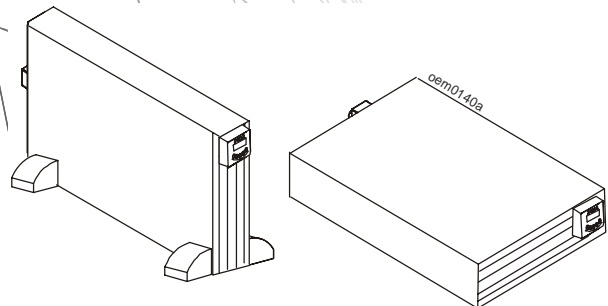


Installation and Operation

Smart-UPS[®]

Uninterruptible Power Supply
Tower/Rack-Mount 2U/3U
SRC5000/6000/8000/10000 VA
XLI/UXI/UXICH
220/230/240 VAC



Smart-UPS[®]

**Uninterruptible Power Supply
Tower/Rack-Mount 2U/3U**

XLICH/UXI/UXICH

SRC 5000/6000/8000/10000 VA

220/230/240 Vac

English

Overview

The APC® by Schneider Electric Smart-UPS® SRC 5/6/8/10 kVA is a high performance uninterruptible power supply (UPS). It provides protection for electronic equipment from utility power blackouts, brownouts, sags, and surges; small utility fluctuations and large disturbances. The UPS also provides battery backup power until utility power returns to safe levels or the batteries are fully discharged.

Install accessories prior to connecting power to the UPS.

Refer to the APC Web site, www.apc.com for available Network Management Card options.

Safety



Read the Safety Guide included in the package before installing the UPS.

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



Recycle the packaging.

Inventory

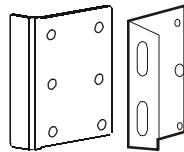
SRC5000/SRC6000



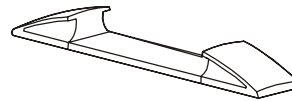
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(6)



(1 pair)



(2)

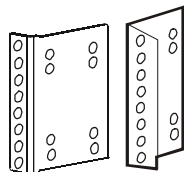
SRC8000/SRC10000



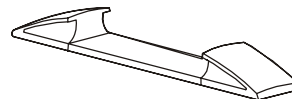
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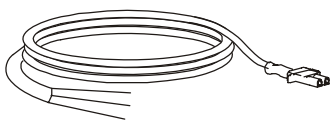


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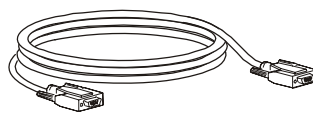
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UXI models only

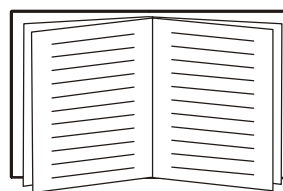


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All models



(1)



(1 User Manual)

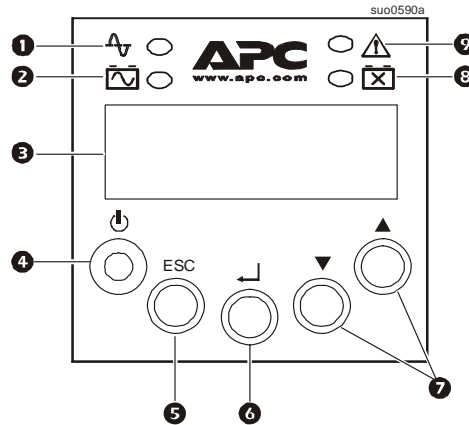


(1 Safety Guide)

