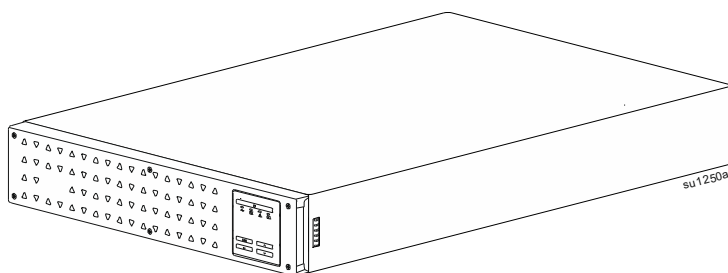




# User Manual

## Smart-UPS™ Uninterruptible Power Supply

**2200/3000 VA**  
**Rack-Mount 2U**  
**120 Vac**





# Important Safety Instructions

SAVE THESE INSTRUCTIONS - This manual contains important instructions that should be followed during installation and maintenance of the UPS and batteries.

Read the instructions carefully. Become familiar with the device before trying to install, operate, service or maintain it. The following special messages may appear throughout this document 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 either to a “Danger” or “Warning” safety label indicates that an electrical hazard exists that will result in personal injury if the instructions are not followed.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

## **DANGER**

**DANGER** indicates a hazardous situation which, if not avoided, **will result in death or serious injury**.

## **WARNING**

**WARNING** indicates a hazardous situation which, if not avoided, **could result in death or serious injury**.

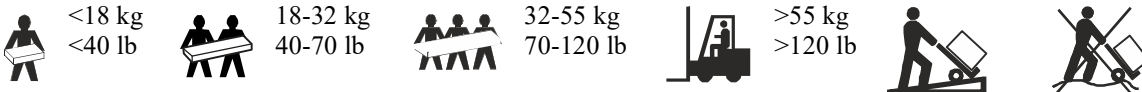
## **CAUTION**

**CAUTION** indicates a hazardous situation which, if not avoided, **could result in minor or moderate injury**.

## **NOTICE**

**NOTICE** is used to address practices not related to physical injury.

# Product Handling Guidelines



# Safety and General 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 unit 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 equipment is heavy. Always practice safe lifting techniques adequate for the weight of the equipment.

## 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.
- Internal UPS batteries are removed.

## Electrical safety

- Use tools with insulated handles.
- Do not handle any metallic connector before power has been disconnected.
- For models with a hardwired input, the connection to the branch circuit (mains) must be performed by a qualified electrician.
- 230 V models only: In order to maintain compliance with the EMC directive for products sold in Europe, output cords attached to the UPS must not exceed 10 meters in length.
- The protective earth conductor for the UPS carries the leakage current from the load devices (computer equipment). 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 typically be green, with or without a yellow stripe.
- Leakage current for a pluggable, Type A UPS may exceed 3.5 mA when a separate ground terminal is used.
- The UPS input ground conductor must be properly bonded to protective earth at the service panel.
- If the UPS input power is supplied by a separately derived system, the ground conductor must be properly bonded at the supply transformer or motor generator set.

## Hardwire safety

- Check 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.
- Wiring by a qualified electrician is required.
- Check national and local codes before wiring.
- Strain relief is required for all hardwiring (supplied with select products). Snap in type strain reliefs are recommended.
- All openings that allow access to UPS hardwire 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.

## Battery safety

### **WARNING**

#### **RISK OF CHEMICAL HAZARD AND EXCESSIVE HEAT**

- Replace the battery at least every 10 years, or at the end of its service life, whichever is earlier.
- Replace the battery immediately when the UPS indicates battery replacement is necessary.
- Replace batteries with the same number and type of batteries as originally installed in the equipment.
- Replace the battery immediately when the UPS indicates a battery over-temperature condition or UPS internal over-temperature. Power off the UPS, unplug it from the AC input, and disconnect the batteries.
- Do not operate the UPS until the batteries have been replaced.

**Failure to follow these instructions can result in death or serious injury.**

**Note:** Servicing of batteries should be performed or supervised by personnel knowledgeable about batteries and the required precautions.

- The battery typically lasts for five to ten years. Environmental factors impact battery life. Elevated ambient temperatures, poor quality utility power, and frequent short duration discharges will shorten battery life.

- For longest battery performance, the ambient temperature should be maintained between 68 and 77 °F (20 and 25 °C).
- Replace the battery module immediately if the unit indicates battery replacement is necessary.
- Replace the battery module once the battery module have reached the end of their service life even if the UPS has not indicated that battery replacement is necessary.
- The batteries are user replaceable. Under normal operating conditions, there is no need for replacement. If attempting to replace batteries,
  - Use only APC by Schneider Electric battery modules.
  - Do not use third-party batteries as replacements.
  - Replace with the same number and type of batteries as originally installed in the equipment.
- APC by Schneider Electric uses Lithium Ion batteries. Under normal use and handling, there is no contact with the internal components of the battery.
- Do not drive nails into the battery pack.
- Do not strike the battery pack with a hammer.
- Do not stand on the battery pack.
- Do not short circuit battery pack.
- Do not place or use the battery pack near heat or fire.
- Do not use a dropped, damaged or deformed battery pack.
- Do not use the battery pack to power other equipment.
- CAUTION: A battery can present a risk of electrical shock and high short-circuit current. Contact with any part of a grounded battery can result in electrical shock. The following precautions should be observed when working on batteries:
  - Wear rubber gloves and boots.
  - Do not lay tools or metal parts on top of batteries.
  - Disconnect charging source and load prior to installing or maintaining the battery.
  - Remove battery grounds during installation and maintenance to reduce likelihood of shock.
  - Remove the connection from ground if any part of the battery is determined to be grounded.
- CAUTION: Before installing or replacing the batteries, remove conductive jewelry such as chains, wrist watches and rings. High energy through conductive materials could cause severe burns.
- CAUTION: Do not dispose off the battery pack in a fire. The batteries may explode.
- CAUTION: Do not open or tamper with the battery enclosure. Doing so will expose the cell terminals which pose an energy hazard.
- CAUTION: Do not open or mutilate the battery or batteries. Released electrolyte is harmful to the skin and eyes. It may be toxic.
- CAUTION: Failed batteries can reach temperatures that exceed the burn thresholds for touchable surfaces.

