipment on battery. **Manual:** Press and hold the (I Test) button for a few seconds to initiate the self-test.

Diagnostic Utility Voltage	The UPS has a diagnostic feature that displays the utility voltage. Connect the UPS into the normal utility power.
<u>220V</u> <u>230V</u> <u>240V</u> O 256 O 266 O 276 O 238 O 248 O 258 O 219 O 229 O 239 O 200 O 210 O 220 O 181 O 192 O 202	**The UPS starts a self-test as part of this procedure.** **The self-test does not affect the voltage display.** Press and hold the (I Test) button to view the utility voltage bar graph display. After a few seconds the five LED, *Battery Charge* display on the right of the front panel shows the utility input voltage. Refer to the figure at left for the voltage reading. Values are not displayed on the UPS. The display indicates the voltage is between the displayed value on the list and the next higher value.

On Battery Operation

The UPS switches to battery operation automatically if the utility power fails. While running on battery, an alarm beeps four times every 30 seconds.

Press the (I Test) button to silence this alarm. If the utility power does not return, the UPS continues to supply power to the connected equipment until the battery is fully discharged.

When 2 minutes of run time remain the UPS emits a continuous beeping. If PowerChute is not being used, files must be manually saved and the computer must be turned off before the UPS fully discharges the battery.

The UPS battery life varies based on usage and environment.

USER CONFIGURABLE ITEMS

NOTE: SETTINGS ARE MADE THROUGH SUPPLIED POWERCHUTE SOFTWARE OPTIONAL SMART SLOT ACCESSORY CARDS OR TERMINAL MODE.			
FUNCTION	FACTORY DEFAULT	USER SELECTABLE CHOICES	DESCRIPTION
Automatic Self-Test	Every 14 days (336 hours)	Every 7 days(168 hours), 14 days (336 hours) On Startup Only, No Self-Test	Set the interval at which the UPS will execute a self-test.
UPS ID	UPS_IDEN	Up to eight characters to define the UPS	Uniquely identify the UPS, (i.e. server name or location) for network management purposes.
Date of Last Battery Replacement	Manufacture Date	Date of Battery Replacement mm/dd/yy	Reset this date when you replace the battery modules.
Minimum Capacity Before Return from Shutdown	0 percent	0, 15, 25, 35, 50, 60, 75, 90 percent	Following a low battery shutdown, the battery modules will be charged to the specified percentage before powering connected equipment.
Alarm Delay After Line Failure	5 second delay	5 or 30 second delay At Low Battery Never	Mute ongoing alarms or disable all alarms permanently.
Shutdown Delay	20 seconds	0, 20, 60, 120, 240, 480, 720, 960 seconds	Set the interval between the time when the UPS receives a shutdown command and the actual shutdown.
Duration of Low Battery Warning.	2 minutes PowerChute software provides automatic, unattended shutdown when approximately 2 minutes of battery operated runtime remains.	2, 5, 7, 10, 12, 15, 18, 20 minutes	The low battery warning beeps are continuous when two minutes of run time remain. Change the warning interval default to a higher setting if the operating system requires a longer interval for shutdown.
Synchronized Turn-on Delay	0 seconds	0, 20, 60, 120, 240, 480, 720, 960 seconds	The UPS will wait the specified time after the return of utility power before turn on (to avoid branch circuit overload).
High Bypass Point	+10% of output voltage setting	+5%, +10%, +15%, +20%	Maximum voltage that the UPS will pass to connected equipment during internal bypass operation.
Low Bypass Point	-30% of output voltage setting	-15%, -20%, -25%, -30%	Minimum voltage that the UPS will send to connected equipment during internal bypass operation.
Output Voltage	230 Vac	220, 230, 240 Vac	Allows the user to select the UPS output voltage while online.
Output Frequency	Automatic 50 ± 3 Hz or 60 ± 3 Hz	50 ± 3 Hz 50 ± 0.1 Hz 60 ± 3 Hz 60 ± 0.1 Hz	Sets the allowable UPS output frequency. Whenever possible, the output frequency tracks the input frequency.
Number of Battery Packs	1	Number of Connected Internal Battery Packs, (two modules per pack)	Defines the number of internal and external connected battery packs for proper run time prediction.

