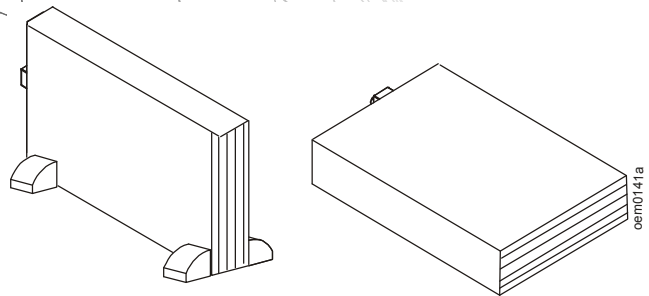


Installation and Operation

Smart-UPS[™]

External Battery Pack
Tower/Rack-Mount 2U/3U

SRC192XLBP2
SRC240XLBP3



oem0141a

Smart-UPS™
External Battery Pack
Tower/Rack-Mount 2U/3U

SRC192XLBP2

SRC240XLBP3

English

Product Description

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

General Information

Safety Messages

Read the instructions carefully to become familiar with the equipment before attempting to install, operate, service or maintain the UPS. 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 Danger or Warning safety label indicates that an electrical hazard exists which will result in personal injury if the instructions are not followed.



The addition of this symbol to a Warning or 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** minor or moderate injury.

CAUTION

CAUTION addresses practices not related to physical injury including certain environmental hazards, potential damage or loss of data.



Safety Information

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

- Adhere to all national and local electrical codes.
- All wiring must be performed by a qualified electrician.
- Changes and modifications to this unit not expressly approved by APC by Schneider Electric could void the warranty.
- 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.
- For a UPS with a factory installed power cord, connect the UPS power cable directly to a wall outlet. Do not use surge protectors or extension cords.
- The battery typically lasts for two to five years. Environmental factors impact battery life. Elevated ambient temperatures, poor quality AC power, and frequent short duration discharges will shorten battery life.
- The equipment is heavy. Always practice safe lifting techniques adequate for the weight of the equipment.
- The batteries are heavy. Remove the batteries before installing the UPS and external battery packs (XLBPs), in a rack.
- Always install XLBPs at the bottom in rack-mount configurations. The UPS must be installed above the XLBPs.
- Always install peripheral equipment above the UPS in rack-mount configurations.

Deenergizing safety

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;

- Input circuit breaker is in the **OFF** position
- XLBP battery modules are disconnected

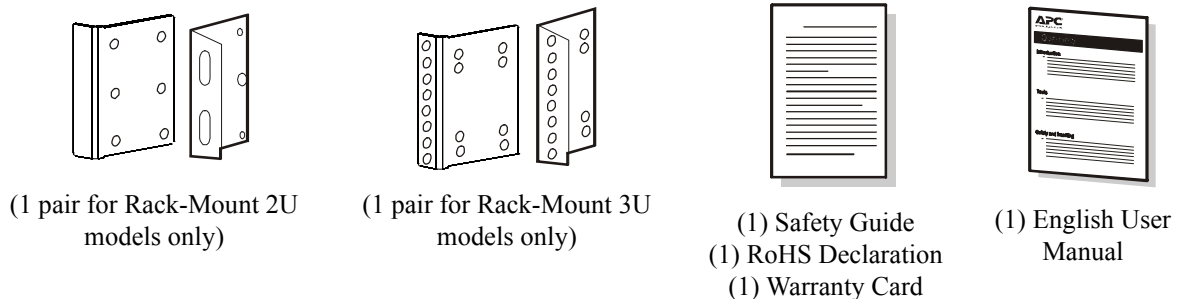
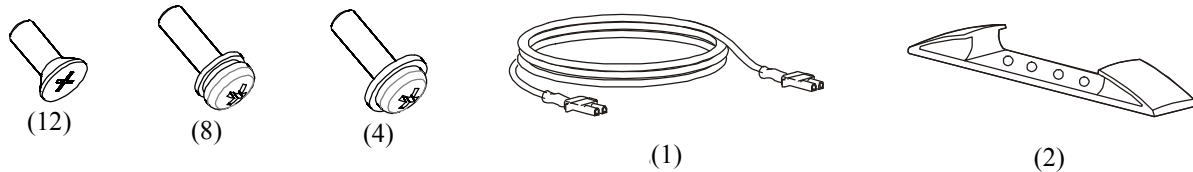
Battery safety

- Before installing the batteries, remove jewelry such as wristwatches and rings.
High short circuit current through conductive materials could cause severe burns.
- Do not dispose of batteries by burning them. The batteries may explode.
- Do not open or mutilate batteries. Released electrolyte is harmful to the skin and eyes, and may be toxic.

General information

- The UPS will recognize as many as 9 external battery packs connected to the UPS.
Note: For each XLBP added, increased recharge time will be required.
- The model number is located on the top side of the UPS, and its serial number on the rear panel. 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.