## General information

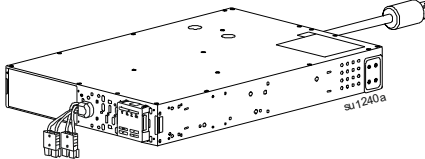

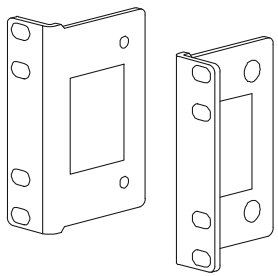
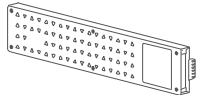
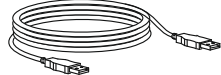
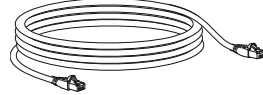
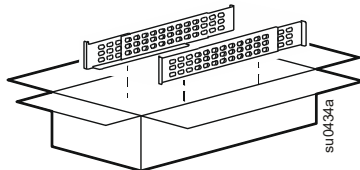




- The model and serial numbers are located on a small, rear panel label. For some models, an additional label is located on the chassis under the front bezel.
- Always recycle used batteries. For information on recycling batteries, go to [apc.com/recycle](http://apc.com/recycle).
- Recycle the package materials or save them for reuse.

## FCC Class A radio frequency warning

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are intended to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

# Package Contents

Inspect the contents upon receipt. Notify the carrier and dealer if the unit is damaged.

<b>UPS</b> 		<b>PCBE Insert</b> 	<b>Rackmount brackets</b> 	
<b>Bezel</b> 	<b>USB Cable</b> 	<b>Ethernet Cable</b> 		
<b>Rail kit</b> 		<b>Washer (10x)</b> 	<b>Flat head screw (4x)</b> 	
		<b>Flat head screw (10x)</b> 	<b>Ornamental screw (4x)</b> 	

# Specifications

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

## Environmental specifications

<b>Temperature</b>	<b>Operating</b>	0 to 40 °C (32 to 104 °F)
	<b>Storage</b>	-40 to 35 °C (-40 to 95 °F)
	<b>Transporting</b>	-40 to 80° C (-40 to 176° F)
<b>Maximum Elevation</b>	<b>Operating</b>	10,000 ft (3,048 m)
	<b>Storage</b>	25,000 ft (7,620 m)
	<b>Transporting</b>	50,000 ft (15,240 m)
<b>Shelf Life</b>	<b>Storage</b>	Limited by battery state of charge. If initial state of charge is 100%, batteries must be recharged when storage time exceeds 12 months.
	<b>Transporting</b>	2 weeks maximum
<b>Humidity</b>	0% to 95% relative humidity, non-condensing	
<b>International Protection Code</b>		IP20

## Physical

The UPS is heavy. Follow all lifting guidelines.

	<b>SMTL2200RM2UC/ SMTL2200RM2UCNC</b>	<b>SMTL3000RM2UC/ SMTL3000RM2UCNC</b>
<b>Unit weight batteries included, without packaging</b>	70.26 lb (31.90 kg)	75.38 lb (34.22 kg)
<b>Unit weight batteries included, with packaging</b>	86.45 lb (39.25 kg)	94.05 lb (42.7 kg)
<b>Unit dimensions without packaging Height x Width x Depth</b>	3.39x17.01x26.89 in (86.1x432x683 mm)	
<b>Unit dimensions with packaging Height x Width x Depth</b>	10 x 23.62 x 38.6 in (254 x 600 x 980 mm)	
<b>The model and serial numbers are on a small label located on the rear panel.</b>		

## Battery

<b>Battery type</b>	Li-ion
<b>Replacement battery module</b> This UPS has swappable battery modules. Refer to the appropriate replacement battery user manual for installation instructions. Contact your dealer or go the APC by Schneider Electric web site, <a href="http://www.apc.com">www.apc.com</a> for information on replacement batteries.	APCRBC174-LI
<b>Number of battery modules</b>	1 battery module
<b>Voltage for each battery module</b>	48 VDC
<b>Ah rating</b>	9 Ah per battery module

## Electrical

### CAUTION

#### RISK OF FIRE, ELECTRIC SHOCK

Connect the UPS models only to a circuit provided with recommended maximum branch circuit overcurrent protection in accordance with the National Electrical Code, ANSI/NFPA 70 and the Canadian Electrical Code, Part I, C22.1.

**Failure to follow these instructions can result in fire, and minor or moderate injury.**

Models	Rating	Branch Circuit Overcurrent / Building Circuit Breaker (CB) Current Rating
SMTL2200RM2UC/SMTL2200RM2UCNC	1920 VA / 1920 W	20 A
SMTL3000RM2UC/SMTL3000RM2UCNC	2880 VA / 2700 W	30 A

## Output

### SMTL2200RM2UC/SMTL2200RM2UCNC

<b>Frequency</b>	50/60 Hz					
<b>Connector type</b>	NEMA 5-20P or L5-20P			NEMA 5-30P or L5-30P		
<b>Nominal Voltage</b>	110 VAC	120 VAC	125 VAC	110 VAC	120 VAC	125 VAC
<b>Current</b>	16 A		15.36 A	20 A	18.34 A	17.60A
<b>Power</b>	1760 VA / 1760 W		1920 VA / 1920 W	2200 VA / 1980 W		