CONNECT THE EMERGENCY POWER OFF OPTION

The output power can be disabled in an emergency by closing a switch connected to the emergency power off (EPO) button.
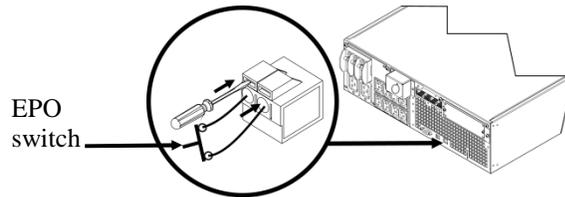
EPO switch

The EPO switch is internally powered by the UPS for use with non-powered switch circuit breakers.

The EPO circuit is considered a Class 2 circuit, (UL, CSA standards) and a SELV circuit (IEC standard).

Both Class 2 and SELV circuits must be isolated from all primary circuitry. Do not connect any circuit to the EPO terminal block unless it can be confirmed that the circuit is Class 2 or SELV.

If circuit standard cannot be confirmed, use a contact closure switch.

Use one of the following cable types to connect the UPS to the EPO switch:

- CL2: Class 2 cable for general use
- CL2P: Plenum cable for use in ducts, plenums, and other spaces used for environmental air.
- CL2R: Riser cable for use in a vertical run in a floor to floor shaft.
- CLEX: Limited use cable for use in dwellings and for use in raceways.

Terminal Mode to Configure UPS Parameters

Terminal Mode is a menu driven interface that enables enhanced configuration of the UPS.

Connect the serial cable (supplied), to the serial com connector on the back of the UPS.

If optional PowerChute *Business Edition* is not installed do not perform step 1. Go directly to step 2 in these instructions.

1. **EXIT** the PowerChute *Business Edition* using the following steps:
    - From the Desktop, go to **Start** => **Settings** => **Control Panel** => **Administrative Tools** => **Services.**
    - Select **PCBE Server** and **PCBE Agent –** right click the mouse and select **Stop.**
2. Open a terminal program. Example: HyperTerminal
    - From the Desktop, go to **Start** => **Programs** => **Accessories** => **Communication** =>**HyperTerminal.**
3. Double-click on the **HyperTerminal** icon.
    - Follow the prompts to choose a name and select an icon. Disregard the message, "...must install a modem," if it is displayed. Click OK.
    - Select the **COM** port that is connected to your UPS. The port settings are:
        - ✓ *bits per second - 2400*
        - ✓ *data - bits 8*
        - ✓ *parity - none*
        - ✓ *stop bit - 1*
        - ✓ *flow control - none*
    - Press ENTER
4. Example for setting the number of external battery packs (SR1192XBP):
    Once the blank terminal window is open, follow these steps to enter the number of battery packs:
    - Press ENTER to initiate terminal mode. Follow the prompts:
        - Press 1 to modify UPS Settings. Press e (or E) to modify the number of battery packs. Enter the number of battery packs, including the internal battery pack (Number of packs: 1= internal battery module, 2 = 1 SR1192XBP,
        3 = 2 SR1192XBP, etc.
        Press ENTER.
        - Follow the prompts.
5. Exit the terminal program.

MAINTENANCE

This UPS has an easy to replace, hot swappable battery module. Replacement is a safe procedure, isolated from electrical hazards. You may leave the UPS and connected equipment on during the procedure.

CAUTION
DAMAGE TO EQUIPMENT
• Once the batteries are disconnected, the devices connected to the UPS are no longer protected from power surges and outages.
• Replace internal and external battery modules with Schneider Electric approved replacement battery modules. Go to the Schneider Electric web site, www.schneider-electric.com for information on replacement battery modules for your UPS and external battery packs.
Failure to follow these instructions can result in equipment damage
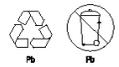
♻ 🔋	**Be sure to deliver used batteries to a recycling facility or ship to the manufacturer in the replacement battery packing material.**

Remove Battery Modules

Shut down and disconnect any equipment attached to the UPS.

Shut down and disconnect the UPS from utility power.

Disconnect the batteries from the UPS.

