



# Operation Manual

## Smart-UPS<sup>™</sup> X

### Uninterruptible Power Supply

#### Low Voltage 100-127 VA

SMX2000RMLV2U

SMX2200RMLV2U

SMX3000RMLV2U

SMX3000RMLV2UNC

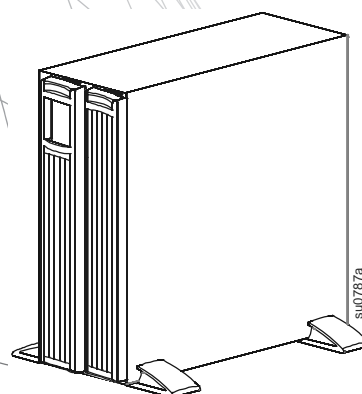
SMX3000RMJ2U

#### High Voltage 200-240 VA

SMX2200RMHV2U

SMX3000RMHV2U

SMX3000RMHV2UNC



# Product Description

The APC™ by Schneider Electric Smart-UPS™ is a high performance uninterruptible power supply (UPS). The UPS provides protection for electronic equipment from utility power blackouts, brownouts, sags, and surges, small utility power 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 CD and on the APC by Schneider Electric web site, [www.apc.com](http://www.apc.com).

## Important Safety Messages

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.

The following safety messages may appear throughout this manual to warn of potential hazards.

 <b>CAUTION</b>
<b>CAUTION</b> indicates a potentially hazardous situation which, if not avoided, <b>can result in</b> equipment damage and minor or moderate injury.

<b>CAUTION</b>
<b>CAUTION</b> indicates a potentially hazardous situation which, if not avoided, <b>can result in</b> equipment damage.

## 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.**

- Adhere to all local and national electrical codes.
- 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 five years. Environmental factors impact battery life. Elevated ambient temperatures, poor quality utility 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.
- The batteries are heavy. Remove the batteries prior to installing the UPS in a rack.
- Always install external battery packs (XLBPs) at the bottom of the rack. The UPS must be installed above the XLBPs.
- The UPS display interface will recognize as many as 10 external battery packs connected to the UPS. However there is no limit to the number of XLBPs that can be used with the UPS.

# Product Overview

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## Specifications

### Environmental Specifications

For additional specifications, refer to the APC by Schneider Electric web site at [www.apc.com](http://www.apc.com).

<b>Temperature</b>	<b>Operating</b>	0° to 40° C (32° to 104° F)
	<b>Storage</b>	-15° to 45° C (5° to 113° F) charge UPS battery every six months
<b>Maximum Elevation</b>	<b>Operating</b>	3,000 m (10,000 ft)
	<b>Storage</b>	15,000 m (50,000 ft)
<b>Humidity</b>	0% to 95% relative humidity, non-condensing	

## High and Low Voltage Models

### Low Voltage (100-127 V)

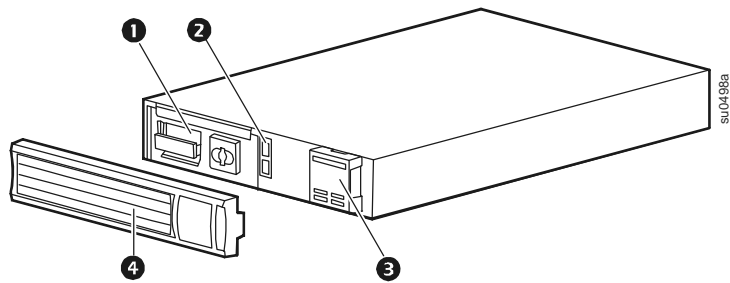
SMX2000RMLV2U  
SMX2200RMLV2U  
SMX3000RMLV2U  
SMX3000RMLV2UNC  
SMX3000RMJ2U

### High Voltage (200-240 V)

SMX2200RMHV2U  
SMX3000RMHV2U  
SMX3000RMHV2UNC

# Front Panel Features

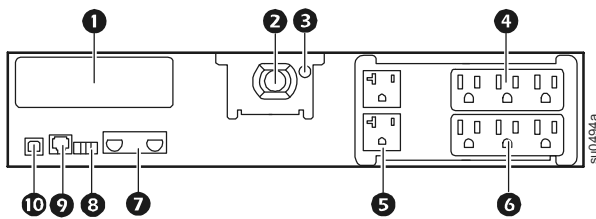
- ❶ Battery
- ❷ Battery connector
- ❸ Display interface
- ❹ Bezel



