

APC SRTL3000RMXLI SMART-UPS™ ON-LINE SRT



APC SRTL3000RMXLI On-Line SRT Smart-UPS Operation Manual

[Home](#) » [Support](#) » APC SRTL3000RMXLI On-Line SRT Smart-UPS Operation Manual 

Contents

- 1 APC SRTL3000RMXLI On-Line SRT Smart-UPS
- 2 General Information
 - 2.1 Battery Safety
- 3 Product Description
- 4 Product Overview
 - 4.1 Specifications
 - 4.2 Environmental
 - 4.3 Physical
 - 4.4 Battery
 - 4.5 Electrical
- 5 Front Panel Features
- 6 Operation
 - 6.1 Connect Equipment
 - 6.2 UPS Display Interface
- 7 UPS Menu Overview
- 8 Configuration
 - 8.1 UPS Settings
- 9 Controllable Outlet Groups
- 10 Emergency Power Off
- 11 Network Management Interface
 - 11.1 Introduction
 - 11.2 IP Address Configuration
 - 11.3 Related Documents
- 12 Smart Battery Management
 - 12.1 Maintenance
 - 12.2 End of useful life
- 13 Troubleshooting
- 14 Transport
- 15 Service
- 16 Limited Factory Warranty
- 17 APC by Schneider Electric
- 18 Frequently Asked Questions
- 19 References
- 20 Related Posts



APC SRTL3000RMXLI On-Line SRT Smart-UPS



Smart-UPS™ On-Line SRT Uninterruptible Power Supply

- SRT2200UXI-LI SRT2200UXI-NCLI SRT3000UXI-LI SRT3000UXI-NCLI
- 220V/230V/240V Tower/Rack-Mount 2U
- For Professional Business Applications – Not For Consumer Use

General Information







Important Safety Messages

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

Read these instructions carefully and look at the equipment to become familiar with the device before trying to install, operate, service, or maintain it. The following special messages may appear throughout this bulletin or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure.

- **DANGER** indicates a hazardous situation that, if not avoided, will result in death or serious injury.
- **WARNING** indicates a hazardous situation which, if not avoided, could result in death or serious injury.
- **CAUTION** indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.
- **NOTICE** is used to address practices not related to physical injury.

Product Handling Guidelines

 <18 kg <40 lb	 18-32 kg 40-70 lb	 32-55 kg 70-120 lb	 >55 kg >120 lb		
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Safety and General Information

- 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 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.
- The equipment is heavy. Always practice safe lifting techniques adequate for the weight of the equipment.
- 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.
- Replace the battery immediately when the UPS indicates battery replacement is necessary.
- 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.
- Additional safety information can be found in the Safety Guide supplied with this unit.

Deenergizing safety

Battery packs connected to the UPS may present a shock hazard even when disconnected from the branch circuit (mains). Before installing or servicing the equipment verify the following.

- A main circuit breaker is in the OFF position. The UPS is disconnected from the main or wall outlet.
- Battery packs are disconnected.

Electrical safety

- For models with a hardwired input, the connection to the branch circuit (mains) must be performed by a qualified electrician.
- To maintain compliance with the EMC directive for products sold in Europe, output cords and network cables 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 and with or without a yellow stripe.
- The UPS input ground conductor must be properly bonded to the 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.

Battery Safety

WARNING

RISK OF CHEMICAL HAZARD AND EXCESSIVE SMOKE

- 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 type of batteries as originally installed in the equipment.

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

- Servicing of batteries should be performed or supervised by personnel knowledgeable about batteries and the required precautions. Keep unauthorized personnel away from batteries.
- Schneider Electric uses Lithium-ion batteries. Under normal use and handling, there is no contact with the internal components of the battery.
- The battery typically lasts for eight to ten years. Environmental factors impact battery life. Elevated ambient temperatures and poor quality mains power causing frequent short-duration discharges will shorten battery life.
- CAUTION: Before installing or replacing the batteries, remove conductive jewelry such as chains, wristwatches, and rings. High energy through conductive materials could cause severe burns.
- CAUTION: Do not place or use the battery pack near heat or fire.
- Do not crush, and do not dispose of a battery pack in a fire. The batteries may explode.
- CAUTION: Do not open the battery pack 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: A battery can present a risk of electric shock and burns by high short-circuit current. The following precautions should be observed when working on batteries:
 - Disconnect the charging source before connecting or disconnecting battery terminals.
 - Do not wear any metal objects including watches and rings.
 - Do not lay tools or metal parts on top of batteries.
 - Use tools with insulated handles.
 - Wear rubber gloves and boots.
 - Determine if the battery is either intentionally or inadvertently grounded. Contact with any part of a grounded battery can result in electric shock and burns by high short-circuit current. The risk of such hazards can be reduced if grounds are removed during installation and maintenance by a skilled person.
- CAUTION: Failed batteries can reach temperatures that exceed the burn thresholds for touchable surfaces.
- Do not use a dropped, damaged, or deformed battery pack.
- Do not short-circuit the battery pack.
- Do not drive nails into the battery pack.
- Do not strike the battery pack with a hammer.

General information

- Refer to “Specifications” on page 5 for information on the maximum number of battery packs supported by your UPS model.
 - **Note:** For each battery pack added, increased recharge time will be required.
- The model and serial numbers are located on a small, rear panel label. For some models, an additional label is located on the chassis under the front bezel.
- Always recycle used batteries.
- Recycle the package materials or save them for reuse.

Product Description

The APC by Schneider Electric Smart-UPS™ On-Line SRT is a high-performance uninterruptible power supply (UPS). The UPS helps to protect electronic equipment from utility power blackouts, brownouts, sags, surges,

small utility power fluctuations, and large disturbances. The UPS also provides battery backup power for connected equipment until utility power returns to acceptable levels or the batteries are completely discharged.

This user manual is available on APC by Schneider Electric's website, www.apc.com.

Product Overview

Specifications

UPS	Power Module	Battery Pack
SRTL2200RMXLI	SRT2200UXI-LI	XBP48RM1U2-LI
SRTL2200RMXLI-NC	SRT2200UXI-NCLI	
SRTL3000RMXLI	SRT3000UXI-LI	
SRTL3000RMXLI-NC	SRT3000UXI-NCLI	
SRTL2200RM4UXLI	SRT2200UXI-LI	XBP48RM2U-LI
SRTL2200RM4UXLI-NC	SRT2200UXI-NCLI	
SRTL3000RM4UXLI	SRT3000UXI-LI	
SRTL3000RM4UXLI-NC	SRT3000UXI-NCLI	

For additional specifications refer to the APC by Schneider Electric website, www.apc.com.

