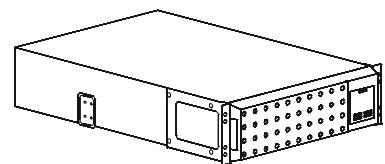
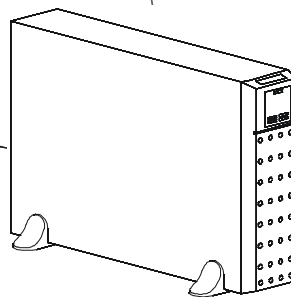


Operation Manual

Smart-UPS[™] On-Line SRT

SRT5KXLI
SRT5KRMXLI
SRT5KXLT
SRT5KRMXLT
SRT5KXLT-IEC
SRT5KRMXLT-IEC
SRT5KRMXLW-HW
SRT6KXLI
SRT6KRMXLI
SRT6KXLT
SRT6KRMXLT
SRT6KXLT-IEC
SRT6KRMXLT-IEC

208/220/230/240 Vac
Tower/Rack-Mount 3U/4U



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.



The addition of this symbol either to a “Danger” or “Warning” safety label indicates that an electrical hazard exists which will result in personal injury if the instructions are not followed.



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

 <18 kg <40 lb	 18-32 kg 40-70 lb	 32-55 kg 70-120 lb	 >55 kg >120 lb		
---------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------

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.
- 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.
- The batteries are heavy. Remove the batteries before installing the UPS and external battery packs (XLBPs), in a rack.
- Always install XLBPs at the bottom in rack-mount configurations. The UPS must be installed above the XLBPs.
- Always install peripheral equipment above the UPS in rack-mount configurations.
- Additional safety information can be found in the Safety Guide supplied with this unit.

Deenergizing safety

- The UPS contains internal batteries and may present a shock hazard even when disconnected from AC and DC power.
- The AC and DC output connectors may be energized by remote or automatic control at any time.
- Before installing or servicing the equipment check that the:
 - Mains circuit breaker is in the **OFF** position
 - Internal UPS batteries are removed
 - XLBP battery modules are disconnected

Electrical safety

- 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 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 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

- Replace batteries with the same number and type of batteries as originally installed in the equipment.
- The battery typically lasts for two to five years. Environmental factors impact battery life. Elevated ambient temperatures, poor quality utility power, and frequent short duration discharges will shorten battery life.
- Replace batteries immediately when the unit indicates battery replacement is necessary.
- Schneider Electric uses Maintenance-Free sealed Lead Acid batteries. Under normal use and handling, there is no contact with the internal components of the battery. Over charging, over heating or other misuse of

batteries can result in a discharge of battery electrolyte. Released electrolyte is toxic and may be harmful to the skin and eyes.

- CAUTION: Before installing or replacing the batteries, remove jewelry such as wristwatches and rings. High short circuit current through conductive materials could cause severe burns.
- CAUTION: Do not dispose of batteries in a fire. The batteries may explode.
- CAUTION: Do not open or mutilate batteries. Released material is harmful to the skin and eyes and may be toxic.

Hardwire safety

- Verify 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.

General information

- The UPS will recognize as many as 10 external battery packs connected to the UPS.
Note: For each XLBP 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.

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 designed 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.

Product Description

The APC by Schneider Electric Smart-UPS™ On-Line SRT is a high performance uninterruptible power supply (UPS). The UPS helps to provide protection for 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 web site, contact sales

person Product Overview

Specifications

For additional specifications refer to the APC by Schneider Electric Web site, contact sales

person.

Environmental

Temperature	Operating	0° to 40° C (32° to 104° F)
	Storage	-15° to 45° C (5° to 113° F)
Maximum 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	
Note: Charge the battery modules every six months during storage.		
Environmental factors impact battery life. Elevated ambient temperatures, high humidity, poor quality mains power, and frequent short duration discharges will shorten battery life.		