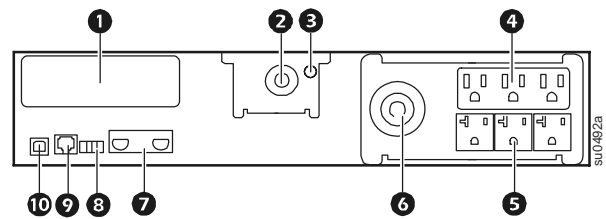
# Rear Panel Features

- ❶ SmartSlot
- ❷ UPS input
- ❸ Chassis ground screw
- ❹ Controllable Outlet Group 1
- ❺ Controllable Outlet Group 2
- ❻ Controllable Outlet Group 3
- ❼ External battery pack connector
- ❽ EPO connector
- ❾ Serial port
- ❿ USB port

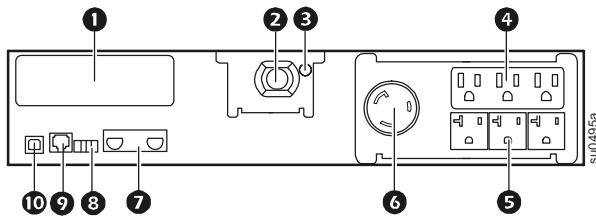
2200 VA Low Voltage



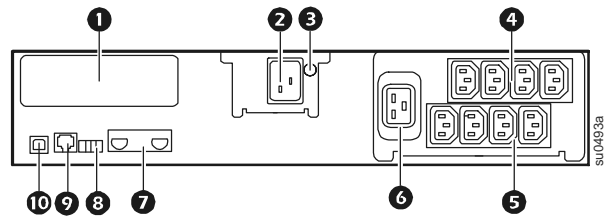
2000 VA Low Voltage



3000 VA Low Voltage

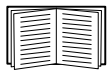


2200/3000 VA High Voltage



# Installation

## UPS



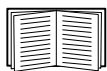
For UPS installation information, refer to the Smart-UPS X 2000-3000 VA Installation Guide that is included with the UPS. The guide is also available on the enclosed CD and the APC by Schneider Electric web site at [www.apc.com](http://www.apc.com).

## Network Management Card



For installation information, refer to the user manual provided with the Network Management Card (NMC). The user manual is also available on the APC by Schneider Electric web site at [www.apc.com](http://www.apc.com).

## External Battery Pack



For installation information, refer to the SMX 120RMBP2U external battery pack Installation Guide that is included with the external battery pack (XLBP). The guide is also available on the enclosed CD and the APC by Schneider Electric web site at [www.apc.com](http://www.apc.com).