Environmental

Temperature	Operating	0 to 40 °C (32 to 104 °F)
	Storage	-15 to 45 °C (5 to 113 °F)
Elevation	Operating	0 – 3,000 m (0 – 10,000 ft)
	Storage	0 – 15,000 m (50,000 ft)
Humidity		0% to 95% relative humidity, non-condensing
International Protection Code		IP20
Pollution Degree		2

Physical

The UPS is heavy. Follow all lifting guidelines.	
Unit weight with packaging	25 kg (55 lb)
Unit weight without packaging	17.5 kg (38.5 lb)
Unit dimensions without packaging Height x Width x Depth	85 (2U) mm x 432 mm x 611mm 3.35 (2U) in x 17 in x 24 in
Unit dimensions with packaging Height x Width x Depth	245 mm x 600 mm x 810 mm 9.7 in x 23.6 in x 34.3 in
The model and serial numbers are on a small label located on the rear panel.	

The model and serial numbers are on a small label located on the rear panel.

Battery

External Battery Pack	XBP48RM1U2-LI	XBP48RM2U-LI
Battery type	Lithium-ion	
Typical energy capacity	600 watt-hours	2400 watt-hours
Maximum continuous discharge power	3 kW	
Maximum charge rate	12 A	
Battery capacity – Typical	12 Ah	50 Ah
Battery nominal voltage	48 VDC	
Compatible Power Modules	SRT2200UXI-NCLI, SRT3000UXI-NCLI, SRT2200UXI-LI, SRT3000UXI-LI	
Maximum number of XLBPs supported by UPS	10	3
Battery power cable length	600 mm (23.6 in)	
Battery communication cable length	300 mm (11.8 in)	

NOTES:

- The UPS does not support any other type/make of battery packs.
- Refer to the appropriate replacement battery user manual for installation instructions.
- Charge the XLBPs immediately upon receipt / first installation and at least once in six months during storage or when not in use.
- Contact your dealer or go to the APC by Schneider Electric website, www.apc.com for information on replacement battery packs.

Electrical

Overvoltage Category	II
Applicable power grid power distribution system	TN Power System
Applicable standard	IEC 62040-1

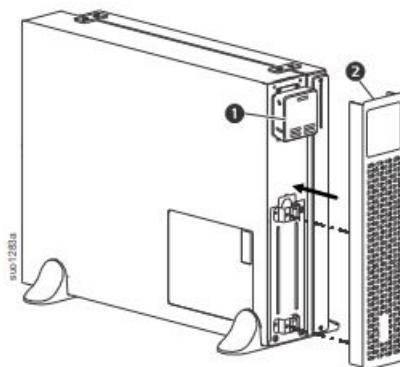
CAUTION*: To reduce the risk of fire, connect the UPS only to a circuit provided with the recommended maximum branch circuit overcurrent protection

Models	Rating	Building Circuit Breaker (CB) Current Rating
SRT3000 models	3000 VA / 2700 W	20 A
SRT2200 models	2200 VA / 1980 W	16 A

Output	
Output Frequency	50 Hz / 60 Hz
Nominal Output Voltage	220 V, 230 V, 240 V
Input	
Input Frequency	40 Hz – 70 Hz
Nominal Input Voltage	220 V, 230 V, 240 V
Input current rating	SRT3000 models: 16 A SRT2200 models: 13 A

Front Panel Features

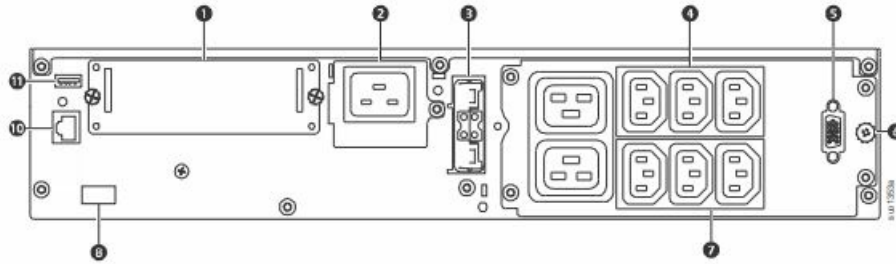
1. Display interface panel
2. Bezel



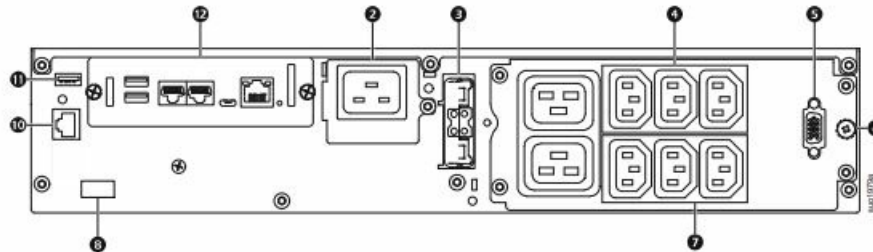
Rear Panel Features

Note: Refer to the table “Key to identify rear panel features” on this page, which provides a key to the callout numbers for the rear panel graphics depicted in this manual.

SRT3000UXI-LI/SRT2200UXI-LI



SRT3000UXI-NCLI/SRT2200UXI-NCLI SRT3000UXI-LI/SRT2200UXI-LI



Key to identifying rear panel features

	SmartSlot	The SmartSlot can be used to connect optional management accessories.
	AC inlet	Connect the UPS to the utility power supply..
	External battery power	Use the external battery cable on the XLBP to connect the UPS and XLBP. XLBPs provide extended runtime during power outages. The UPS will automatically recognize up to 10 external battery packs.
	Controllable outlet group 1	Connect electronic devices to these outlets.
	Battery communication port (DB15)	Connect the battery connection cable from the XLBP. This enables the communication between the XLBP and the UPS.
	Chassis ground screws	The UPS and XLBPs have ground screws for connecting the ground leads. Before connecting a ground lead, disconnect the UPS from the mains power.
	Controllable outlet group 2	Connect electronic devices to these outlets.
	EPO terminal	The Emergency Power Off (EPO) terminal allows the user to connect the UPS to a central EPO system.
	Serial Com	The Serial Com port is used to communicate with the UPS. Use only interface kits supplied or approved by APC by Schneider Electric. Any other serial interface cable will be incompatible with the UPS connector.
	USB port	The USB port is used to connect either a server for native operating system communications or for software to communicate with the UPS.
	Network Management Card (NMC3)	Refer to the User Manual of the pre-installed NMC3 card for details of the ports.