Product Overview

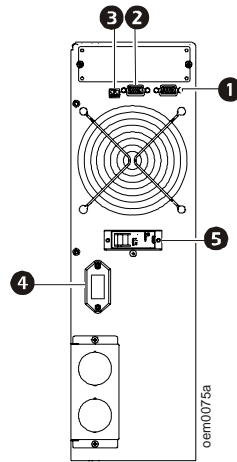
Front panel

Display interface



Indicator	Description
1 Online indicator	The UPS draws utility power and performs double conversion to supply power to the connected equipment.
2 On battery indicator	The UPS supplies battery power to the connected equipment.
3 Display screen	Display interface
4 UPS ON/OFF button	<ul style="list-style-type: none"> Press the ON/OFF button to turn the UPS on and off. Press and hold the ON/OFF button to transfer the UPS into bypass mode. While in bypass mode connected equipment will receive utility power and protection will be provided by the input circuit breaker. During bypass mode operation the UPS does not provide battery back-up power or protection from power fluctuations.
5 Escape button	Press the ESC button to exit a sup-menu and return to the main menu.
6 Enter button	Press the ENTER button to view the sub-menus under each main menu option.
7 Up/Down buttons	Press the UP/ DOWN buttons to scroll through the main menu.
8 Replace battery indicator	The battery is disconnected or must be replaced.
9 Fault indicator	The UPS detects an internal fault.

Rear panel



<i>Feature</i>	<i>Description</i>
❶ Serial Com	Power management software and interface kits can be used with the UPS. Use only interface kits supplied or approved by APC.
❷ Parallel port	Serial ports for communication between two UPS units configured in parallel.
❸ EPO terminal block	The optional Emergency Power Off (EPO) feature allows connected loads to be immediately de-energized from a remote location, without switching to battery operation see “Emergency Power Off” section.
❹ External battery pack connectors	Optional external battery packs provide extended runtime during power outages. These units support up to 9 external battery packs. Refer to the APC Web site www.apc.com , for information on external battery packs. 5000/6000 VA models: SRC192XLBP 8000 VA models: SRC240XLBP1 10000 VA models: SRC240XLBP2
❺ Input circuit breaker	The input circuit breaker must be switched on for the UPS to operate. The input circuit breaker protects the UPS from extreme overload conditions.

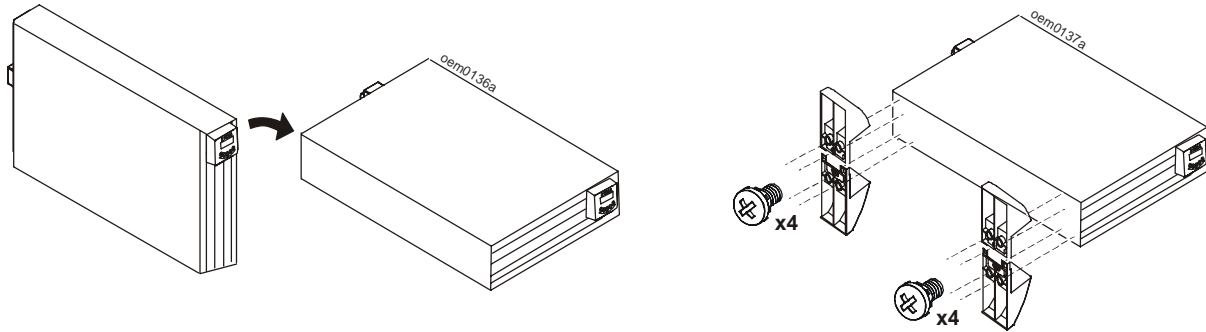
Specifications

Temperature	Operating	0° to 40° C (32° to 104° F)	This unit is intended for indoor use only. Select a location sturdy enough to handle the weight. Do not operate UPS where there is excessive dust or temperature or humidity are outside specified limits. This unit has air vents. Allow adequate space for proper ventilation. Environmental factors impact battery life. High temperatures, poor utility power, and frequent, short duration discharges will shorten battery life.
	Storage	-15° to 45° C (5° to 113° F) charge UPS battery every six months	
Maximum Elevation	Operating	2,000 m (6,500 ft)	
	Storage	15,000 m (50,000 ft)	
Humidity	0% to 95% relative humidity, non-condensing		

Installation

Tower Configuration

Install stabilizer brackets



Hardwiring




Wiring must be performed by qualified electrician.


Adhere to all national and local electrical codes.

Install a utility circuit breaker for input wiring. Refer to the table below.