# Operation

## Connect Equipment to the UPS

### CAUTION

#### RISK OF EQUIPMENT DAMAGE

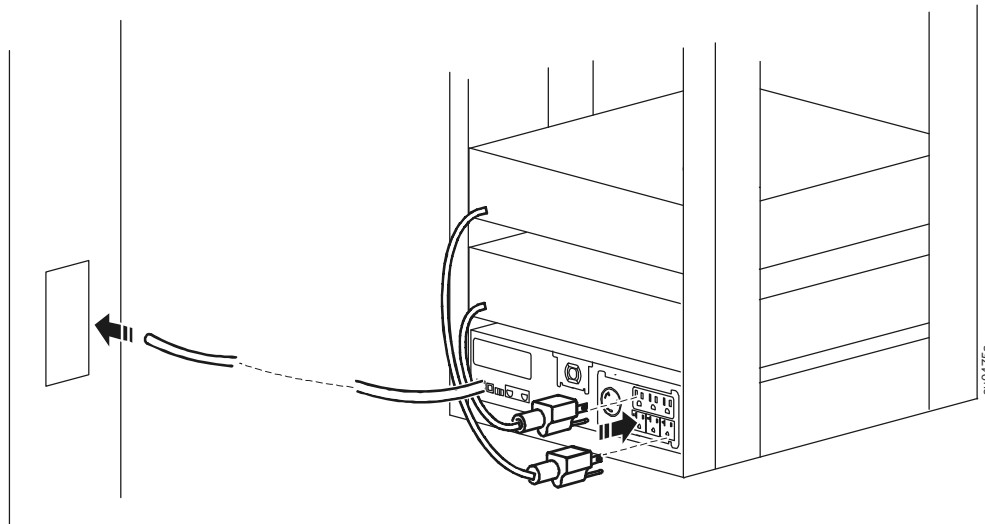
- Adhere to all local and national electrical codes.
- Wiring should be performed by qualified electrician.
- Always connect the UPS to a grounded outlet.

**Failure to follow these instructions can result in equipment damage**



**Note:** The UPS will charge to 90% capacity in the first three hours of normal operation. **Do not expect full battery runtime capability during this initial charge period.**

1. Connect equipment to the outlets on the rear panel of the UPS.
2. Connect the UPS to the building utility power.  
**Always connect the UPS to a two pole, three wire, grounded source.**
3. To use the UPS as a master ON/OFF switch, turn on all the equipment that is connected to the UPS.
4. Press the ON/OFF button on the front panel of the UPS to turn on the UPS and all connected equipment.
5. See “Switched Outlet Groups” on page 12 for information on how to use the switched outlet groups.



## Basic Connections



**Serial port:** Connect to a computer to use power management software, use the serial cable included with the unit.



**USB port:** Connect to a computer to use power management software.  
**Note:** Serial and USB communication can not be used simultaneously.



**External Battery Pack connector:** Connect external battery packs to provide extended runtime during power outages. The UPS can support up to 10 external battery packs.

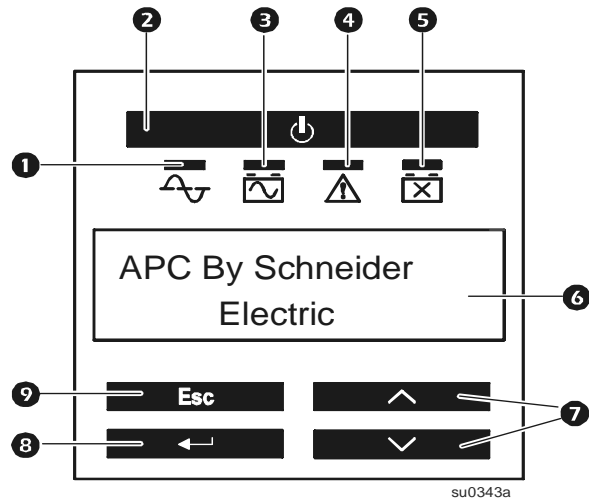


**Ground Screw:** The UPS features a ground screw for connecting the ground leads on transient voltage devices. Prior to connecting a ground lead, disconnect the UPS from utility power.

# Display Interface

## Overview

- ❶ Online LED
  - ❷ UPS Output On/Off button
  - ❸ On Battery LED
  - ❹ Site Wiring Fault LED
  - ❺ Replace Battery LED
  - ❻ Display screen
  - ❼ UP/DOWN arrow buttons
  - ❽ ENTER button
- 
- ❾ ESCAPE button



## Using the display interface

Use the UP/DOWN arrow buttons to scroll through the main menu options. Press ENTER to view the submenu under each main menu option. Press ESCAPE to exit a submenu and return to a main menu.

## Menu Overview

The Smart-UPS has Standard and Advanced menu screens. The Standard menu screens are the most commonly used screens. The Advanced menu screens are for more advanced users to configure additional features on the UPS.