Operation

Connect Equipment

CAUTION

RISK OF ELECTRIC SHOCK

- Disconnect the mains input circuit breaker before installing or servicing the UPS or connected equipment.
- Disconnect internal and external batteries before installing or servicing the UPS or connected equipment.
- UPS AC hardwired and pluggable outlets may be energized by remote or automatic control at any time.
- Disconnect equipment from the UPS before servicing any equipment.

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

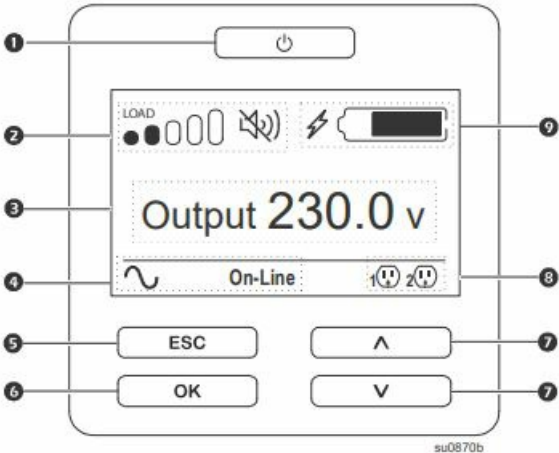
Note: The XLBP batteries will charge to 90% capacity in the first three hours of normal operation. Do not expect full battery runtime capability during this initial charge period.

1. Connect the XLBP. See the Installation manual for details.
2. Connect the equipment to the outlets on the rear panel of the UPS. Refer to “Controllable Outlet Groups” on page 16.
3. Connect the UPS to the building utility power.

Turn the UPS On/Off

- The first time the UPS is turned on the Setup Wizard screen will run. Follow the prompts to configure UPS settings. Refer to “Configuration” on page 11.
- To turn on the UPS and all connected equipment, press the POWER ON/OFF button on the display panel. Follow the prompts to either turn the UPS on immediately or after a delay, then press OK.
 - **Note:** When there is no input power and the UPS is off, the cold start feature can be used to turn on the UPS and connected equipment using battery power.
- To perform a cold start press the POWER ON/OFF button until the beep is heard.
- The display panel will illuminate and the POWER ON/OFF button will illuminate red.
- To turn on the output power press the POWER ON/OFF button again. Select the prompt Turn ON with NO AC and press OK.
- To turn the output power off, press the POWER ON/OFF button. Follow the prompts to either turn the UPS off immediately or after a delay, then press OK.
 - **Note:** Once the UPS output power has been turned off and the AC input has been removed, the UPS will continue to use the battery for internal power for 10 minutes. To remove power completely press the POWER ON/OFF button. Follow the prompt to select Internal Power Off, then press OK.

UPS Display Interface

<p>POWER ON/OFF button</p> <p>Button illumination indications:</p> <ul style="list-style-type: none"> -No illumination, the UPS and the output power are off -White illumination, the UPS, and the output power are on -Red illumination, the UPS is on and the output power is off 	 <p>The diagram shows a rectangular display interface with a central LCD screen. At the top is a power button (1). The screen displays 'LOAD' with three bars (2), a speaker icon with a slash (3), a battery icon (9), and 'Output 230.0 v' (4). Below the screen is a wavy line icon (5) and 'On-Line' (6). At the bottom are 'ESC' (7) and 'OK' (8) buttons, and up/down arrow buttons (7). Two outlet icons (8) are on the right. The model 'su0870b' is at the bottom right.</p>
<p>Load icon</p> <p>Disable/mute the audible alarm icon</p>	
<p>UPS status information</p>	
<p>Operation mode icons</p>	
<p>ESCAPE button</p>	
<p>OK button</p>	
<p>UP/DOWN buttons</p>	
<p>Controllable outlet group status icons</p>	
<p>Battery status icons</p>	

UPS Display Interface operation

Use the UP/DOWN buttons to scroll through the options. Press the OK button to accept the selected option. Press the ESC button to return to the previous menu.

The icons on the LCD interface screen may vary depending on the installed firmware versions and specific UPS models.



Load icon: The approximate load capacity percentage is indicated by the number of load bar sections illuminated. Each bar represents 16% of the load capacity.



Mute icon: Indicates the audible alarm is disabled/mute.

UPS Status Information

The status information field provides key information on the status of the UPS.




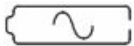



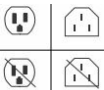
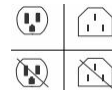




The **Standard** menu will allow the user to select one of the five screens listed below. Use the UP/DOWN buttons to scroll through the screens.

The **Advanced** menu will scroll through the five screens automatically.

- **Input Voltage**
- **Output Voltage**
- **Output Frequency**
- **Load**
- **Runtime**

In the case of a UPS event, status updates will be displayed defining the event or condition that has occurred.

The display screen illuminates amber to indicate a Message and red to indicate an Alert depending on the severity of the event or condition.

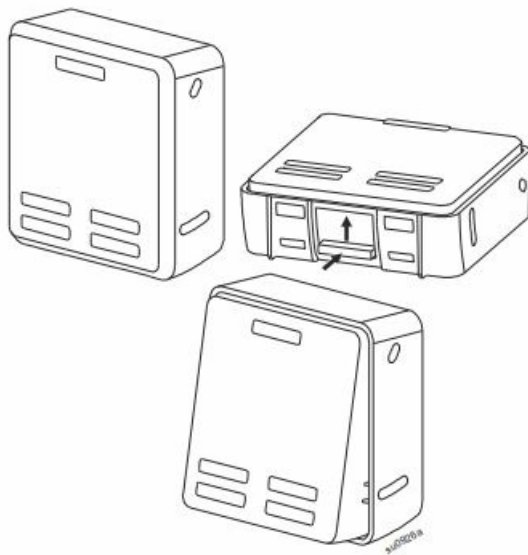
Operation Mode Icons	
	On-Line mode: The UPS is supplying conditioned mains power to connected equipment.
	Bypass mode: The UPS is in Bypass mode and the connected equipment will receive mains power as long as the input voltage and frequency are within the configured limits.
	<p>Green mode: When in Green mode mains power is sent directly to the load.</p> <p>In the event of a mains power outage, there will be an interruption in power to the load of up to 10 ms while the UPS switches to On-Line or Battery mode.</p> <p>When enabling Green mode consideration should be given to devices that may be sensitive to power fluctuations.</p>
UPS Status Icon	
	Battery mode: The UPS is supplying battery power to connected equipment.
	The UPS has detected an internal fault with the battery. Follow the instructions on the screen.
	The UPS has detected a critical fault with the battery. The battery is at the end of its life and has to be replaced.
	Indicates a UPS alert that requires attention.
Controllable Outlet Group Icons	
 	<p>Controllable Outlet Group Power Available: The number next to the icon identifies the specific outlet groups that have available power.</p> <p>The flashing icon indicates the outlet group is turning from OFF to ON with delay.</p>
 	<p>Controllable Outlet Group Power Not Available: The number next to the icon identifies specific outlet groups that do not have available power.</p> <p>The flashing icon indicates the outlet group is turning from ON to OFF with delay.</p>
Battery Status Icons	
	Battery Charge Status: Indicates the battery charge status.
	Battery Charge In Progress: Indicates the battery is charging.