Input Connections

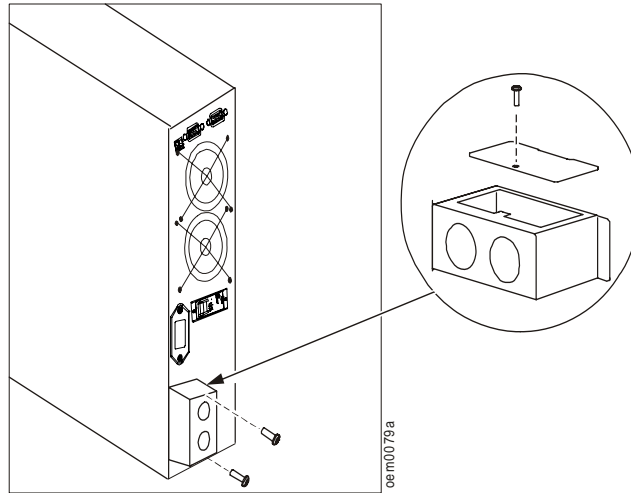
Connect to input L, N, 

Output Connections (optional)

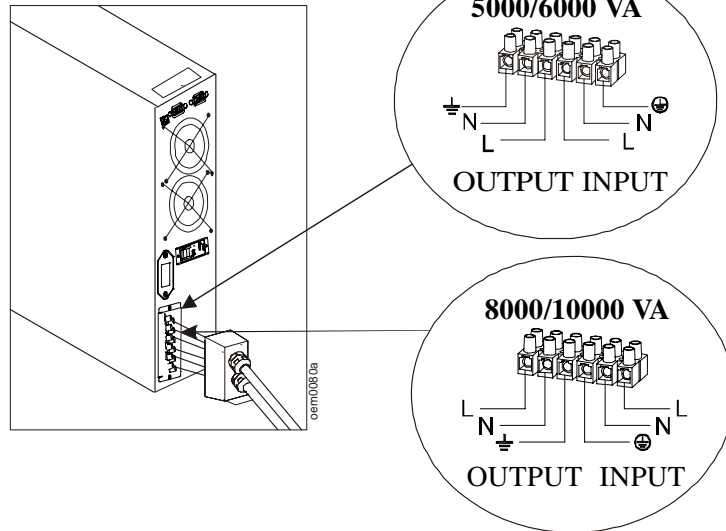
Connect to output L, N, 

System	Wiring	Number of Phases	Voltage	Current Full Load Nominal	External Input Circuit Breaker Typical	Wire Size Typical
SRC5000	Input	1	220/230/240 Vac	23 A	40 A 2-pole	6 mm ²
	Output	1	220/230/240 Vac	23 A	N/A	6 mm ²
SRC6000	Input	1	220/230/240 Vac	32 A	40 A 2-pole	8 mm ²
	Output	1	220/230/240 Vac	32 A	N/A	8 mm ²
SRC8000	Input	1	220/230/240 Vac	41 A	63 A 2-pole	10 mm ²
	Output	1	220/230/240 Vac	41 A	N/A	10 mm ²
SRC10000	Input	1	220/230/240 Vac	50 A	63 A 2-pole	10 mm ²
	Output	1	220/230/240 Vac	50 A	N/A	10 mm ²

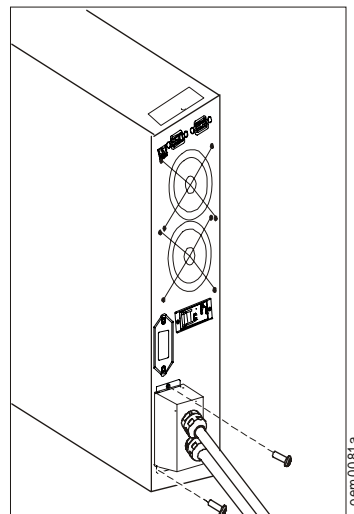
1. Switch the UPS input circuit breaker and the utility circuit breakers **OFF**.
2. Remove the two screws that secure the input access panel to the UPS.
3. Remove the screw that secures the small panel located on the top of the access panel. Remove the small panel.
4. Remove one circular knockout panel.
5. Insert the wires through the access panel to the terminal block.