Inventory

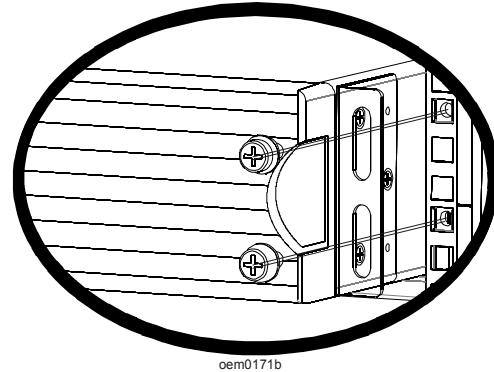
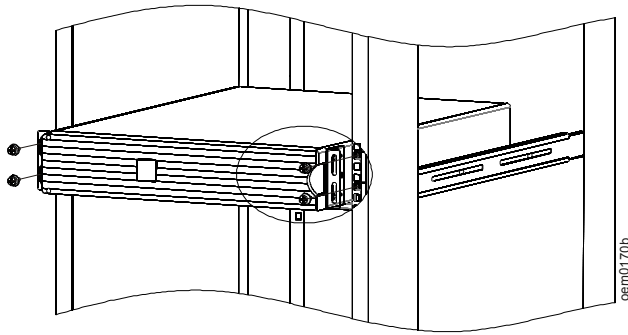


Specifications

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.
	Storage	-15° to 45° C (5° to 113° F) charge UPS battery every six months	
Maximum Elevation	Operating	3,000 m (10,000 ft)	Do not operate UPS where there is excessive dust or temperature or humidity are outside specified limits.
	Storage	15,000 m (50,000 ft)	
Humidity	0% to 95% relative humidity, non-condensing		This unit has air vents. Allow adequate space for proper ventilation. Environmental factors impact battery life. High temperatures, poor AC power, and frequent, short duration discharges will shorten battery life.

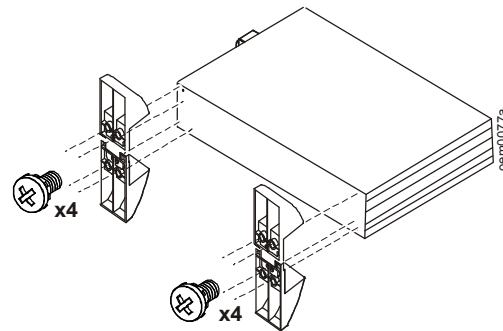
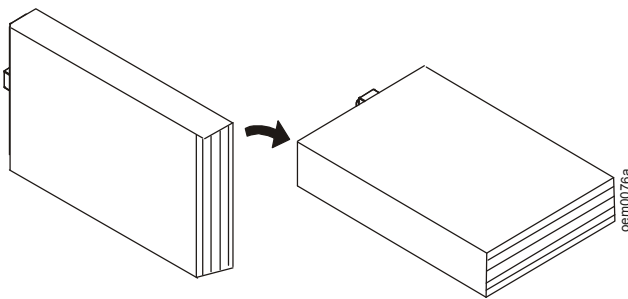
Installation

Rack-Mount Configuration



Tower Configuration

Install stabilizer brackets



Connect External Battery Packs to UPS

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

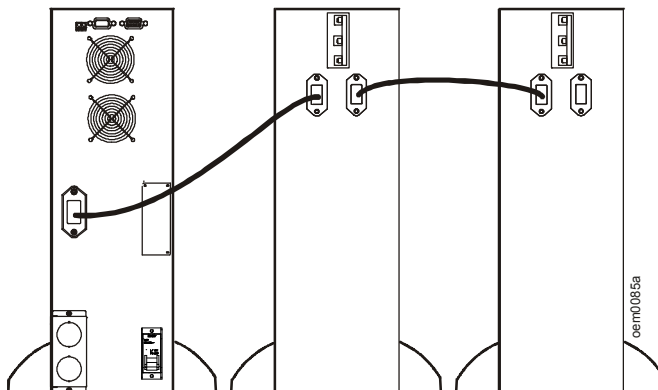
- Always wear:
 - Goggles or face shields
 - Acid-resistant, insulated gloves
 - Protective aprons
 - Protective overshoes or rubber boots
- Always Use:
 - Insulated tools
 - Rubber mats to cover batteries during servicing
 - Rubber mats or rubber stands on the floor
 - Adequate lifting devices
- Remove: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