LCD interface angle adjustment

The angle of the LCD interface can be adjusted for ease in viewing the displayed messages.

1. Remove the front bezel.
2. Locate the button on the bottom of the display interface panel.
3. Press the button and slide the bottom of the LCD interface screen out. An audible click will be heard when the

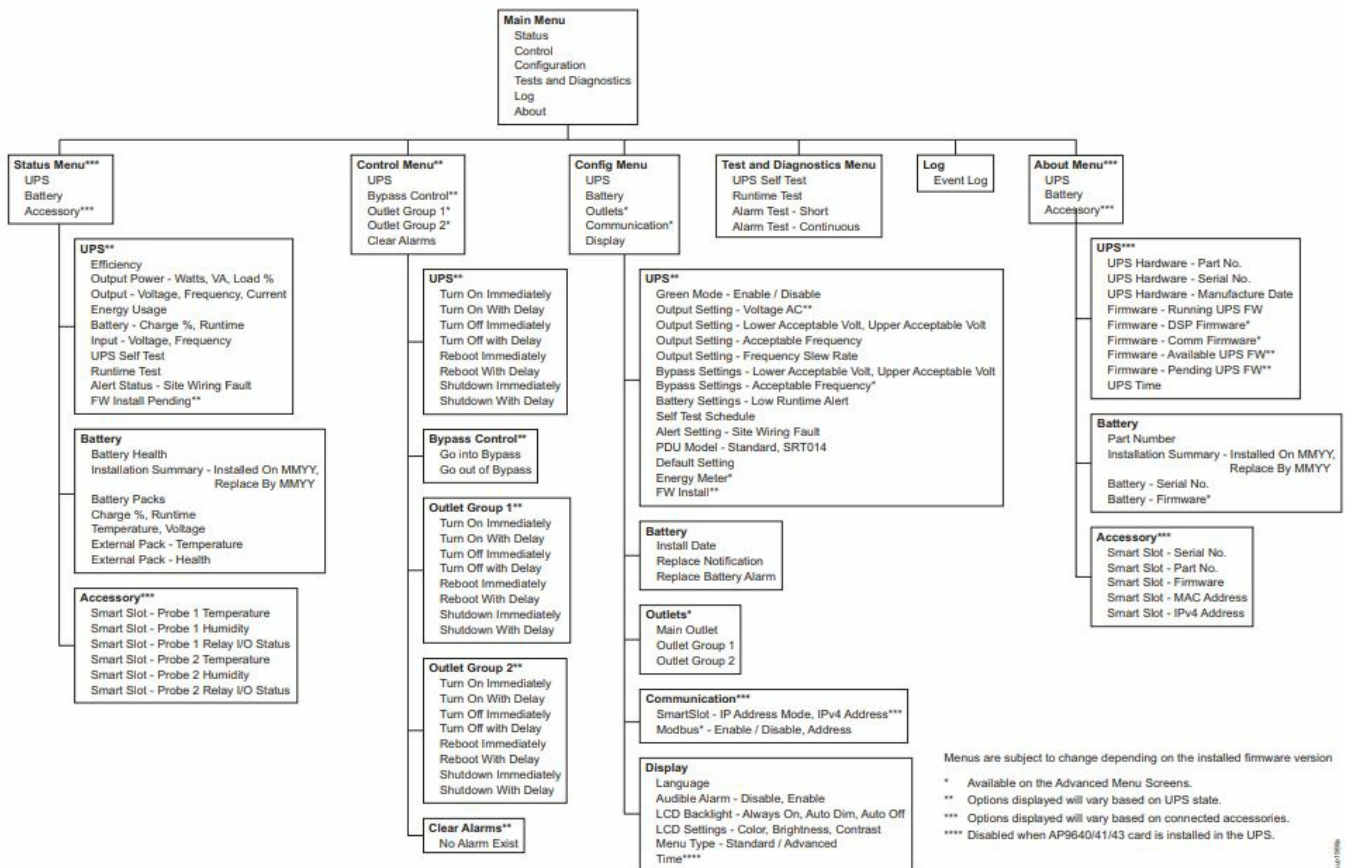
screen reaches the maximum angle.



Menu overview

- The UPS Display Interface has Standard and Advanced menu screens. The preference for Standard or Advanced menu selections is made during initial installation and can be changed at any time through the Configuration menu.
- The Standard menus include the most commonly used options.
- The Advanced menus provide additional options.
 - **Note:** Actual menu screens may differ by model and firmware version.

UPS Menu Overview



Menus are subject to change depending on the installed firmware version

- * Available on the Advanced Menu Screens.
- ** Options displayed will vary based on UPS state.
- *** Options displayed will vary based on connected accessories.
- **** Disabled when AP9640/41/43 card is installed in the UPS.


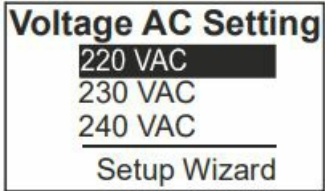
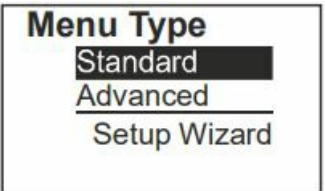
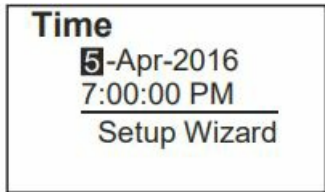
Configuration

UPS Settings

There are three ways to select UPS configuration options.