**Note:** Actual menu screens may vary.

Main Menu	Overview	Standard	Advanced
<b>Scrolling Screens</b>	On Utility (the UPS is operating on utility power)		X
	Outlet Group Status		X
	Input and Output voltage		X
	Load meter		X
	Battery charge and runtime		X
	Warnings		X
	Load and Battery graphs	X	
<b>Status</b>	Operating Mode	X	X
	Efficiency in % (Green mode only)	X	X
	Input and output voltage	X	X

<b>Main Menu</b>	<b>Overview</b>	<b>Standard</b>	<b>Advanced</b>
	Load power (W) and VA	x	x
	Load (A)		x
	Load meter (kWh)		x
	Last transfer to battery power information	x	x
	Battery charge and estimated run time	x	x
	Battery voltage		x
	Number of external battery packs		x
	Internal battery temperature		x
	Run time calibration test results	x	x
	Self-test results	x	x
	Status of the switched outlet group(s): On, Off, Sleep, Reboot, Turning On, Turning Off		x
	Smart Slot information (if applicable)		x
<b>Configuration</b>	Language	x	x
	Local power quality	x	x
	Standard or Advanced menus	x	x
	Audible alarms	x	x
	High and low transfer points		x
	Low run time warning		x
	Green mode (enable/disable)		x
	Output voltage	x	x
	Battery self-test interval	x	x
	Battery installation date	x	x
	UPS firmware update (only available when output is off)	x	x
	UPS setup wizard	x	x
	Reset to factory defaults	x	x
	Switched outlet group(s) delays and settings		x
	Smart Slot configuration (if applicable)		x
<b>Control</b>	Switched outlet group(s): Turn on, turn off, put to sleep, or reboot		x
<b>Test &amp; Diagnostics</b>	UPS self-test.	x	x
	Runtime calibration test.	x	x
	Alarm and display test.	x	x
<b>Statistics</b>	Statistics about transfers to battery power, time on battery, and total operating time		x
<b>Logs</b>	Transfer log		x
	Status log		x
	Fault log		x

Main Menu	Overview	Standard	Advanced
<b>About</b>	<p>General information about the UPS, including: model numbers, output voltage setting, serial number, manufacture date, replacement battery cartridge information, firmware versions, and suggested battery replacement date.</p> <p>SmartSlot card information (if applicable), including IP address</p> <p>PowerChute Business Edition information (if applicable)</p>	x	x

# Configuration

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## UPS Settings

### Start up Settings

Use the display interface to configure these settings at initial start up. The UPS will prompt for a response to each setting, if no response is given, the default setting will be used.



**Note:** The unit will not turn on until all of these settings are entered.

Function	Factory Default	Options	Description
<b>Language</b>	English	<ul style="list-style-type: none"><li>• English</li><li>• French*</li><li>• German*</li><li>• Spanish*</li><li>• Italian*</li><li>• Portuguese*</li></ul>	The language for the display interface.  *Language options will vary by model.
<b>Output Voltage</b>	Low Voltage: 120 V  High Voltage: 230 V	<ul style="list-style-type: none"><li>• 100</li><li>• 110</li><li>• 120</li><li>• 127</li><li>• 200</li><li>• 208</li><li>• 220</li><li>• 230</li><li>• 240</li></ul>	Set the output voltage setting while the UPS is in <b>Standby</b> mode.
<b>Input Power Quality</b>	Good	<ul style="list-style-type: none"><li>• Good</li><li>• Fair</li><li>• Poor</li></ul>	Select the quality of input utility power. <ul style="list-style-type: none"><li>• If Good is selected, the unit will go on battery power more often to provide the cleanest power supply to the connected equipment.</li><li>• If Poor is selected, the UPS will tolerate more fluctuations in power and will go on battery power less often.</li></ul> If unsure of the local power quality, select Good.
<b>Menu Type</b>	Standard	Standard or Advanced	The advanced menus include all parameters. The Standard menus display a limited set of menus and options.
<b>Date</b>	UPS manufacture date + 90 days	mm-yyyy	Enter the current date.