### SMTL3000RM2UC/SMTL3000RM2UCNC

<b>Frequency</b>	50/60 Hz					
<b>Connector type</b>	NEMA 5-30P or L5-30P			NEMA 5-50P or L5-50P		
<b>Nominal Voltage</b>	110 VAC	120 VAC	125 VAC	110 VAC	120 VAC	125 VAC
<b>Current</b>	24 A		23.04 A	27.28 A	25 A	24 A
<b>Power</b>	2640 VA / 2640 W		2880 VA / 2700 W	3000 VA / 2700 W		

## Input

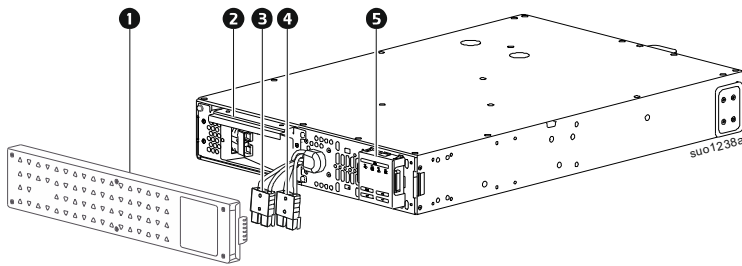
### SMTL2200RM2UC/SMTL2200RM2UCNC

<b>Frequency</b>	50/60 Hz					
<b>Connector type</b>	NEMA 5-20P or L5-20P			NEMA 5-30P or L5-30P		
<b>Nominal Voltage</b>	110 VAC	120 VAC	125 VAC	110 VAC	120 VAC	125 VAC
<b>Current</b>	16 A			20 A		

### SMTL3000RM2UC/SMTL3000RM2UCNC

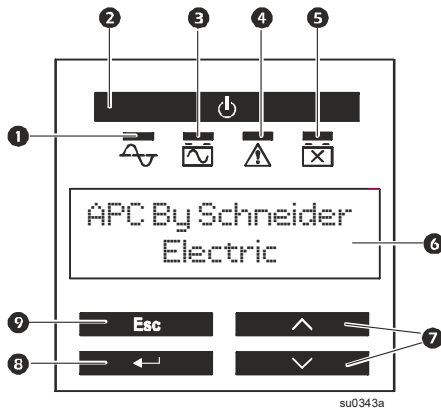
<b>Frequency</b>	50/60 Hz					
<b>Connector type</b>	NEMA 5-30P or L5-30P			NEMA 5-50P or L5-50P		
<b>Nominal Voltage</b>	110 VAC	120 VAC	125 VAC	110 VAC	120 VAC	125 VAC
<b>Current</b>	24 A			28 A		

# Product front view



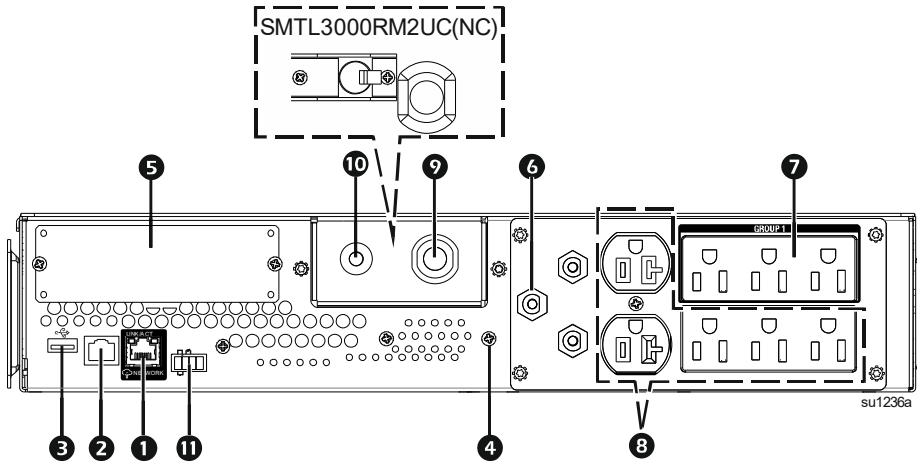
1	Bezel
2	Battery
3	Internal battery connector - Black color
4	Internal battery connector - Red color
5	Front Panel Display

# Front panel display features



1	Online LED
2	UPS ON/OFF button
3	On Battery LED
4	Error Detected LED
5	Replace Battery LED
6	Multi-lingual display screen
7	UP/DOWN button
8	ENTER button
9	ESCAPE button

# Rear panel features



1	APC™ SmartConnect port	7	Controlled outlet group
2	Serial port	8	Outlets
3	USB port	9	UPS input
4	Chassis ground connection screw	10	Input circuit breaker
5	Smart Slot for APC management cards	11	EPO connector
6	Output circuit breaker		



# Installation

## Placement

Do not place the UPS where there is excessive dust, temperature and humidity. Note that temperature in excess of 25 °C may have an adverse effect on battery and UPS life. All vents on the side or rear of the UPS should be free of obstructions.

The UPS is heavy. It is suggested that the batteries be removed for easier installation. The UPS should be placed near the bottom of the rack.

## Rack-mounting

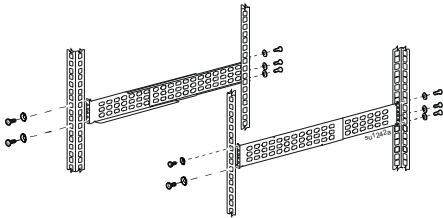
### CAUTION

#### RISK OF FALLING EQUIPMENT

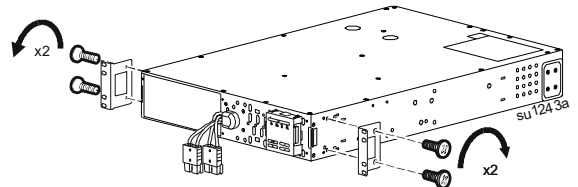
- The equipment is heavy.
- Always practice safe lifting techniques adequate for the weight of the equipment.
- Use the battery module handle to slide the battery modules in or out of the UPS.
- Do not use the battery module handle to lift or carry the battery module.