Replace Battery Modules

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TROUBLESHOOTING

Use the table below to solve minor installation and operation problems. Refer to the APC by Schneider Electric web site, www.apc.com for assistance with complex UPS problems.
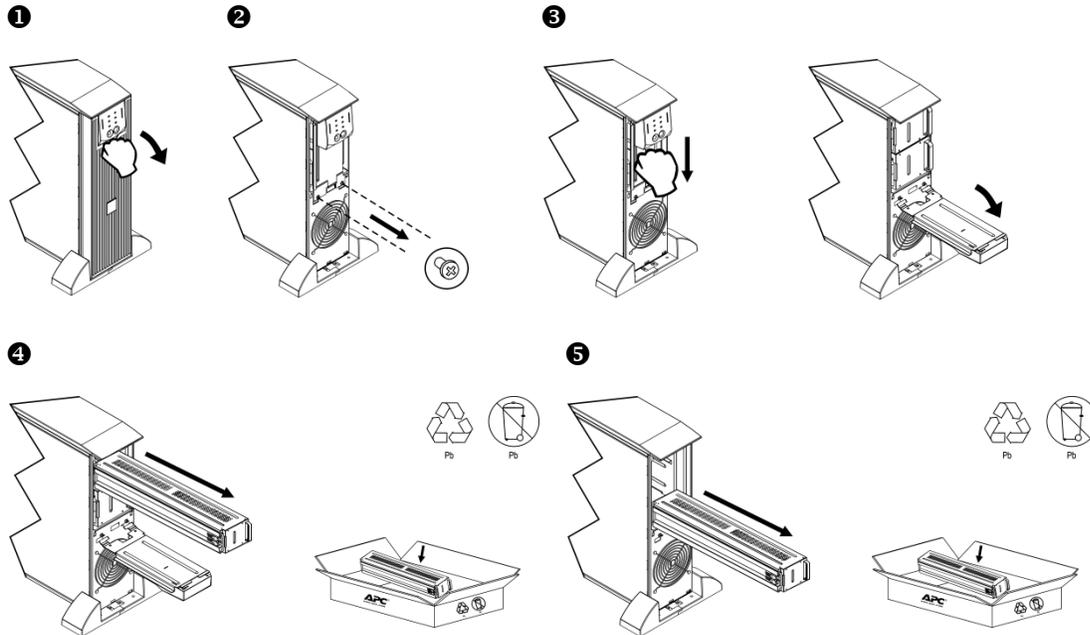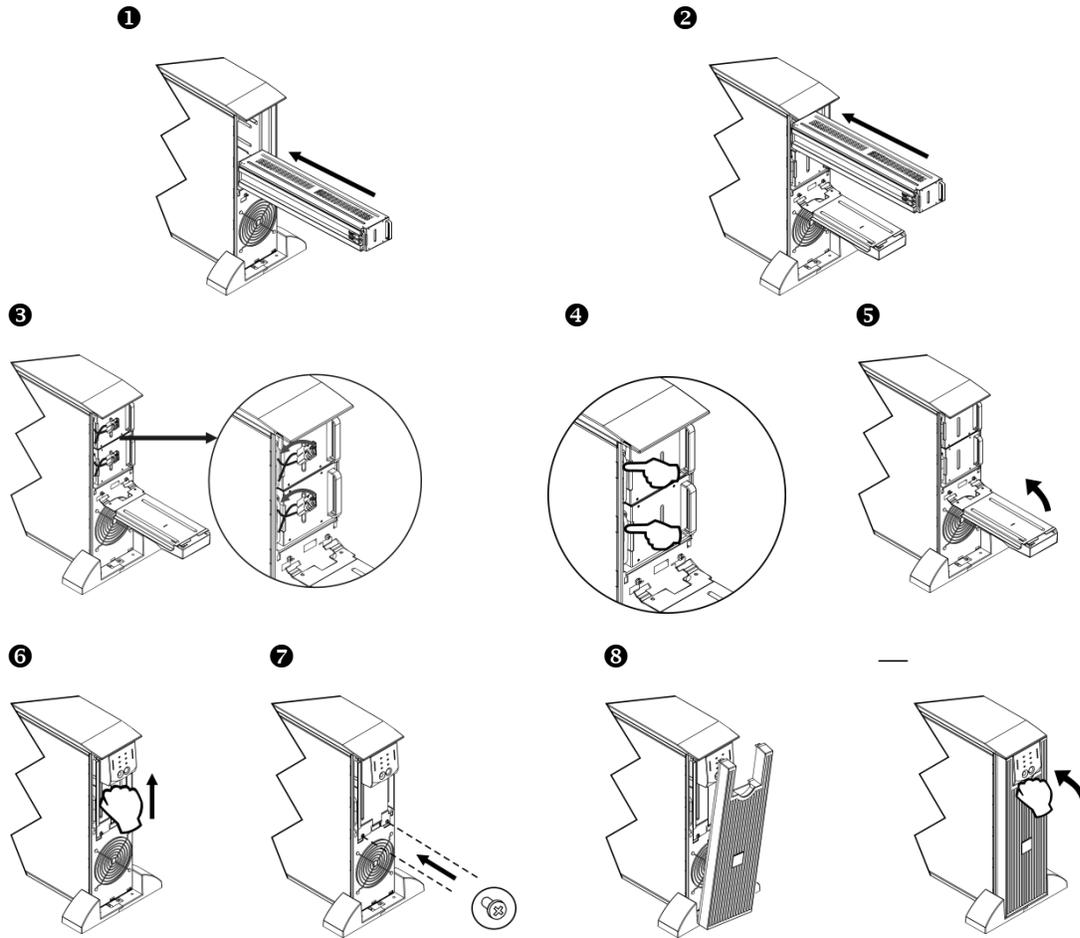
PROBLEM AND POSSIBLE CAUSE	SOLUTION
UPS WILL NOT TURN ON	
Battery not connected properly.	Check that the battery connectors are fully engaged.
(Test) button not pushed.	Press the (Test) button once to power the UPS and the connected equipment.
UPS not connected to utility power supply.	Check that the power cable from the UPS to the utility power supply is securely connected at both ends.
Very low or no utility voltage.	Check the utility power supply to the UPS by plugging in a table lamp. If the light is very dim, have the utility voltage checked.
UPS WILL NOT TURN OFF	
(○) button not pushed.	Press the (○) button once to turn the UPS off.
Internal UPS fault.	Do not attempt to use the UPS. Unplug the UPS and have it serviced immediately.
UPS BEEPS OCCASIONALLY	
Normal UPS operation when running on battery.	None. The UPS is protecting the connected equipment.
UPS DOES NOT PROVIDE EXPECTED BACKUP TIME	
The UPS battery(s) are weak due to a recent outage or battery(s) are near the end of their service life.	Charge the battery(s). Battery modules require recharging after extended outages. They wear faster when put into service often or when operated at elevated temperatures. If the battery(s) are near the end of their service life, consider replacing the battery(s) even if the *Replace Battery* LED is not illuminated.