1. The first time the UPS is turned on the Setup Wizard screen will open. On each menu screen select the desired settings. Press OK after each UPS setting is selected.
 - **Note:** The UPS will not turn on until all of the settings have been configured.
2. Main Menu/Configuration/UPS/Default Setting. This screen allows the user to reset the UPS to factory default settings. Press OK after the UPS setting is selected. Refer to "Configuration" on page 11 and "UPS Menu Overview" .
3. Configure settings using an external interface, such as the Network Management Web interface.

Startup configuration

Function	Description
	Select the language required for the display interface.
	Language options will vary by model and firmware version.
	Options:
	• English
	• Francais
	• Italiano
	• Deutsch
	• Espanol
	• Portugues
	• Japanese
	• Russian
	Select the output voltage.
	Options will vary by model.
	Options:
	• 208 Vac
	• 220 Vac
	• 230 Vac
	• 240 Vac
	<p>The Standard menu options are the most commonly used options.</p> <p>The Advanced menu options will be used by IT professionals who need detailed configuration and reporting information.</p>
	The time menu option allows the user to set the date and time.

General settings

Configure these settings at any time, using the display interface, or the Network Management Web Interface.

	Parameters	Default Value	Options	Description
Config Menu U	Green Mode	Disabled	Disable Enable	Disable or enable Green mode operation

PS		NA	220 V, 230 V, 240 V	Set the output voltage for the UPS. This setting can
		(see description)		only be changed when the UPS output is off.
				These settings may vary depending on the UPS
	AC Setting			model. Default Value:
				The value selected by the user during initial startup.
				Reset to factory default does not change the
				selected value.
	Output Lower Acceptable Voltage	184 V for 208 V output 198 V for 220 V output 207 V for 230 V output 216 V for 240 V output	208 V – 169 to 184 V 220 V – 186 to 198 V 230 V – 195 to 207 V 240 V – 204 to 216 V	If the UPS input voltage is between the lower acceptable voltage and the higher acceptable voltage, the UPS will operate in Green mode when enabled.
	Output Upper Acceptable Voltage	220 V for 208 V output 242 V for 220 V output 253 V for 230 V output 264 V for 240 V output	208 V – 220 to 235 V 220 V – 242 to 253 V 230 V – 253 to 265 V 240V – 264 to 270 V	If the output voltage goes outside the acceptable range the UPS will switch from Green mode to On-Line mode or to Battery mode.
		Auto 50/60 ± 3Hz	Auto 50/60 ± 3 Hz	Set the output frequency for the UPS.
	Output Frequency		50 ± 0.1 Hz 50 ± 3.0 Hz 60 ± 0.1 Hz	
			60 ± 3.0 Hz	

	Output Frequency Slew Rate	1 Hz/Sec	0.5 Hz/Sec 1 Hz/Sec 2 Hz/Sec 4 Hz/Sec	Select the rate of change for output frequency in Hertz per second.
	Bypass Lower Acceptable Voltage	160 V	220 V – 160 to 198 V 230 V – 160 to 207 V 240V – 160 to 216 V	If the UPS input voltage is between the lower acceptable voltage and the higher acceptable
	Bypass Upper Acceptable Voltage	255 V for 220 V output 265 V for 230 V output 270 V for 240 V output	220 V – 242 to 264 V 230 V – 253 to 270 V 240 V – 264 to 270 V	voltage, the UPS can enter Bypass mode when enabled.
	Bypass Setting Acceptable Frequency	Wider Frequency 47 – 63 Hz	<ul style="list-style-type: none"> Wider Frequency 47 – 63 Hz Use Output Frequency Setting 	The setting Wider Frequency enables Bypass mode operation for an input frequency range of 47-63 Hz.
	Low Runtime Alert	150 seconds	0 to 1800 seconds	The UPS will emit an audible alarm when the remaining runtime has reached this threshold.
		Startup + every 14	<ul style="list-style-type: none"> Never 	This is the interval at which the UPS will execute a
	Self Test Schedule	days since the last test	<ul style="list-style-type: none"> Startup Startup + 7 days 	Self Test.
			<ul style="list-style-type: none"> Startup + 14 days 	

	Parameters	Default Value	Options	Description
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Config Menu UPS	Site Wiring Fault	User Can Acknowledge	<ul style="list-style-type: none"> • Disable • Enable • User Can Acknowledge 	<p>Allows the user to configure the behavior of the UPS in response to the site wiring fault alert which is generated due to wrong input AC mains connection with input phase and neutral reversed.</p> <p>Disable: The UPS never indicates site wiring fault to the user.</p> <p>Enable: UPS alerts the user about site wiring faults when detected. The alert cannot be reset until the site wiring fault is corrected.</p> <p>User Can Acknowledge: UPS alerts the user about site wiring faults when detected. The alert is active till the user acknowledges it by pressing OK.</p>
	PDU Model	Standard	SRT014	<p>Select the PDU model installed in the UPS for proper operation of the PDU.</p> <p>See the user documentation for the PDU models SRT011 and SRT012 for details.</p>
	Default Setting	No	Yes/No	Allows the user to restore the UPS factory default settings.
	Reset Energy Meter	No	Yes/No	<p>The Energy Meter stores information on UPS output energy usage.</p> <p>The Reset feature allows the user to reset the Energy Meter to 0 kWh.</p>
	FW Install	Don't Install	<ul style="list-style-type: none"> • Don't Install • Now • Next Off 	<p>The message shows when the output is ON and the new firmware is available to install in the UPS. Select the option to install firmware update in the UPS.</p> <p>Note: If the Now option is selected, the connected load will not be protected from input power outages and other input power disturbances during the duration of the FW update.</p>
	Install Date	Battery Installation Date	Month-Year	Enter the installation date of the RBCs.