Precautions

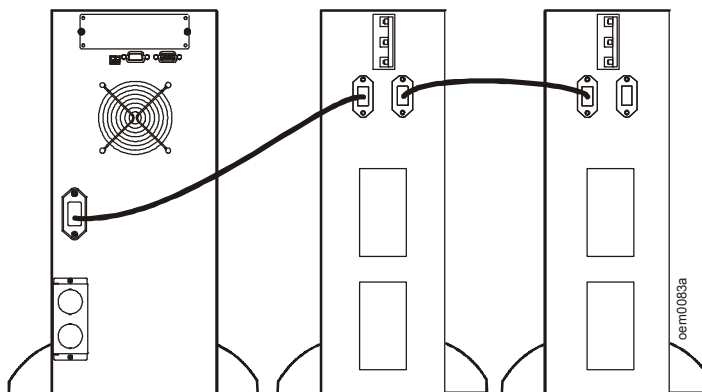
- Do not lay tools or metal parts on top of battery packs.
- Lead-acid batteries contain hazardous, toxic materials. Do not open, alter or mutilate battery packs. Internal materials may be harmful to the skin and eyes. Do not dispose of batteries in a fire. There is danger of explosion.
- Handle, transport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

Installation

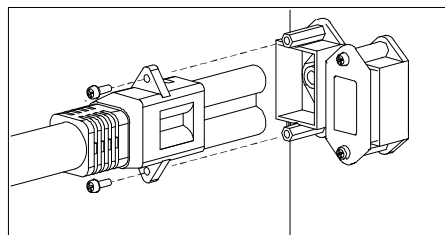
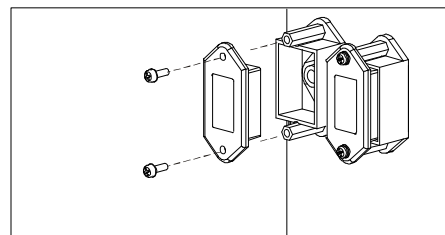
SRC192XLBP2



SRC240XLBP3



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.



Configure UPS Parameters

This configuration affects the accuracy of the predicted runtime calculations the UPS performs while running on battery power.

Refer to the *Battery String Configuration* tables at the end of this section for detailed instructions.

Smart-UPS RC models must be programmed to recognize the number of battery strings connected to the UPS. There are four options available for configuring the UPS to recognize the number of battery strings

1. UPS terminal mode
2. UPS display interface

Configure UPS connection settings using 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 strings through the display interface menus

1. Press the **Enter** key into the main menu.
Main Menu
Status
2. Scroll down to configuration.
Main Menu
Configuration
3. Press the enter key into the menu of configuration.
Language
English
4. Scroll down to battery setup by number of battery pack.
Ext Battery
Packs: 0
5. Select the correct number of battery pack.

Configure the number of battery strings using UPS terminal mode

1. Once the blank terminal window is open, follow these steps to enter the number of battery strings:
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 by Schneider Electric supplied serial cable.
3. When **SM** appears in the command box press the **>** key. The UPS will respond with the number of battery strings connected to the UPS. If the UPS has not been previously programmed to recognize the number of battery strings this number will be 1.
4. Use the **+** or **-** keys to change the number of battery strings. **OK** will appear in the command box.
5. Press **>** key. The number of battery strings will appear in the command box.
NOTE: The **+** or **-** keys and the **>** key must be used again to change the number of battery strings from this point in the programming.
6. Press **R**. The UPS will respond with **BYE** in the command box.

Battery configuration tables

Smart-UPS XLI 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
SRC192XLBP2 5000 VA/6000 VA	UPS with 2 external battery packs	2
	UPS with 3 external battery packs	3
	UPS with 4 external battery packs	4
SRC240XLBP3 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

Maintenance, Transport and Service

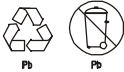
Battery Replacement

The external battery packs do not have user replaceable battery modules. Contact APC by Schneider Electric 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.

Transport

1. Shut down and disconnect all connected equipment.
2. Disconnect the unit from AC 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 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 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 XLBPs.
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.

Two Year Limited Factory 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's or any third person's misuse, negligence, improper installation, testing, operation or use of the product contrary to SEIT's 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.

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To obtain service under warranty you must obtain a Returned Material Authorization (RMA) number from customer support. Customers with warranty claims issues may access the SEIT worldwide customer support network through the SEIT Web site: www.apc.com. Select your country from the country selection drop down menu. Open the Support tab at the top of the web page to obtain information for customer support in your region. Products must be returned with transportation charges prepaid and must be accompanied by a brief description of the problem encountered and proof of date and place of purchase.

APC by Schneider Electric Worldwide Customer Support

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

- Visit the APC by Schneider Electric Web site to access documents in the APC by Schneider Electric Knowledge Base and to submit customer support requests.
 - **www.apc.com** (Corporate Headquarters)
Connect to localized APC by Schneider Electric Web sites for specific countries, each of which provides customer support information.
 - **www.apc.com/support/**
Global support searching APC by Schneider Electric Knowledge Base and using e-support.
- Contact the SEIT Customer Support Center by telephone or e-mail.
 - Local, country specific centers: go to **www.apc.com/support/contact** for contact information.
 - For information on how to obtain local customer support, contact the APC by Schneider Electric representative or other distributors from whom you purchased your APC by Schneider Electric product.

Customer support and warranty information is available at the APC by Schneider Electric Web site, **www.apc.com**.