**Failure to follow these instructions could result in equipment damage and minor or moderate injury.**

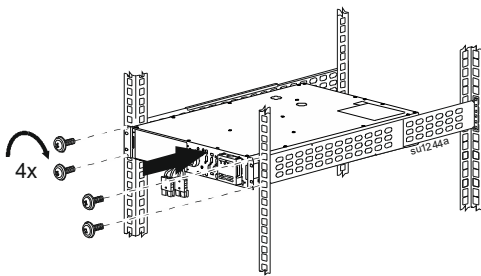
- 1** Install the rail-kit on the rack, using flat head screws (10x) and washers (10x) (supplied).



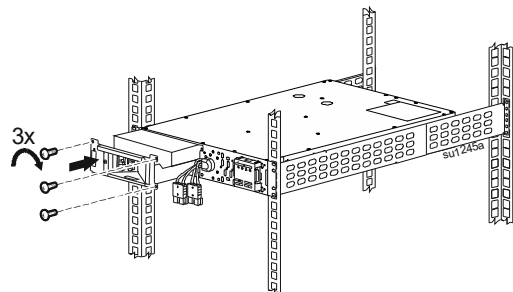
- 2** Install the rack-mount brackets on the UPS, using the flat head screws (4x) (supplied).



- 3** Install the UPS on the rack, using the ornamental screws (4x) (supplied)



- 4** Install the battery module in the UPS. Tighten the 3 screws to secure the battery to the UPS.



**5** Connect the black color internal battery connector to the black color receptacle in the battery module. Be sure that the connection is secure.

**6** Connect the red color internal battery connector to the red color receptacle in the battery module. Be sure that the connection is secure.

**NOTE:** Pull the strap provided on the connectors for disconnecting the battery. **Do not** pull the wires.

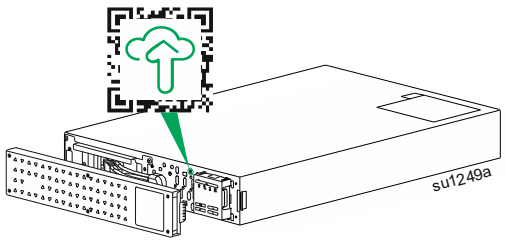
**7** Install the bezel.

## EcoStruxure™ Ready Smart-UPS Web Portal

The Web Portal allows you to remotely view the status of your UPS, receive automatic notifications about UPS events, and firmware updates. Visit [smartconnect.apc.com](http://smartconnect.apc.com) to learn more.

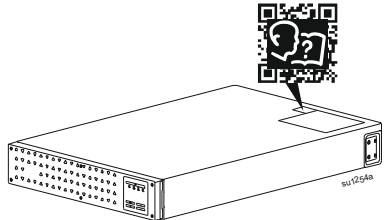
Log onto [smartconnect.apc.com](http://smartconnect.apc.com) or scan the QR code to begin the registration process. For instructions on how to register your SmartConnect-compatible UPS, visit [smartconnect-support.apc.com](http://smartconnect-support.apc.com).

By connecting this product to the Internet using the APC™ SmartConnect Ethernet port, you are agreeing to the APC™ SmartConnect Terms of Use and Data Privacy Notice, as found at [smartconnect.apc.com/terms-and-privacy](http://smartconnect.apc.com/terms-and-privacy). The Schneider Electric Data Privacy Policy can also be found at [smartconnect.apc.com/terms-and-privacy](http://smartconnect.apc.com/terms-and-privacy).



## Location of product information QR code

Location of product information QR Code is shown in the illustration below. Scan the QR code for more information of the product.



# Connect to equipment and utilities

- Connect the UPS to the AC Mains outlet for 2 hours, for charging the battery, before turning it ON for the first time.
- Upon receipt, connect the UPS to the AC Mains outlet for 2 hours to charge the battery.


**Note:** The recommended shelf time of battery is not more than 12 months.



## CAUTION




### RISK OF DAMAGE TO EQUIPMENT OR PERSONNEL

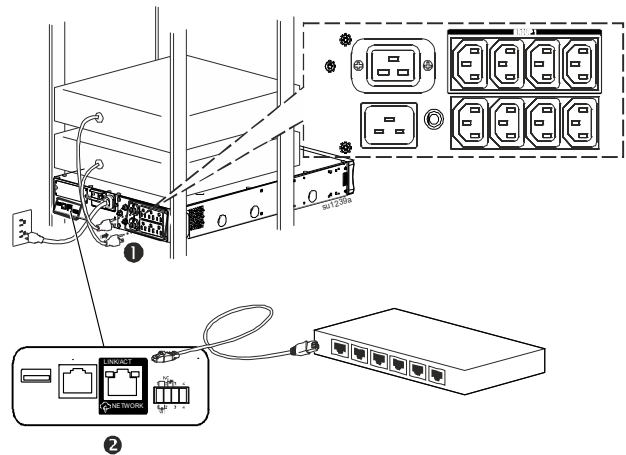
- Adhere to all local and national electrical codes.
- Wiring should be performed by qualified electrician.
- Always connect the UPS to a grounded outlet.

### Failure to follow these instructions can result in injury.

1. Connect equipment to the outlets in the rear of the UPS. Some models are equipped with controlled outlet groups. Refer to the “Configuration” section of this manual for further instructions on the use of controlled outlet groups.
2. Connect the APC™ SmartConnect port  to your nearest network switch using the cable provided.

3. Connect the UPS input to AC power.  
**Note:** Once power is connected the display will be active.
4. Press the main power button  on the UPS display to turn on the UPS output.  
**Note:** The On-line LED  will light green when the output is on.




5. When the UPS is powered on for the first time the LCD screen displays the Setup Wizard and asks a number of basic set-up questions. They can be answered simply by using the arrow   and enter  keys on the display.
6. Log onto [www.smartconnect.apc.com](http://www.smartconnect.apc.com) or scan the QR code to launch the registration process. The website includes instructions to setup your online account, activate your warranty and begin managing your UPS remotely.