FRONT PANEL LEDS FLASH SEQUENTIALLY	
The UPS has been shut down remotely through software or an optional accessory card.	None. The UPS will restart automatically when utility power returns.
ALL LEDS ARE OFF AND THE UPS IS PLUGGED INTO A WALL OUTLET	
The UPS is shut down and the battery is discharged from an extended outage.	None. The UPS will return to normal operation when the power is restored and the battery has a sufficient charge.
BYPASS AND OVERLOAD LEDS ILLUMINATE, UPS EMITS A SUSTAINED ALARM TONE	
The UPS is overloaded	The connected equipment exceeds the specified "maximum load" as defined in *Characteristics* on the Schneider Electric web site, www.schneider-electric.com.
	The alarm remains on until the overload is removed. Disconnect nonessential equipment from the UPS to eliminate the overload condition.
BYPASS LED ILLUMINATES	
The bypass switch has been turned on manually or through an accessory.	If bypass is the chosen mode of operation, ignore the illuminated LED.
	If bypass is not the chosen mode of operation move the bypass switch on the back of the UPS, to the *normal* position.
FAULT AND OVERLOAD LEDS ILLUMINATE, UPS EMITS A SUSTAINED ALARM TONE	
The UPS has ceased sending power to connected equipment.	The connected equipment exceeds the specified "maximum load" as defined in *Characteristics* on the Schneider Electric web site, www.schneider-electric.com.
	Disconnect nonessential equipment from the UPS to eliminate the overload condition.
	Press the OFF button, then the ON button to restore power to connected equipment.