Config Menu Battery	Replacement Notification Time	183 days	<ul style="list-style-type: none"> • 0-360 days • -1 	<p>To set the Near End of Life alarm, select the number of days before the estimated battery end of life.</p> <p>When this date is reached the UPS will emit an audible alarm and a message will appear on the display interface screen.</p> <p>Example: Using the default value, the Near End of Life alarm will occur 183 days before the estimated end-of-life date.</p> <p>To disable the notifications select -1.</p>
	Replacement Battery Alarm Time	14 days	<ul style="list-style-type: none"> • 0-180 days • -1 	<p>The Near End of Life audible alarm can be muted. Enter the number of days between the time a Near End of Life alarm is acknowledged and the next Near End of Life alarm occurs.</p> <p>To disable the notifications select -1.</p>

	Parameters	Default Value	Options	Description
Config Menu Display	Language	English	English Français Italiano Deutsch Español Português Japonés Russian	<p>Select the language required for the display interface.</p> <p>Language options will vary by model and firmware version.</p>
	Audible alarm	Enable	<ul style="list-style-type: none"> • Disable • Enable 	When audible alarms are disabled, the UPS will never emit an audible alarm.
	LCD Back Light	Auto Dim	Always On Auto Dim Auto Off	<p>To conserve energy, the LCD backlight illumination dims or turns off when no events are active.</p> <p>Full display interface illumination returns when the UPS changes status as a result of an event or when any button on the display interface is pressed.</p>
	LCD Setting	Optimal Values	Color Brightness Contrast	Adjust the brightness and contrast individually for each LCD backlight color.
	Menu Type	User Choice	Standard Advanced	<p>The Standard menus include the most commonly used options.</p> <p>The Advanced menu options include all parameters.</p>

	Time	<p>UTC</p> <p>Universal Time Coordinated (UTC) is a coordinated time scale, maintained by the Bureau International des Poids et Mesures (BIPM)]</p>	<p>DD-MMM-YYYY</p> <p>HH:MM:SS am/pm</p>	<p>For non-NC models only: Scroll through the fields to set the time.</p> <p>NOTE: Not applicable when AP9640/41/43 Network Management Card (NMC) is connected to the UPS.</p>
Config Menu Outlets	Power On Delay	0 seconds	0-1800 seconds	<p>Select the amount of time the controllable outlet groups will wait between receiving the command to turn on and the actual startup.</p>
	Power Off Delay	90 seconds	0-32767 seconds	<p>Select the amount of time the controllable outlet groups will wait between receiving the command to shutdown and actual shutdown.</p>
	Reboot Duration	8 seconds	4-300 seconds	<p>Select the amount of time the controllable outlet groups will remain off before the UPS will restart.</p>
	Minimum Return Runtime	0 seconds	0-32767 seconds	<p>Select the amount of battery runtime that must be available before the controllable outlet groups will turn on using battery power, after a shutdown.</p>
	Load shed Time On Battery	Disable	Disable Enable	<p>To conserve battery power the UPS can disconnect power from controllable outlet groups not in use.</p> <p>To configure the disconnect delay time for this feature use the Loadshed Time On Battery setting.</p>
	Load shed Time On Battery	5 seconds	5-32767 seconds	<p>Select the amount of time the controllable outlet groups will be allowed to function on battery power before shutdown.</p>
	Load shed On Runtime	Disable	Disable Enable	<p>To conserve battery power the UPS can disconnect power from controllable outlet groups when the Loadshed Runtime threshold is reached.</p>

	Parameters	Default Value	Options	Description
Config Menu Outlets	Load shed Runtime	0 seconds	0-3600 seconds	When the selected runtime threshold is reached the UPS will shut down the controllable outlet groups.
	Load shed Overload	Disable	Disable Enable	To conserve energy in the event of an overload condition greater than 105% output, the controllable outlet groups will immediately turn off. The controllable outlet groups will only turn on again with a manual restart command once the overload the condition has been corrected.
Config Menu Network Manage (for NC models only)	IP Address Mode		Manual, DHCP, BOOTP	Refer to the Network Management Utility documentation.
	IP Address		Program IP, Subnet, Gateway	
Config Menu Communication Modbus	Modbus	Disable	Disable Enable	Allows the user to enable or disable the UPS Modbus functionality
	Modbus Address	1	1 – 223	Allows the user to select the Modbus address

Controllable Outlet Groups

Controllable Outlet Groups provide battery backup power to connected equipment.

Overview

The controllable outlet groups can be configured using the Advanced menu options. Refer to “General settings” on page 12.

The controllable outlet groups can be configured to independently turn off, turn on, shut down, switch to sleep mode, and reboot connected equipment.

- **Turn Off:** Disconnect output power to connected equipment either immediately using the Turn Off Immediately feature or after a configured delay using the Turn Off With Delay feature.
 - **Note:** Controllable outlet groups can be turned on only using the Turn On feature.
- **Turn On:** Connect output power to connected equipment either immediately using the Turn On Immediately feature or after a configured delay using the Turn On With Delay feature.
- **Shutdown:** Disconnects the power to connected equipment either immediately or after a configured delay. Equipment reconnects after a configured delay when mains power becomes available and other configured

conditions are met.

Each controllable outlet group can be configured separately to allow power sequencing for equipment connected to any controllable outlet group.

- **Reboot:** Disconnect the power to connected equipment either immediately or after a configured delay. Reconnect equipment after a configured delay when either mains or battery power becomes available and other configured conditions are met.

Each controllable outlet group can be configured separately to allow power sequencing for loads connected to any controllable outlet group.

- **Sleep:** This mode is a reboot with an extended duration where an outlet(s) remain turned off.
 - Disconnect the power to connected equipment either immediately or after a configured delay. Reconnect equipment after a configured delay when either mains or battery power becomes available and other configured conditions are met.
 - Each controllable outlet group can be configured separately to allow power sequencing for equipment connected to any controllable outlet group.
 - To configure Sleep mode use an external interface, such as the Network Management Web interface.
- Automatically turn off or shut down when certain conditions occur, based on user configurations set using the Config Menu Outlets menus. Refer to “Configuration” on page 11

Connect controllable outlet groups

- Connect critical equipment to one controllable outlet group.
- Connect peripheral equipment to the other controllable outlet groups.
 - To conserve battery runtime during a power outage, nonessential equipment can be configured to shut down. Use Loadshed Time on Battery Enable/Disable and Loadshed Time on Battery Setting defined in the General Settings section. Refer to “General settings” on page 12.
 - If equipment has dependent peripherals that must restart or shut down in a specific sequence, such as an Ethernet switch that must restart before a connected server can be restarted, connect the devices to different outlet groups. Each controllable outlet group can be configured independently of the other groups.
- Use the Configuration menus to configure how the controllable outlet groups will react in the event of a power outage.

Emergency Power Off

Overview

- The Emergency Power Off (EPO) option is a feature that will immediately disconnect all connected equipment from mains power. The UPS will immediately shut down and will not switch to battery power.
- Connect each UPS to the EPO switch. If multiple units are to be controlled with an EPO switch, each UPS must be connected separately 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

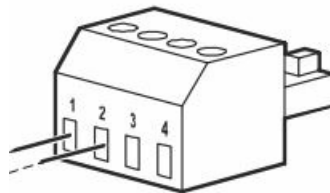
- Adhere to all national and local electrical codes.
- Wiring must be performed by a qualified electrician.
- Always connect the UPS to a grounded outlet.