## General Settings

Configure these settings at any time, using the display interface, PowerChute™ software, or a network management card.

Function	Factory Default	Options	Description
<b>High Transfer Point</b>	<b>Low Voltage</b>		To avoid unnecessary battery usage, set the transfer point higher if the utility voltage is chronically high and the connected equipment is known to work under this condition. The POWER QUALITY setting will automatically change this setting. <b>Note:</b> Use the Advanced Menus to configure this setting.
	100 V: 108 Vac	108-114 Vac	
	110 V: 116 Vac	116-125 Vac	
	120 V: 127 Vac	127-136 Vac	
	127 V: 134 Vac	134-143 Vac	
	<b>High Voltage</b>		
	200 V: 216 Vac	216-228 Vac	
	208 V: 220 Vac	220-235 Vac	
	220 V: 242 Vac	242-254 Vac	
	230 V: 253 Vac	253-265 Vac	
<b>Low Transfer Point</b>	<b>Low Voltage</b>		Set the transfer point lower if the utility voltage is chronically low and the connected equipment can tolerate this condition. The POWER QUALITY setting will automatically change this setting. <b>Note:</b> Use the Advanced Menus to configure this setting.
	100 V: 92 Vac	86-92 Vac	
	110 V: 98 Vac	89-98 Vac	
	120 V: 106 Vac	97-106 Vac	
	127 V: 112 Vac	103-112 Vac	
	<b>High Voltage</b>		
	200 V: 184 Vac	172-184 Vac	
	208 V: 184 Vac	169-184 Vac	
	220 V: 198 Vac	186-198 Vac	
	230 V: 207 Vac	195-207 Vac	
<b>Green Mode</b>	If the UPS input voltage is between the high transfer point and the lower transfer point, the unit will operate in green mode. Configure this setting using the Advanced menus.		
<b>Transfer Sensitivity</b>	Normal	<ul style="list-style-type: none"> <li>• Normal</li> <li>• Reduced</li> <li>• Low</li> </ul>	Select the level of sensitivity to power events that the UPS will tolerate. <ul style="list-style-type: none"> <li>• Normal: The UPS will go on battery power more often to provide the cleanest power supply to the connected equipment.</li> <li>• Reduced: The UPS will tolerate some fluctuations in power.</li> <li>• Low: The UPS will tolerate more fluctuations in power and will go on battery power less often.</li> </ul>
		If the connected load is sensitive to power disturbances, set the sensitivity to Normal using the advanced Configuration menu.	
<b>Low Runtime Warning</b>	150 sec	Set the value in seconds	The UPS will emit an audible alarm when the remaining runtime has reached this level.
<b>Date of Last Battery Replacement</b>	Date set at factory	Reset this date when the battery module is replaced.	

Function	Factory Default	Options	Description
<b>Audible Alarm</b>	On	On/Off	The UPS will never beep if all audible alarms are set to Off or when the display buttons are pressed.
<b>Auto Self-Test Interval Setting</b>	On start-up and every 14 days since the last test	<ul style="list-style-type: none"> <li>• Last test + 14 days</li> <li>• Last test + 7 days</li> <li>• Turn on + 14 days</li> <li>• Turn on + 7 days</li> <li>• On startup only</li> <li>• Never</li> </ul>	The interval at which the UPS will execute a self-test. The batteries must be charged to at least 70% capacity to perform the test.
<b>Reset to Factory Default</b>	No	Yes/No	Restore the UPS factory default settings.

## Switched Outlet Groups

### Overview

The Switched Outlet Groups can be configured to independently turn off, turn on, shut down, put into sleep mode, and reboot connected equipment.