# Start up Settings

When the UPS is powered on for the first time the display interface displays the Setup Wizard to configure the start up settings. Configuration can also be performed using PowerChute™ software.

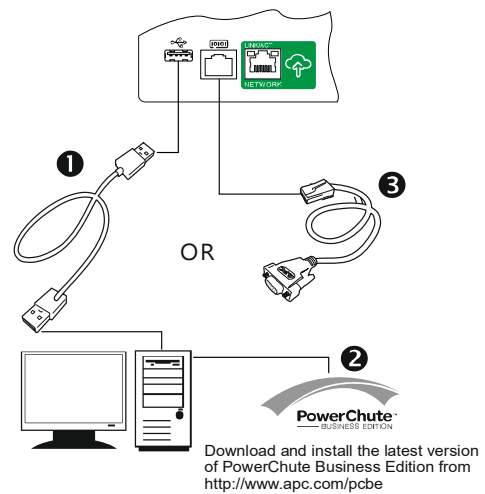
**Note:** If the start up settings asked by the Setup Wizard are not selected completely, turning on UPS output is inhibited. The setup wizard will disappear from the display if the start up settings remain idle for 2 minutes. Pressing the UPS ON/OFF button on the front panel display will relaunch the setup wizard and allow completion of the start up settings.

Function	Factory Default	Options	Description
Language	English	English French* German* Spanish* Italian* Portuguese* Japanese*	The language for the display interface.  *Language options will vary by model.
Local Power Quality	Good	Good Fair Poor	Select the quality of input AC 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.
Menu Type	Standard	Standard Advanced	The standard menu displays the most commonly required menus for most users. The advanced menus include all parameters.
Today's Date	Manufacture date		Use the   arrows to enter today's day, and the  to complete the settings.

## Connect and Install Management Software

Smart-UPS is provided with PowerChute management software for unattended and graceful shutdown of the operating system in the event of an extended power outage, UPS monitoring, UPS control and energy reporting. The following diagram is a representation of a typical server installation.

1. Connect the USB cable from the rear of the UPS to the protected device such as a server.
2. To download PowerChute Business Edition software, connect the UPS to the server by either of the above two methods and log on to <https://www.apc.com/pcbe>. Follow the onscreen instructions.
3. A built-in serial port is also available for additional communication options with an optional serial cable. For more detailed information on supported protocols and options refer to application note #181 at [www.apc.com](http://www.apc.com).
4. Even more communication options are available via the built-in Smartslot. Refer to [www.apc.com](http://www.apc.com) for more information.











# Operation

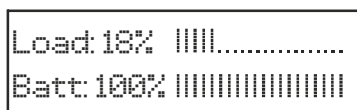
## Using the display

These Smart-UPS models are equipped with an intuitive and configurable LCD display. This display complements the software interface as they convey similar information and either may be used to configure the UPS settings.

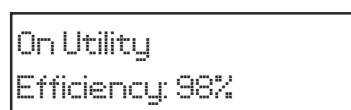
The display consists of the following keys and indicators:

<b>Main on/off</b> 	This button is used to turn the UPS output power on and off.
<b>Quick status LEDs</b>	
	The online indicator illuminates <b>green</b> when UPS output is turned on and operating on AC power.
	The on-battery battery indicator illuminates <b>orange</b> and the unit will continue to emit a series of short beeps indicating that the UPS is operating on battery power.
	The error detected LED will illuminate <b>red</b> if the unit detects an error condition. The display screen may also indicate an error message or code.
	The replace battery indicator illuminates <b>red</b> when the UPS battery does not pass self test and requires replacement.
<b>Escape</b> 	The escape key always returns the display to the previous screen. It is used to exit the various display menus.
<b>Return</b> 	The return key is used to confirm a selection and/or enter a menu.
<b>Up/down selection arrows</b> 	The arrows are used to navigate through each menu selection.

The display has two main display/menu options – standard and advanced.



Standard Menu Display



Advanced Menu Display

**Note:** The standard menu is the default setting and does not contain all of the menus and attributes of the advanced menu. The advanced menu automatically scrolls through multiple screens.

## Standard menus

The Standard menus are the most commonly used menus. The following is a list of some items displayed in this menu mode. Visit [apc.com](http://apc.com) for additional details.

Menu	General Functions
<b>Status</b>	View UPS information: <ul style="list-style-type: none"> <li>• Operating Mode</li> <li>• Efficiency</li> <li>• Load Power</li> <li>• Load VA</li> <li>• Battery Charge state</li> <li>• Estimated Runtime</li> <li>• Battery Temp</li> <li>• Input</li> <li>• Output</li> <li>• SmartConnect</li> <li>• Probe 1, Probe 2, when NMC and sensor probes are installed</li> </ul>
<b>Configuration</b>	Configures UPS settings: <ul style="list-style-type: none"> <li>• Language</li> <li>• Green Mode</li> <li>• Local Power Quality: Good, Fair, Poor</li> <li>• Menu Type: Standard or Advanced</li> <li>• Audible Alarm</li> <li>• Display (Auto Dim, Auto Off, Always On)</li> <li>• Reset to Factory Default</li> <li>• SmartConnect Control</li> <li>• Install FW?</li> </ul> <p><b>Note:</b> Enabled only if a firmware update is available.</p>

Menu	General Functions
<b>Test &amp; Diags</b>	Performs UPS tests and diagnostic functions: <ul style="list-style-type: none"> <li>• UPS Self Test</li> <li>• UPS Alarms Test</li> </ul>
<b>About</b>	View UPS information: <ul style="list-style-type: none"> <li>• UPS Model</li> <li>• UPS Part No.</li> <li>• UPS Serial No.</li> <li>• UPS Manufacture Date</li> <li>• Battery Part No.</li> <li>• Battery Install Date</li> <li>• Replace Battery by</li> </ul> <ul style="list-style-type: none"> <li>• Running UPS FW</li> <li>• Available UPS FW <b>Note:</b> Enabled only if a UPS firmware update is available.</li> <li>• UPS MAC</li> <li>• UPS IP Address</li> <li>• UPS Product Key</li> <li>• SmartSlot Card (if installed)</li> </ul>