6. Connect the terminal block ground wire first, (green=ground, brown=hot, blue=neutral).
7. Secure the small panel from the top of the access panel with the use of the screw removed in step 3.



8. Secure the access panel to the UPS using the two screws removed in step 2.



Connect External Batteries

Battery Safety

Read and adhere to all safety warnings when the external battery packs are installed.

Failure to observe these warnings may result in serious injury, death or damage to the equipment.



- Do not attempt to install the external battery packs. A qualified electrician should perform the installation of the external battery packs.

Practices

- Always wear:
 - Goggles or face shields
 - Acid-resistant, insulated gloves
 - Protective aprons
 - Protective overshoes or rubber boots
- Always Use:
 - Insulated tools
 - Rubber mats to cover batteries during servicing
 - Rubber mats or rubber stands on the floor
 - Adequate lifting devices
- Remove: watches, rings, and other metal objects from your body

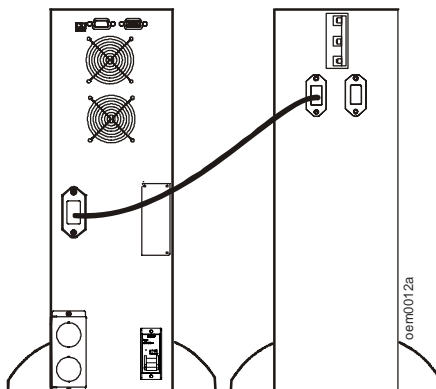
Precautions

- Do not lay tools or metal parts on top of battery packs.
- Lead-acid batteries contain hazardous, toxic materials.
 - Do not open, alter or mutilate battery packs. Internal materials may be harmful to the skin and eyes.
 - Do not dispose of batteries in a fire. There is danger of explosion.
- Handle, transport and recycle batteries in accordance with local codes and regulations.

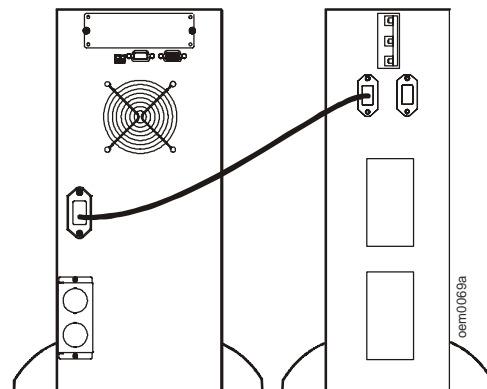
APC Battery Solution

See the APC Web site www.apc.com, or contact an APC dealer for information regarding the APC external battery pack.

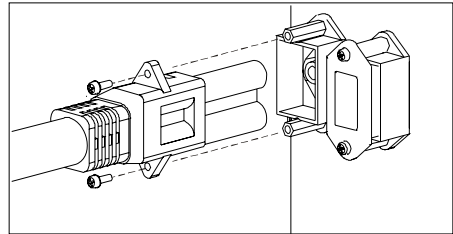
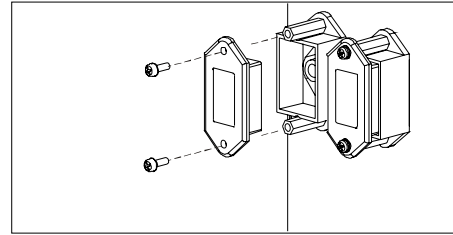
SRC5000/6000 VA



SRC8000/10000 VA



1. Set the circuit breaker switch on the rear panel of external battery pack to the **OFF** position.
2. Remove battery connector cover on both the UPS and the battery pack. Keep the screws.
3. Plug the XLBP cable into the UPS external battery pack receptacle.
4. Secure the cable on the UPS and the battery pack with the screws removed in step 2.
5. Set the circuit breaker switch on the rear panel of the battery pack to the **ON** position.



Oem0070a

Third party battery solution: UXI and UXICH models only

Batteries must be Sealed Lead-Acid type.