The Switched Outlet Groups can be commanded to do the following:

- Turn off: Disconnect from power immediately and restart only with a manual command
- Turn on: Connect to power immediately
- Shutdown: Disconnect power in sequence, and automatically reapply power in sequence when utility power becomes available
- Reboot: Shut down and restart
- Sleep: Reboot after a long delay

In addition, the Switched Outlet Groups can be configured to do the following:

- Turn on or off in a specified sequence
- Automatically turn off or shut down when various conditions occur



**Note:** Whether the Switched Outlet Groups are configured or not, all of the outlets provide battery backup power.

### Using the Switched Outlet Groups

1. Connect critical equipment to a Switched Outlet Group.
2. Connect peripheral equipment to the other Switched Outlet Groups.
  - During a power outage, to conserve battery runtime, nonessential equipment can be configured to shut down after a short delay
  - If equipment has dependent peripherals that must restart or shut down in a specific order, such as an ethernet switch that must restart before a connected server, connect the devices to separate groups
  - Equipment that needs to reboot independently from other equipment should be added to a separate group
3. Use the Configuration menus to configure how the Switched Outlet Groups will react in the event of a power outage.

## Customize the Switched Outlet Groups

Use the **Control** menus to customize the Switched Outlet Groups.

Function	Factory Default	Options	Description
<b>Name String Outlet Group</b>	Outlet Group 1, 2, 3	Edit these names using an external interface, such as the Network Management Card web interface.	
<b>UPS Name String</b>	APC UPS		
<b>Turn On Delay</b>	0 sec	Set the value in seconds	The amount of time the Switched Outlet Groups will wait between receiving the command to turn on and the actual startup.
<b>Turn Off Delay</b>	90 sec	Set the value in seconds	The amount of time that the Switched Outlet Groups will wait between receiving the command to turn off and the actual shut down.
<b>Reboot Duration</b>	8 sec	Set the value in seconds	The amount of time that the Switched Outlet Groups must remain off before it will restart.
<b>Minimum Return Time</b>	0 sec	Set the value in seconds	The amount of battery runtime that must be available before the Switched Outlet Groups will turn on again after a shutdown.
<b>Load Shed On Battery</b>	Disabled	<ul style="list-style-type: none"> <li>• Shutdown with Delay</li> <li>• Shutdown immediately</li> <li>• Turn off immediately</li> <li>• Turn off with delay</li> <li>• Disabled</li> </ul>	<p>When the unit switches to battery power, the UPS can disconnect power to the Switched Outlet Groups to save runtime.</p> <p>Configure this delay time, use the LOAD SHED TIME WHEN ON BATTERY setting.</p>
<b>Load Shed Time when On Battery</b>	Disabled	Set the value in seconds	The amount of time the outlets will function on battery power before they will turn off.
<b>Load Shed On Runtime</b>	Disabled	<ul style="list-style-type: none"> <li>• Shutdown with delay</li> <li>• Shutdown immediately</li> <li>• Turn off immediately</li> <li>• Turn off with delay</li> <li>• Disabled</li> </ul>	Configure this time using the LOAD SHED RUNTIME REMAINING setting.
<b>Load Shed On Runtime Remaining</b>	Disabled	Set the value in seconds	When the remaining runtime reaches this level, the Switched Outlet Groups will turn off.
<b>Load Shed on Overload</b>	Disabled	<ul style="list-style-type: none"> <li>• Disabled</li> <li>• Enabled</li> </ul>	In the event of an overload (greater than 105% output), the Switched Outlet Groups will immediately turn off to conserve power for critical loads. The Switched Outlet Groups will only turn on again with a manual command.

## Network Management Card Settings

These settings are available only on units that have a Network Management Card (NMC).

- NMC IP Address Mode
- NMC Default Gateway

# Emergency Power Off

## EPO Overview

The Emergency Power Off (EPO) option is a safety feature that will immediately disconnect all connected equipment from utility power. The UPS will immediately shut down and will not switch to battery power.

Connect each UPS to the EPO switch.

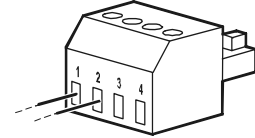
The UPS must be manually restarted to reapply power to connected equipment. Press ON/OFF on the front panel of the UPS.

**Adhere to all national and local electrical codes. Wiring must be performed by a qualified electrician.**

## Normally open contacts

1. If the EPO switch or relay contacts are normally open, insert the wires from the switch or contacts at pins 1 and 2 of the EPO terminal block. Use 16-28 AWG wire.
2. Secure the wires by tightening the screws.