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

Normally open contacts

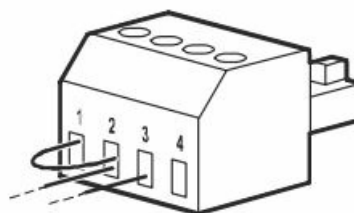
1. If the EPO switch or relay contacts are normally open, insert the wires from the switch or contacts at pins 1 and 2 of the EPO terminal block. Use 16-28 AWG wire.
2. Secure the wires by tightening the screws.

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 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 the main 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 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 by national and local regulations.

Network Management Interface

(For NC models only)

Introduction

The UPS has a network port and console port that can be used to access the Network Management Interface. Refer to the Network Management Card installation manual supplied with this product.

IP Address Configuration

- The default TCP/IP configuration setting DHCP, assumes that a properly configured DHCP server is available to provide TCP/IP settings to the Network Management Interface.
- If the Network Management Interface obtains an IPv4 address from a DHCP server, use the display interface menus About/Accessory, to see the address.
- To set up a static IPv4 address use the display interface Config menu. Set the IP address Subnet Mask and Gateway from the Config menu.
- See the User's Guide for information about the Network Management Interface and setup instructions.

Related Documents

For related documents refer to APC by Schneider Electric Web site, www.apc.com

Smart Battery Management

Definitions

- **Smart External Battery Pack (XLBP):** An enclosure that contains RBC(s) and battery management electronics.
- **User Interface (UI):** Any interface by which a user can interact with the system. This may include a UPS display interface, a network management interface or PowerChute™ Network Shutdown software.

NOTE:

- Do not use a battery that is not APC-approved.
- The system will not detect the presence of a non-APC-approved battery and may adversely affect the operation of the system.

- Use of a non APC approved battery will void the manufacturer's warranty.

Maintenance

Battery health monitoring:

- The battery energy output and voltage are monitored to assess the health of the installed batteries when the UPS is operating on the battery.
- Battery health monitoring is done during a UPS Self Test, a Runtime Calibration Test, and when the UPS is operating on battery power.
- The UPS can be configured to perform periodic, automatic Self Tests.

End of useful life

- **Near end-of-life notification:** A message will appear on the UPS display interface screen when each XLBP is approaching the end of its useful life. For configuration details refer to Replacement Notification Time and Replacement Battery Alarm Time in the UPS operation manual.
- **Needs replacement notification:** The UPS display interface screen shows when XLBP replacement is required. The XLBP must be replaced as soon as possible.
- **Recycling:** Recycle the XLBP. Do not disassemble.

Recommended actions after installing new XLBPs

Refer to the UPS Operation Manual for details on Test and Diagnostics Menu options for the following tests:

- Self Test
- Runtime Test
- Visible Alarm Test

The following actions should be performed after installing a new XLBP:

- Verify that the UPS is connected to input power and that output power is turned on.
- When a new XLBP is installed, verify that the XLBP is detected by the system.
 - Perform a UPS Visible Alarm Test.
 - Check that the LED on all installed XLBPs is lit.
 - Allow the XLBP to charge for at least 24 hours.
- Verify that the UPS load is greater than 400 watts. This can be verified through the UPS display interface.
- Perform a UPS Self Test.
- If at the time of XLBP installation UPS input power is not available, turn on the UPS output from battery power for 30 seconds. This will allow the UPS to detect all installed XLBPs. Refer to the UPS Operation Manual for instructions on how to turn the UPS on and off.
- Verify on the UPS display interface that the installation dates for the replaced XLBPs are set to the current date.
 - The installation dates can be changed manually on the UPS display interface.
 - For configuration details refer to Battery Install Date in the UPS Operation Manual.

- Allow the system to charge for 24 hours to ensure full runtime capability.
- Initiate a Runtime Calibration Test through the UI.

XLBP installation and replacement

Refer to the External Battery Pack Installation Guide for installation and replacement instructions.

Troubleshooting

- Use the table below to solve minor installation and operation problems.
- Refer to the APC by Schneider Electric website, www.apc.com for assistance with complex UPS problems. The UPS features firmware that can be upgraded.
- Go to the APC by Schneider Electric website, www.apc.com/Support, or contact your local Customer Care Center for more information.

Problem and Possible Cause	Solution
UPS is not turning on or there is no output	
The UPS is not connected to mains power.	Be sure the power cable is securely connected to the main power supply.
The UPS display interface screen shows very low or no mains power.	Check the mains power supply to verify acceptable power quality.
There is an internal UPS alert or message.	The UPS Display Interface screen will show a message to identify the alert or message and corrective action.
UPS emits an audible alarm	
Normal UPS operation when running on battery power.	<p>The UPS is operating on battery power.</p> <p>Refer to the status of the UPS as shown on the UPS Display Interface screen.</p> <p>Press any key to mute all audible alarms.</p>
The UPS emits an audible alarm and has a red or amber backlight on the UPS Display Interface screen.	<p>The UPS has detected a fault.</p> <p>Refer to the display interface screen for information.</p>
UPS does not provide expected backup time	
The UPS batteries are weak due to a recent power outage or they are near the end of service life.	<p>Charge the batteries. Batteries require recharging after extended outages and wear out faster when put into service often or when operated at elevated temperatures. If the batteries are near the end of service life, consider replacing the batteries even if the</p> <p>Replace Battery message is not displayed.</p>