## 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
<b>Status</b>	View detailed UPS information: <ul style="list-style-type: none"> <li>• Operating Mode</li> <li>• Efficiency</li> <li>• Load Power</li> <li>• Load VA</li> <li>• Load Amps</li> <li>• Load Energy</li> <li>• Battery Charge State</li> <li>• Estimated Runtime</li> <li>• Battery Voltage</li> <li>• Battery Temp</li> <li>• Input</li> <li>• Output</li> <li>• Outlet Groups</li> <li>• SmartConnect</li> <li>• Probe 1, Probe 2, when NMC and sensor probes are installed</li> </ul>
<b>Control</b>	Controls the Main and Controlled Outlet Group to turn on, turn off, shutdown, or reboot: <ul style="list-style-type: none"> <li>• UPS Control</li> <li>• Outlet Group Control</li> </ul>
<b>Configuration</b>	Configure advanced UPS settings: <ul style="list-style-type: none"> <li>• Language</li> <li>• Output Voltage <b>Note:</b> Setting can be configured only when UPS output is turned off.</li> <li>• Green Mode</li> <li>• Local Power Quality</li> <li>• Menu Type</li> <li>• Audible Alarm</li> <li>• Display</li> <li>• Sensitivity</li> <li>• Low Transfer</li> <li>• High Transfer</li> <li>• Low Battery Setting</li> <li>• Auto Self Test</li> <li>• Reset Energy Meter</li> <li>• Enter Setup Wizard</li> <li>• Reset to Factory Defaults</li> <li>• Site Wiring Fault</li> <li>• Config Main Group Outlets</li> <li>• Config Group Outlets (if Controlled Outlet is available)</li> <li>• ModBus Settings</li> <li>• SmartConnect Control</li> <li>• UPS IP Address Setting</li> <li>• NMC IP Address Settings (if NMC is available)</li> <li>• Install FW? (only available if a firmware update is available)</li> </ul>
<b>Test &amp; Diag</b>	Perform UPS tests and diagnostics functions: <ul style="list-style-type: none"> <li>• UPS Self Test</li> <li>• UPS Alarms Test</li> </ul>
<b>Logs</b>	View the error log for information about UPS errors that have occurred.
<b>About</b>	View UPS information: <ul style="list-style-type: none"> <li>• UPS Model</li> <li>• UPS Part No.</li> <li>• UPS Serial No.</li> <li>• UPS Manufacture Date</li> <li>• Battery Part No.</li> <li>• Battery Install Date</li> <li>• Replace Battery by</li> <li>• Running UPS FW</li> <li>• Available UPS FW <b>Note:</b> Enabled only if a UPS firmware update is available.</li> <li>• UPS MAC</li> <li>• UPS IP Address</li> <li>• UPS Product Key</li> <li>• SmartSlot Card (if installed)</li> </ul>

# Configuration

## General configuration settings

Configuration settings may be changed at any time using the LCD interface or PowerChute software. This table provides a brief description of the general settings, for more detailed information on each of these parameters consult application note 80 at [www.apc.com](http://www.apc.com).

Setting	Factory Default	Options	Description
<b>High Transfer</b>	127 Vac	127 Vac - 136 Vac	To avoid unnecessary battery usage, set the transfer point higher if the AC 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.
<b>Low Transfer</b>	106 Vac	97 Vac - 106 Vac	Sets the transfer point lower if the AC voltage is chronically low and the connected equipment can tolerate this condition. This setting may also be adjusted using the power quality setting. <b>Note:</b> Use the Advanced Menus to configure this setting.
<b>Sensitivity</b>	Normal	<ul style="list-style-type: none"> <li>• Normal</li> <li>• Reduced</li> <li>• Low</li> </ul>	Selects 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>• 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.
<b>Date of Last Battery Replacement</b>	Date set at factory. Reset this date when the battery module is replaced.		
<b>Display</b>	Auto Off	<ul style="list-style-type: none"> <li>• Auto Off</li> <li>• Auto Dim</li> <li>• Always On</li> </ul>	The UPS can be configured to change the LCD brightness when the interface has not been used for 4 minutes. <ul style="list-style-type: none"> <li>• Auto Off: The LCD turns off. This is used as the default to extend LCD lifetime.</li> <li>• Auto Dim: The LCD switches to a lower brightness.</li> <li>• Always On: The LCD is always at the lower brightness and does not change due to inactivity.</li> </ul>
<b>Audible Alarm</b>	On	<ul style="list-style-type: none"> <li>• On</li> <li>• Off</li> </ul>	The UPS will mute all audible alarms if this is set to <b>Off</b> or when the display buttons are pressed.
<b>Auto Self Test</b>	On start-up and every 14 days since the last test	<ul style="list-style-type: none"> <li>• Never</li> <li>• Start-up only</li> <li>• Frequency of test (every 7 to 14 days)</li> </ul>	The interval at which the UPS will execute a self-test.
<b>Reset to Factory Default</b>	No	Yes/No	Restores the UPS factory default settings.
<b>Site Wiring Fault</b>	Enable	Enable/Disable/Can Ack	Sets the Site Wiring Fault detection to Enable, Disable or User Can Acknowledge