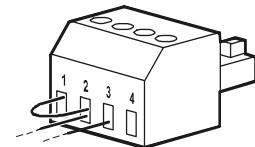
If the contacts are closed, the UPS will turn OFF and power will be removed from the load.



## Normally closed contacts

1. If the EPO switch or relay contacts are normally closed, insert the wires from the switch or contacts at pins 2 and 3 of the EPO terminal block. Use 16-28 AWG wire.
2. Insert a wire jumper between pins 1 and 2. Secure the wires by tightening the three screws at positions 1, 2, and 3.

If the contacts are opened, the UPS will turn OFF and power will be removed from the load.



**Note:** Pin 1 is the power source for the EPO circuit, it provides a few milliamperes of 24 V power.

If the normally closed (NC) EPO configuration is used, the EPO switch or relay should be rated for dry circuit applications, the rating should be for low voltage and low current applications. This normally implies the contacts are gold-plated.

The EPO interface is a Safety Extra Low Voltage (SELV) circuit. Connect the EPO interface only to other SELV circuits. The EPO interface monitors circuits that have no determined voltage potential. SELV circuits are controlled by a switch or relay properly isolated from utility power. To avoid damage to the UPS, do not connect the EPO interface to any circuit other than a SELV circuit.

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

# Troubleshooting

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<b>Problem and Possible Cause</b>	<b>Solution</b>
<b>The UPS will not turn on or there is no output</b>	
The unit has not been turned on.	Press the ON button to turn on the UPS.
The UPS is not connected to utility power.	Ensure that the power cable is securely connected to the unit and to the utility power supply.
There is an internal UPS fault.	Do not attempt to use the UPS. Unplug the UPS and have it serviced immediately.
<b>The UPS is operating on battery, while connected to utility power</b>	
There is very high, very low, or distorted input line voltage or frequency.	Move the UPS to a different outlet on a different circuit. Test the input voltage with the utility voltage display. If acceptable to the connected equipment, reduce the UPS sensitivity.
	Test the utility input power to ensure the unit is receiving input power.
<b>UPS is emits intermittent beeps</b>	
The UPS is in normal operation.	The UPS is protecting the connected equipment. See the display interface to view the status of the UPS.
<b>UPS does not provide expected backup time</b>	
The UPS battery is weak due to a recent outage or is near the end of its service life.	Charge the battery. Batteries require recharging after extended outages and wear out faster when put into service often or when operated at elevated temperatures. If the battery is near the end of its service life, consider replacing the battery even if the replace battery indicator is not yet illuminated.
The UPS is overloaded.	Check the UPS load display. Unplug unnecessary equipment, such as printers.
<b>The Fault LED is illuminated The UPS displays a fault message and emits a constant beeping sound</b>	
Internal UPS fault.	Do not attempt to use the UPS. Turn the UPS off and have it serviced immediately.
<b>The Replace Battery LED is illuminated</b>	
The battery has a weak charge.	Allow the battery to recharge for at least four hours. Then, perform a self-test. If the problem persists after recharging, replace the battery.
The replacement battery is not properly connected.	Ensure that the battery connector is securely connected.
<b>The display interface has a Site Wiring Fault message</b>	
Wiring faults detected include missing ground, hot-neutral polarity reversal, and overloaded neutral circuit.	If the UPS indicates a site wiring fault, have a qualified electrician inspect the building wiring. (Applicable for Low Voltage (120 V) units only.)

# 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 APC by Schneider Electric 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.
  - a. **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.
  - b. External Battery Pack products are deenergized when disconnected from the associated UPS product. It is not necessary to disconnect the internal batteries for shipping. Not all units utilize an external battery pack.
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.

# 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.

# 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.

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Connect to localized APC by Schneider Electric web site for specific countries, each of which provides customer support information.
  - **www.apc.com/support/**  
Global support searching APC Knowledge Base and using e-support.
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