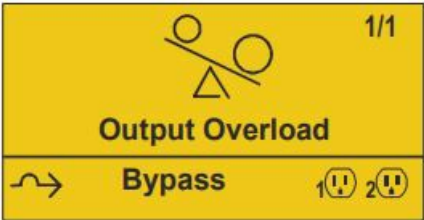

The UPS is experiencing an overload condition.	<p>The connected equipment exceeds the specified maximum load. Refer to the APC by Schneider Electric website, www.apc.com for product specifications.</p> <p>The UPS will emit a sustained audible alarm until the overload condition is corrected.</p> <p>Disconnect nonessential equipment from the UPS to correct the overload condition.</p>
UPS operates on battery power while connected to mains power	
The input circuit breaker has tripped.	<p>Reduce the load on the UPS. Disconnect nonessential equipment and reset the circuit breaker. Check the circuit breaker rating for the connected equipment.</p>
There is very high, very low, or distorted input line voltage.	<p>Navigate to the UPS Display Interface screen that shows input voltage. Verify that the input voltage is within specified operating limits.</p> <p>If no input voltage is indicated on the UPS Display Interface screen, contact Customer Support through the APC by Schneider Electric website, www.apc.com.</p>
The UPS Display Interface screen shows the message Waiting for Minimum Runtime .	<p>The UPS has been configured to operate for a specified period of runtime. The setting can be changed through the Config/UPS menus.</p>
UPS Display Interface Status screen shows Overload and the UPS emits a sustained audible alarm	
The UPS is experiencing an overload condition.	<p>The connected equipment exceeds the maximum load rating for the UPS.</p> <p>The UPS will emit a sustained audible alarm until the overload condition is corrected. Disconnect nonessential equipment from the UPS to correct the overload condition.</p>
UPS Display Interface Status screen shows UPS is operating in Bypass mode	
The UPS received a command to operate in Bypass mode	No action is required.
The UPS has automatically switched to Bypass mode due to an internal UPS alert or message.	The UPS Display Interface screen will show a message to identify the alert or detected error and corrective action.
UPS Display Interface is red or amber and shows an alert or message The UPS emits a sustained audible alarm	

The UPS has detected a problem during normal operation.	<p>Follow the instructions on the UPS Display Interface screen.</p> <p>Press any key to mute all audible alarms.</p>
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Problem and Possible Cause	Solution
The UPS Display Interface screen shows the message Disconnected Battery .	<p>Be sure the battery cables are securely connected.</p> <p>Perform a UPS self-test to be sure the UPS detects all connected batteries.</p> <p>To perform a UPS Self Test use the UPS Display Interface menu option Test and Diagnostics.</p>
The UPS Display Interface screen shows the message Replace Battery .	Replace all of the batteries. Contact APC by Schneider Electric customer support.

The UPS display turns red or amber, displays an alert message, and emits a sustained audible alarm. Red illumination indicates a UPS alarm that requires immediate attention.

Amber illumination indicates a UPS alarm that requires attention.

<p>There is an internal UPS alert or message.</p> 	<p>Do not attempt to use the UPS. Turn the UPS off and have it serviced immediately.</p>
<p>The UPS is experiencing an overload condition.</p> 	<p>Reduce the load on the UPS. Disconnect nonessential equipment.</p>
<p>The UPS has detected a Site Wiring Fault.</p> 	<p>Correct the building site wiring fault or ignore this message. See Config Menu UPS in “General settings” on page 12.</p>

The Replace Battery alert is displayed

The battery has a weak charge.	Allow the battery to recharge for at least four hours. Then, perform a UPS Self Test . If the problem persists after recharging, replace the battery.
The replacement battery is not properly connected.	Be sure the battery cable is securely connected.

Transport

1. Shut down and disconnect all connected equipment.
2. Disconnect the unit from the main power.
3. Disconnect all internal and external batteries (if applicable).
4. Follow the shipping instructions outlined in the Service section of this manual.

Service

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

1. Review the Troubleshooting section of the manual to eliminate common problems.
2. If the problem persists, contact APC by Schneider Electric Customer Support through the APC by Schneider Electric website, www.apc.com.
 1. Note the model number serial number and date of purchase. The model and serial numbers are located on the rear panel of the unit and are available through the LCD on select models.
 2. Call Customer Support. 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#).
 3. If the unit is under warranty, the repairs are free.
 4. Service procedures and returns may vary internationally. For country-specific instructions refer to the APC by Schneider Electric website, www.apc.com.
3. Pack the unit properly to avoid damage in transit. Never use foam beads for packaging.
 1. Damage sustained in transit is not covered under warranty.
 1. **Note:** Before shipping, always disconnect battery modules in a UPS or external battery pack.
 2. The disconnected internal batteries may remain inside the UPS or external battery pack.
4. Write the RMA# provided by Customer Support on the outside of the package.
5. Return the unit by the insured, prepaid carrier to the address provided by Customer Support.

Limited Factory Warranty

Schneider Electric IT Corporation (SEIT), warrants its products to be free from defects in materials and workmanship for a period of five (5) 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 part 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 the end-user or any third person misuse, negligence, improper installation, testing, operation or use of the product contrary to SEIT recommendations of 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 APC by Schneider Electric website: 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 about 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 website 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 websites 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 another distributor from whom you purchased your APC by Schneider Electric product.

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EN 990-91130A

Frequently Asked Questions

What are the environmental operating conditions for the APC SRTL3000RMXLI Smart-UPS?

The operating temperature range is 0 to 40°C (32 to 104°F), and the storage temperature range is -15 to 45°C (5 to 113°F). The operating elevation range is 0 to 3,000 meters (0 to 10,000 feet), and the storage elevation range is 0 to 15,000 meters (50,000 feet). The humidity range is 0% to 95% relative humidity, non-condensing.

What are the physical dimensions and weight of the UPS?

The unit dimensions without packaging are 85 (2U) mm x 432 mm x 611 mm (3.35 (2U) in x 17 in x 24 in). The unit weight without packaging is approximately 17.5 kg (38.5 lb).

What type of battery does this UPS use, and what is its typical energy capacity?

The UPS uses a Lithium-ion battery type with a typical energy capacity of 600 watt-hours.

What is the maximum continuous discharge power of the battery?

The maximum continuous discharge power of the battery is 3 kW.

How many external battery packs (XLBPs) can be supported by this UPS?

The UPS can support up to 3 XLBPs

What is the maximum charge rate for the battery?

The maximum charge rate for the battery is 12 A.

What is the nominal voltage of the battery?

The nominal voltage of the battery is 48 VDC.

What is the Overvoltage Category and Applicable power grid power distribution system for this UPS?

The Overvoltage Category is II, and the Applicable power grid power distribution system is TN Power System.

What is the rating of the APC SRTL3000RMXLI Smart-UPS?

The rating is 3000 VA / 2700 W.

What is the nominal output voltage and frequency of the UPS?

The nominal output voltage options are 220 V, 230 V, or 240 V, and the output frequency is either 50 Hz or 60 Hz.

What is the input voltage and frequency range for this UPS?

The input voltage options are 220 V, 230 V, or 240 V, and the input frequency range is 40 Hz to 70 Hz.

How many controllable outlet groups does this UPS have, and what are their functions?

The UPS has two controllable outlet groups, and they can be configured for specific functions.

Reference: [APC SRTL3000RMXLI On-Line SRT Smart-UPS Operation Manual-device.report](#)

References

- [User Manual](#)