Setting	Factory Default	Options	Description
<b>Output voltage</b>	120 V	<ul style="list-style-type: none"> <li>• 120Vac</li> <li>• 110Vac</li> <li>• 125Vac</li> </ul>	<p>Selects the output voltage. This is only settable when the UPS is turned off.</p> <p>Select the output voltage appropriate to the location.</p>
<b>Green Mode</b>	Enable	<ul style="list-style-type: none"> <li>• Enable</li> <li>• Disable</li> </ul>	This will enable or disable Green mode function. Green Mode conserves energy while the UPS is operating on line.
<b>SmartConnect Control</b>	Enable	<ul style="list-style-type: none"> <li>• Enable</li> <li>• Disable</li> </ul>	This will permit remote configuration changes.
<b>Low Battery Setting</b>	150 sec	Set the value in seconds	The UPS will emit an audible alarm when the remaining runtime has reached this level.
<b>Install FW?</b>	Don't Install	<ul style="list-style-type: none"> <li>• Next off (Updates the UPS Firmware next time that the UPS is turned off)</li> <li>• Now (Updates the UPS firmware immediately without interrupting operations)</li> <li>• Don't Install</li> </ul>	Firmware update: this only appears when new firmware is available in the flash memory of the UPS and is ready to be installed

## Outlet group configuration settings

The Main Outlet Group and the Controlled Outlet Group can be configured to independently turn off, turn on, shut down, and reboot connected equipment.

The Main and Controlled Outlet Groups can be configured 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 AC power becomes available.
- Reboot: Shut down and restart.

In addition, the Main Outlet Group and the Controlled Outlet Group 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:** If the Main and Controlled Outlet Groups are not configured, all of the outlets on the unit will still provide battery back-up power.

**Note:** The Main Outlet Group functions as a master switch. It will turn on first when power is applied, and shut off last when there is a power outage and battery run-time has been exhausted.

The Main Outlet Group must be turned on for the Controlled Outlet Group to turn on.

Setting	Factory Default	Options	Description
<b>Name String</b>	Outlet Group 1		Edit these names using an external interface, such as the Network Management Card Web interface.
<b>Outlet Group</b>			
<b>UPS Name String</b>	UPS Outlets		
<b>Turn On Delay</b>	0 sec	Set the value in seconds	The amount of time the UPS or the Controlled Outlet Group will wait between receiving the command to turn on and the actual startup.
<b>Turn Off Delay</b>	<ul style="list-style-type: none"> <li>• 0 sec (UPS Outlets)</li> <li>• 90 sec (Controlled Outlet Groups)</li> </ul>	Set the value in seconds	The amount of time the UPS or the Controlled Outlet Group will wait between receiving the command to turn off and the actual shut down.



Setting	Factory Default	Options	Description
<b>Reboot Duration</b>	8 sec	Set the value in seconds	The amount of time that the UPS or the Controlled Outlet Group 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 UPS or the Controlled Outlet Group will turn on.
<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 Controlled Outlet Group to save runtime.</p> <p>To 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>	<p>When the battery runtime falls below the specified value, the Controlled Outlet Group will turn off.</p> <p>Configure this time using the LOAD SHED RUNTIME REMAINING setting.</p>
<b>Load Shed On Runtime Remaining</b>	Disabled	Set the value in seconds	When the remaining runtime reaches this level, the Controlled Outlet Group 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 100% output power), the Controlled Outlet Group will immediately turn off to conserve power for critical loads. The Controlled Outlet Group will only turn on again with a manual command.

## Modbus settings

Setting	Factory Default	Options	Description
<b>Slave ID</b>	1	1- 223	Sets the Modbus slave address of UPS
<b>Ser+USB</b>	Disable	<ul style="list-style-type: none"> <li>• Enable</li> <li>• Disable</li> </ul>	Enables or disables UPS Modbus protocol over serial and USB ports
<b>TCP Settings</b> • TCP Protocols	Disable	<ul style="list-style-type: none"> <li>• Disable</li> <li>• Read-Only</li> <li>• Read-Write</li> </ul>	<p>Enables or disables UPS Modbus TCP/IP protocol provided by the embedded SmartConnect port.</p> <ul style="list-style-type: none"> <li>• <b>Disable:</b> Disables UPS Modbus TCP/IP protocol</li> <li>• <b>Read-Only:</b> Modbus master over TCP/IP protocol is only allowed to get UPS status.</li> <li>• <b>Read-Write:</b> Modbus master over TCP/IP protocol is allowed to get UPS status and control the UPS.</li> </ul> <p>The port number of UPS Modbus TCP/IP protocol is fixed at 502.</p>
• Master IP Addr	000.000.000.000	A valid IPv4 address	<p>Specifies the IPv4 address of the Modbus master that will allow connection to the UPS via Modbus TCP/IP protocol</p> <p>The <i>Master IP Addr</i> when set as 000.000.000.000 will allow connection of external Modbus master with any IP address. When not set as 000.000.000.000, only the Modbus master with the specified IP address is allowed to connect to the UPS.</p> <p>Example: <i>Master IP Address</i> is set to 192.168.0.10, only Modbus master with IP address 192.168.0.10 could connect to the UPS.</p>