Use 50 A, 250 VDC fuses with an interrupt rating of > 20,000 A.

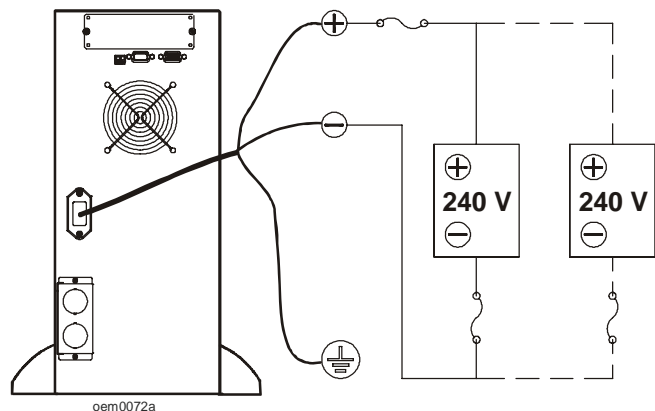
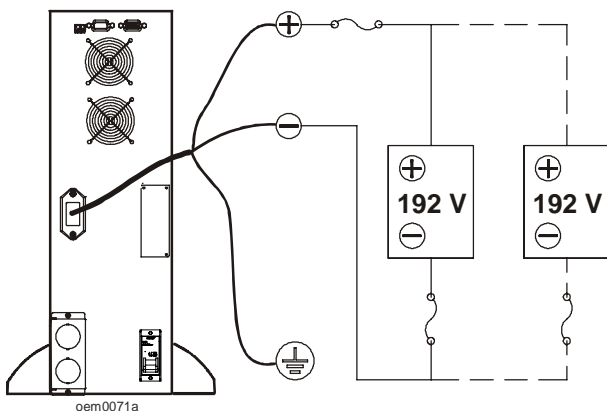
If a non-APC battery pack is used, a 192 V battery string should be connected to the UPS with the use of the enclosed battery cable.

5000/6000 VA: Requires a 192 V battery system when using a third party battery solution.

8000/10000 VA: Requires a 240 V battery system when using a third party battery solution.

Connect ground and battery system

1. Connect the ground wire to each battery enclosure.
2. Connect the positive (red), and negative (black) wires to the positive and negative terminals on each external battery system. Ensure that the proper polarities are connected.
3. Insert the cable connectors into the battery connector on the back of the UPS.



Configuration

Using the display interface

Use the **UP** and **DOWN** keys to scroll through the main menu options. Press **ENTER** to view the sub-menus under each main menu option. Press **ESCAPE** to exit a sub-menu and return to a main menu.

Standard menus

The Standard menus are the most commonly used menus for UPS configuration.

Menu	General Functions
Status	View basic information about the UPS: <ul style="list-style-type: none">• Operating mode• Information about the load• Number of battery packs and the total number of Amp hours• Battery voltage and capacity• Estimated runtime• Input and output voltage and frequency• Information about the last transfer to battery power• Self-test results
Configuration	Configure the settings for the UPS: <ul style="list-style-type: none">• Audible alarms• Reset to Factory Defaults• Select Standard or Advanced menus
Test & Diags	Use the Test & Diags menu to have the UPS perform a self-test.
About	Display information about this unit: <ul style="list-style-type: none">• Unit model number• Serial number• Battery installation date• Suggested battery replacement date

Advanced menus

The Advanced menus provide additional options for the UPS and are available only if the display interface is configured to use the Advanced menus.

Menu	General Functions
Status	View detailed information about the UPS: <ul style="list-style-type: none">• Energy meter• Load current
Configuration	Configure advanced settings for the UPS: <ul style="list-style-type: none">• Select Standard or Advanced menus• Select the number of battery packs and the total number of Amp hours• High and low transfer points• Language• Output voltage and frequency• Low battery warning• Minimum return capacity• Return delay• Shutdown delay• Auto self-test• Redundancy power alarm
Test & Diags	Perform a UPS alarm test or a runtime calibration test.
Log	View the event log for information about any changes to the UPS and any faults.
About	View information about the unit: <ul style="list-style-type: none">• Manufacture date• Firmware version

UPS Settings

Configure the settings using the display interface or terminal mode.