PROBLEM AND POSSIBLE CAUSE	SOLUTION
FAULT LED ILLUMINATES	
Internal UPS fault.	Do not attempt to use the UPS. Turn the UPS off and have it serviced immediately.
REPLACE BATTERY LED ILLUMINATES	
Replace Battery LED flashes and short beep is emitted every two seconds to indicate the battery is disconnected.	Check that the battery connectors are fully engaged.
Weak battery.	Allow the battery to recharge for 24 hours. Then, perform a self-test. If the problem persists after recharging, replace the battery.
Failure of a battery self-test.	The UPS emits short beeps for one minute and the *Replace Battery* LED illuminates. The UPS repeats the alarm every five hours. Perform the self-test procedure after the battery has charged for 24 hours to confirm the *Replace Battery* condition. The alarm stops and the LED extinguishes if the battery passes the self-test.
UPS OPERATES ON BATTERY ALTHOUGH NORMAL LINE VOLTAGE EXISTS	
Very high, low, or distorted line voltage. Inexpensive fuel powered generators can distort the voltage.	Move the UPS to a different outlet on a different circuit. Test the input voltage with the utility voltage display.
DIAGNOSTIC UTILITY VOLTAGE	
All five LEDs are illuminated	The line voltage is extremely high and should be checked by an electrician.
There is no LED illumination	If the UPS is plugged into a properly functioning utility power outlet, the line voltage is extremely low.
ONLINE LED	
There is no LED illumination	The UPS is running on battery, or it is not turned on.
The LED is blinking	The UPS is running an internal self-test.

TRANSPORT

1 . Shut down and disconnect all connected equipment.

2 . Disconnect the unit from utility power.

3 . Disconnect all internal and external batteries (if applicable).

4 . Follow the shipping instructions outlined in the *Service* section of this manual.

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 APC by Schneider Electric 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 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, **www.apc.com** for country specific instructions.

3 . Pack the unit properly to avoid damage in transit. Never use foam beads for packaging. Damage sustained in transit is not covered under warranty.

    a. **Note: When shipping within the United States, or to the United States always DISCONNECT ONE UPS BATTERY before shipping in compliance with U.S. Department of Transportation (DOT) and IATA regulations.** The internal batteries may remain in the UPS.

    b. Batteries may remain connected in the XBP during shipment. Not all units utilize XBPs.

4 . Write the RMA# provided by Customer Support on the outside of the package.

5 . Return the unit by insured, prepaid carrier to the address provided by Customer Support.

LIMITED WARRANTY

Schneider Electric IT Corporation (SEIT) warrants its products to be free from defects in materials and workmanship for a period of two (2) years from the date of purchase. The SEIT obligation under this warranty is limited to repairing or replacing, at its own sole option, any such defective products. Repair or replacement of a defective product or parts thereof does not extend the original warranty period.

This warranty applies only to the original purchaser who must have properly registered the product within 10 days of purchase. Products may be registered online at warranty.apc.com.

SEIT shall not be liable under the warranty if its testing and examination disclose that the alleged defect in the product does not exist or was caused by end user or any third person misuse, negligence, improper installation, testing, operation or use of the product contrary to SEIT recommendations or specifications. Further, SEIT shall not be liable for defects resulting from: 1) unauthorized attempts to repair or modify the product, 2) incorrect or inadequate electrical voltage or connection, 3) inappropriate on site operation conditions, 4) Acts of God, 5) exposure to the elements, or 6) theft. In no event shall SEIT have any liability under this warranty for any product where the serial number has been altered, defaced, or removed.

EXCEPT AS SET FORTH ABOVE, THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, BY OPERATION OF LAW OR OTHERWISE, APPLICABLE TO PRODUCTS SOLD, SERVICED OR FURNISHED UNDER THIS AGREEMENT OR IN CONNECTION HEREWITH.
SEIT DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY, SATISFACTION AND FITNESS FOR A PARTICULAR PURPOSE.
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