## UPS IP Address settings

Setting	Factory Default	Options	Description
<b>UPS IP Address Mode</b>	DHCP	<ul style="list-style-type: none"> <li>• DHCP</li> <li>• Manual</li> </ul>	<p>Selects the IP address configuration mode of UPS embedded SmartConnect port:</p> <ul style="list-style-type: none"> <li>• <b>DHCP:</b> UPS will automatically configure its IPv4 address via DHCP protocol.</li> <li>• <b>Manual:</b> Manually assigns a static IPv4 address to UPS</li> </ul>
<b>IP Address</b>	000.000.000.000	A valid IPv4 address	<p>This is the IPv4 address assigned to the embedded SmartConnect port.</p> <p>When <b>DHCP</b> IP address mode is selected, it will display the UPS IPv4 address assigned by DHCP server.</p> <p>When <b>Manual</b> IP address mode is selected, you need to manually specify a static IPv4 address.</p>
<b>Subnet Mask</b>	000.000.000.000	A valid IPv4 subnet mask	<p>Assigns the subnet mask of the network where UPS IPv4 address belongs.</p> <p>When <b>DHCP</b> IP address mode is selected, it will display the subnet mask assigned by DHCP server.</p> <p>When <b>Manual</b> IP address mode is selected, you need to manually specify the subnet mask of the network where the specified static IPv4 address belongs.</p>
<b>Default Gateway</b>	000.000.000.000	A valid IPv4 address	<p>This is the IPv4 address of the host from where the UPS sends data to another network or Internet.</p> <p>When <b>DHCP</b> IP address mode is selected, it will display the default gateway assigned by DHCP server.</p> <p>When <b>Manual</b> IP address mode is selected, you need to manually specify the IPv4 address of default gateway.</p>
<b>DNS Server 1</b>	000.000.000.000	A valid IPv4 address	<p>The IPv4 address of first domain name server (DNS) the UPS uses to resolve host names to IPv4 addresses.</p> <p>When <b>DHCP</b> IP address mode is selected, it will display the IPv4 address of the first DNS server assigned by DHCP server.</p> <p>When <b>Manual</b> IP address mode is selected, you need to manually specify the IPv4 address of the first DNS server.</p>
<b>DNS Server 2</b>	000.000.000.000	A valid IPv4 address	<p>The IPv4 address of second domain name server (DNS) the UPS uses to resolve host names to IPv4 addresses (<i>only when UPS fails to resolve IP address through first domain name server</i>).</p> <p>This setting is optional.</p> <p>When <b>DHCP</b> IP address mode is selected, it will display the IPv4 address of the second DNS server assigned by DHCP server.</p> <p>When <b>Manual</b> IP address mode is selected, you can manually specify the IPv4 address of the second DNS server or leave it as 000.000.000.000.</p>

# Emergency Power Off

## Overview

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.

Connect each UPS to the EPO switch. In configurations where multiple units are connected in parallel, each UPS must be connected to the EPO switch.

The UPS must be restarted for power to return to connected equipment. Press the ON/OFF button on the front panel of the UPS.

### CAUTION

#### RISK OF ELECTRIC SHOCK

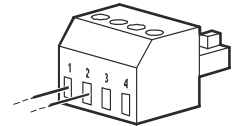
- Adhere to all local and national electrical codes.
- Wiring should be performed by a qualified electrician.
- Always connect the UPS to a grounded outlet.

**Failure to follow these instructions can result in minor or moderate injury.**

## 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.

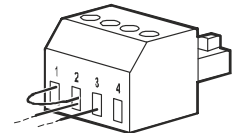
**Note:** Pin 1 is the power source for the EPO circuit, it provides a few milliAmps of 24 V power.

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

Problem and Possible Cause	Solution
<b>The UPS will not turn on or there is no output.</b>	
The unit has not been turned on.	Press the UPS ON/OFF key once to turn on the UPS.
The UPS is not connected to AC power.	Be sure the power cable is securely connected to the unit and to the AC power supply.
The input circuit breaker has tripped.	Reduce the load on the UPS. Disconnect nonessential equipment and reset the circuit breaker.
The unit shows very low or no input AC voltage.	Check the AC power supply to the UPS by plugging in a table lamp. If the light is very dim, check the AC voltage.
The battery connector plug is not securely connected.	Be sure that all battery connections are secure.
There is an internal UPS error detected.	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 input AC power.</b>	
The input circuit breaker has tripped.	Reduce the load on the UPS. Disconnect nonessential equipment and reset the circuit breaker.
There is very high, very low, or distorted input line voltage.	Move the UPS to a different outlet on a different circuit. Test the input voltage with the AC voltage display. If acceptable to the connected equipment, reduce the UPS sensitivity.
<b>UPS is emitting intermittent beeps.</b>	
The UPS is operating normally.	None. The UPS is helping protect the connected equipment.
<b>UPS does not provide expected backup time.</b>	
The UPS battery is weak due to a recent power 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 has not illuminated.
The UPS is experiencing an overload condition.	Check the UPS load display. Unplug unnecessary equipment, such as printers.
<b>Display interface LEDs flash sequentially.</b>	
The UPS has been shut down remotely through software or an optional accessory card.	None. The UPS will restart automatically when AC power is restored.
<b>The Error LED is illuminated. The UPS displays an error message and emits a constant beeping sound.</b>	
Internal UPS error detected.	Do not attempt to use the UPS. Turn the UPS off and have it serviced immediately.
<b>The Replace Battery icon is illuminated and the UPS beeps for one minute every five hours.</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.
<b>The Replace Battery icon is flashing and the UPS beeps for once every 2 seconds.</b>	
The replacement battery is not properly connected.	Be sure that the battery connector is securely connected.
<b>The UPS displays a site wiring error message.</b>	
Site wiring errors detected include missing ground, line-neutral polarity reversal, and overloaded neutral circuit.	If the UPS indicates a site wiring error, have a qualified electrician inspect the building wiring.

# Limited Factory Warranty

Schneider Electric IT Corporation (SEIT), warrants its products to be free from defects in materials and workmanship for a period of three (3) years excluding the batteries, which are warranted for 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](http://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](http://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.

# Transport the Unit

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 Customer Support through the APC 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 interface on select models.
  - b. Call APC 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, it will be repaired or replaced at no cost.
  - d. Service procedures and returns may vary internationally. Refer to the APC web site for country specific instructions.
3. Shipment of Lithium Ion Battery is highly regulated and the regulation is evolving. Pack the battery and UPS separately.
4. Always contact APC by Schneider Electric Customer Support to get the latest guidance on shipment of Lithium ion battery and UPS.
5. Pack the unit properly to avoid damage in transit. Damage sustained in transit is not covered under warranty.
6. Write the RMA# provided by Customer Support on the outside of the package.
7. Return the unit by insured, prepaid carrier to the address provided by Customer Support.



# 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 APC by Schneider Electric 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 distributor from whom you purchased your APC by Schneider Electric product.



Select models are ENERGY STAR® qualified.

For more information on your specific model visit the APC by Schneider Electric web site, [www.apc.com](http://www.apc.com).

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