Function	Factory Default	Options	Description
Language	English	English, French, German, Spanish, Italian and Portuguese	Set the language used on the LCD manual.
Menu type	Normal	Normal, Advanced	Select Advanced mode for extra information.
Output voltage	<i>UXI models:</i> 230 VAC <i>XLICH/ UXICH models:</i> 220 VAC	220, 230, 240 VAC	Allows the user to select the output voltage while on-line.
Output frequency	Auto	Auto • 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.
Upper bypass voltage	+10% of output voltage setting	+5%, +10%, +15%, +20%	Maximum voltage that the UPS will pass to connected equipment during internal bypass operation.
Lower bypass voltage	-15% of output voltage setting	-15%, -20%, -25%, -30%	Minimum voltage that the UPS will pass to the connected equipment during internal bypass operation.
Low battery warning	2 minutes	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.
Minimum Return Capacity	0%	0, 15, 25, 35, 50, 60, 75, 90%	After a low-battery shutdown, the batteries will be charged to the specified percentage before the connected equipment is powered.
Return Delay	0 seconds	0, 20, 60, 120, 240, 480, 720, 960 seconds	Set the return time delay (in seconds).
Shutdown Delay	20 second	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.
Audible Alarm	Immediately	Immediately, 30 second delay, At Low Battery, Never	Mute ongoing alarms or disable all alarms permanently.
Auto Self Test	Turn On +14 Days	Never, Turn On Only, Turn On +7 Days, Turn On +14 Days	Set the interval at which the UPS will execute a self-test.
Redundancy Power Alarm	Enable	Enable, Disable	Set the alarm if two UPS units are in parallel and the load is higher than the output rating of one UPS.
External Battery Packs	1	1, 2, 3, 4, 5, 6, 7, 8, 9	Set the number of connected external battery packs.
Ext Battery Total Ah	80 Ah	0000-9999	Set the external battery capacity connected to UPS. 5/6 kVA=80 Ah; 8 kVA=140Ah; 10 kVA=180Ah

Terminal Mode

Configure the UPS connection settings using the UPS terminal mode.

Connect the serial cable to the serial port on the back of the UPS. If using USB communication to the UPS, disconnect USB cable prior to connecting serial cable.

1. Open a terminal program, such as HyperTerminal
From the Desktop, go to: **Start, Programs, Accessories, Communication, HyperTerminal**
2. Follow the prompts to choose a name and select an icon. Disregard the message, "...must install a modem," if it is displayed. **Click Cancel**
3. Go to **File, Properties**. 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**
4. Click **OK** in each of two windows
5. Press **ENTER**

Configure the number of battery packs using UPS terminal mode

1. Once the blank terminal window is open, follow these steps to enter the number of battery packs:
NOTE: Letter key commands are case sensitive. Use capital letters when using letter key commands.
2. Press **Y**. The UPS will respond with **SM** in the command box. If the UPS does not respond to the **Y** command, ensure the serial cable is securely connected to the serial port on the UPS. Use only an APC supplied serial cable.
3. When **SM** appears in the command box press the **>** key. The UPS will respond with the number of battery packs connected to the UPS. If the UPS has not been previously programmed to recognize the number of battery packs this number will be 1.
4. Use the **+** or **-** keys to change the number of battery packs. **OK** will appear in the command box.
5. Press **>** key. The number of battery packs will appear in the command box.
NOTE: The **+** or **-** keys and the **>** key must be used again to change the number of battery packs from this point in the programming.
6. Press **R**. The UPS will respond with **BYE** in the command box.

Battery configuration tables

Smart-UPS XLICH Models - Configure the number of battery packs. Each battery pack consists of one 192 V or one 240 V battery module.
Count the number of battery packs being used and enter that number.

	Configuration	# of Battery Packs
Factory Default	UPS with 1 external battery pack	1
SRC192XLBP 5000 VA/6000 VA	UPS with 1 external battery pack	1
	UPS with 2 external battery packs	2
	UPS with 3 external battery packs	3
	UPS with 4 external battery packs	4
SRC240XLBP1 8000 VA	UPS with 1 external battery pack	1
	UPS with 2 external battery packs	2
	UPS with 3 external battery packs	3
	UPS with 4 external battery packs	4
SRC240XLBP2 10000 VA	UPS with 1 external battery pack	1
	UPS with 2 external battery packs	2
	UPS with 3 external battery packs	3
	UPS with 4 external battery packs	4

Smart-UPS UXI/UXICH Models - Configure the number of battery packs. Each battery pack consists of one 192 V or one 240 V battery module.
Count the number of battery packs being used and enter that number.

	Configuration	# of Battery Packs
Factory Default	UPS with 1 external battery pack	1
SRC192XLBP 5000 VA/6000 VA	UPS with 1 external battery pack	1
	UPS with 2 external battery packs	2
	UPS with 3 external battery packs	3
SRC240XLBP1 8000 VA	UPS with 1 external battery pack	1
	UPS with 2 external battery packs	2
	UPS with 3 external battery packs	3
SRC240XLBP2 10000 VA	UPS with 1 external battery pack	1
	UPS with 2 external battery packs	2
	UPS with 3 external battery packs	3

Emergency Power Off

The Emergency Power Off (EPO) option is a safety feature that will immediately shut off power to all connected equipment. When the EPO button is pushed, all connected equipment will immediately turn off and will not switch to battery power.

Wiring must be performed by a qualified electrician.

Adhere to all national and local electrical codes when wiring the EPO.

The switch should be connected in a normally open switch contact. External voltage is not required; the switch is driven by 24 V internal supply. In closed condition, 4 mA of current are drawn.

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

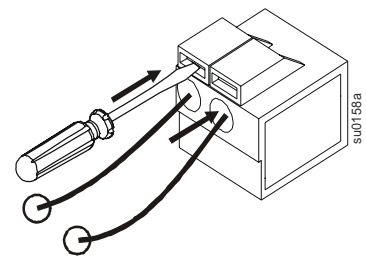
The EPO circuit is considered a Class 2 circuit, (UL, CSA standards) and a SELV circuit (IEC standard).

EPO connector

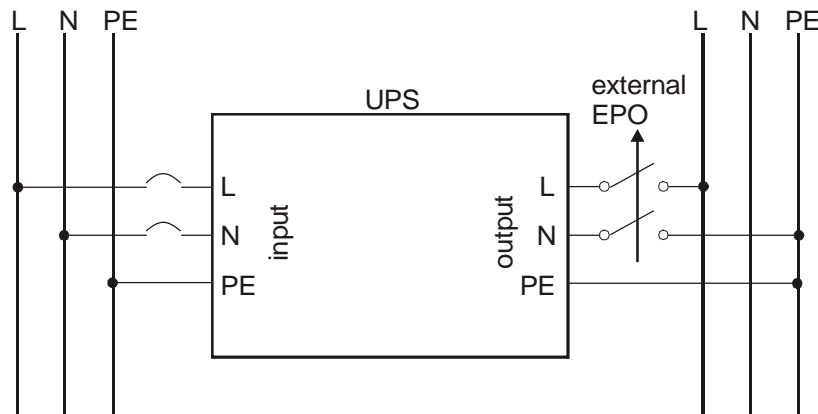
located on the UPS rear panel



- Strip insulation from one end of each wire to be used for connecting EPO.
- Insert screwdriver into the slot above terminal to be wired. Insert stripped wire into terminal. Remove screwdriver to secure wire in terminal. Repeat for each terminal.



Use only approved components when configuring the external EPO.



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.
- For installation in Canada: Use only CSA certified, type ELC, (extra-low voltage control cable).
- For installation in other countries: Use standard low-voltage cable in accordance with national and local regulations.

Troubleshooting

Use the table below to solve minor UPS installation and operation problems. Refer to the APC Web site, www.apc.com for assistance with complex UPS problems.

Problem and Possible Cause	Solution
UPS does not turn on	
Battery not connected properly	Check that the battery connectors are fully engaged.
The ON/OFF button was not pressed.	Press the ON/OFF button once to power the UPS and the connected equipment.
The UPS is not connected to the utility power supply.	Check that the power cable from the UPS to the utility power supply is securely connected at both ends.
There is a very low or no utility voltage.	Check the utility power supply to the UPS and plug in a table lamp. If the light is very dim, the utility voltage should be checked.
The UPS does not turn on	
The ON/OFF button was not pressed.	Press the ON/OFF 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	
This is Normal UPS operation with the use of a battery.	None. The connected equipment is protected by the UPS.
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). Batteries require recharging after extended outages. Batteries wear faster when put into service often or when operated at elevated temperatures. If the battery(s) are near the end of the predicted service life, consider a battery replacement (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.

Problem and Possible Cause	Solution
Bypass Overload alarm on LCD panel, UPS emits a sustained alarm tone	
The UPS is overloaded	The connected equipment exceeds the specified maximum load as defined in specifications on the APC Web site at www.apc.com . The alarm remains on until the overload is removed. Disconnect nonessential equipment from the UPS to eliminate the overload condition.
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 and perform a self-test. If the problem persists after the battery is recharged, 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 charges for 24 hours to confirm the Replace Battery condition. The alarm stops and the LED clears if the battery passes the self-test.
The UPS operates on a battery although the 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
Online LED	
There is no LED illumination	The UPS is powered by the battery, or is not turned on.
The LED blinks	The UPS is powered by the internal self-test.

Maintenance and Transport

Battery Replacement

The external battery packs do not have user replaceable battery modules. Contact APC at www.apc.com to order replacement external battery packs.



Once the battery packs have been disconnected the connected equipment is not protected from power outages.

When the battery packs have been replaced the LED on the display interface will prompt the user to enter a new battery replacement date.



Return spent batteries to an appropriate facility for proper disposal and recycling.

Prepare the UPS for transport

1. Disconnect the UPS from all external battery packs.
2. Shut down and disconnect all equipment connected to the UPS.
3. Shut down and disconnect the UPS from utility power.
4. Follow shipping instructions outlined in “Service” on page 17 in this manual.

Regulatory and Agency Approvals

Radio Frequency Warnings

Class A

This device complies with EN62040-2 Class A requirements. Operation is subject to the following two conditions:

This device may not cause harmful interference.

This device must accept any interference received, including interference that may cause undesired operation.

Service

If the UPS requires service do not return it to the dealer. Follow these steps:

1. Review the problems discussed in “Troubleshooting” on page 12 in this manual to eliminate common problems.
2. If the problem persists, contact APC Customer Support through the APC Web site, **www.apc.com**.
 - a. Note the model number of the UPS, the serial number located on the rear side of the unit, and the date purchased. If you call APC Customer Support, a technician will ask you to describe the problem and attempt to solve it over the phone. If this is not possible, the technician will issue a Returned Material Authorization Number (RMA#).
 - b. If the UPS is under warranty, repairs are free.
 - c. Procedures for servicing or returning products may vary internationally. Refer to the APC Web site for country specific instructions.
3. Pack the UPS in its original packaging. If this is not available, refer to **www.apc.com** for information about obtaining a new set.
 - a. Pack the UPS properly to avoid damage in transit. Never use Styrofoam beads for packaging. Damage sustained in transit is not covered under warranty.
 - b. **Always DISCONNECT THE UPS BATTERY before shipping in compliance with U.S. Department of Transportation (DOT) and IATA regulations.** Mark the RMA# on the outside of the package.
4. Return the UPS by insured, prepaid carrier to the address given to you by Customer Support.

Contact Information

APC Worldwide Customer Support

Customer support for this or any other APC product is available at no charge in any of the following ways:

- Refer to the APC Web site to access documents in the APC Knowledge Base and to submit customer support requests.
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 - **www.apc.com**
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Smart-UPS Factory Warranty

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