Physical

SRT5K model	
The UPS is heavy. Follow all lifting guidelines.	
Unit weight batteries included, without packaging	56.6 kg (124.8 lb)
Unit weight batteries included, with packaging	Rack-Mount models: 67.3 kg (148.4 lb) Tower models: 64.36 kg (141.9 lb)
Unit dimensions without packaging Height x Width x Depth	130 mm x 432 mm x 711 mm 5 in x 17 in x 28 in
Unit dimensions with packaging Height x Width x Depth	330 mm x 610 mm x 960 mm 13 in x 24 in x 37.8 in
The model and serial numbers are on a small label located on the rear panel.	
SRT6K model	
The UPS is heavy. Follow all lifting guidelines.	
Unit weight batteries included, without packaging	60 kg (132 lb)
Unit weight batteries included, with packaging	67 kg (147.4 lb)
Unit dimensions without packaging Height x Width x Depth	174 mm x 432 mm x 719.4 mm 6.9 in x 17 in x 28.3 in
Unit dimensions with packaging Height x Width x Depth	370 mm x 610 mm x 960 mm 14.6 in x 24 in x 37.8 in
The model and serial numbers are on a small label located on the rear panel.	

Battery

CAUTION

RISK OF HYDROGEN SULPHIDE GAS AND EXCESSIVE SMOKE

- Replace the battery at least every 5 years.
- Replace the battery immediately when the UPS indicates battery replacement is necessary.
- Replace battery at the end of its service life.
- 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 overtemperature condition, or when there is evidence of electrolyte leakage. 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.
- *Replace all battery modules (including the modules in External Battery Packs) which are older than one year, when installing additional battery packs or replacing the battery module(s).

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

*Contact APC by Schneider Electric Worldwide Customer Support to determine the age of the installed battery modules.

NOTE: Contact APC by Schneider Electric Worldwide Customer Support when *Battery overtemperature* alert appears on the LCD display.

Battery type	Sealed, maintenance-free, Valve Regulated Lead-Acid battery
Replacement battery module 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, contact sales person for information on replacement batteries.	APCRBC140
Number of battery modules	2 battery modules
Voltage for each battery module Total voltage for the UPS Ah rating	96 VDC 192 VDC 5 Ah per battery module
XLBP cable length	500 mm (19.7 in)

Battery module	UPS	XLBP
APCRBC140	SRT5KXLx/SRT5KRMXLx/SRT6KXLx/SRT6KRMXLx	SRT192BP/SRT192RMBP

Electrical

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

* Applicable only to SRT5KXLI, SRT5KRMXLI, SRT5KRMXLW-HW, SRT6KXLI, and SRT6KRMXLI models.

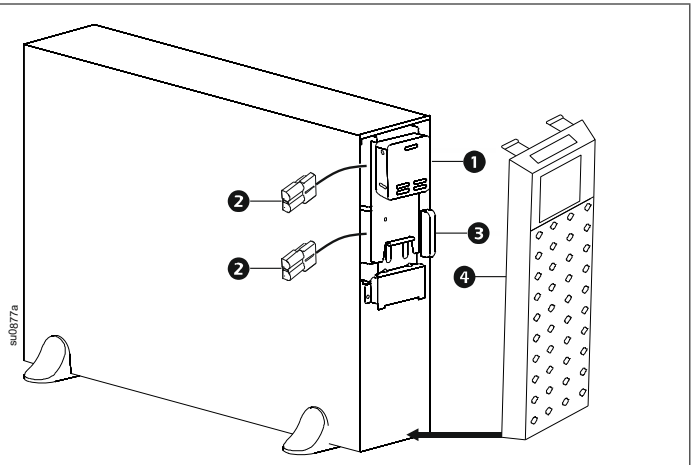
CAUTION: To reduce the risk of fire, connect the UPS only to a circuit provided with recommended maximum branch circuit overcurrent protection in accordance with the National Electrical Code, ANSI/NFPA 70 and the Canadian Electrical Code, Part I, C22.1.

Models	Rating		Branch Circuit Overcurrent Rating / Building Circuit Breaker (CB) Current Rating
	Online	Green Mode	
SRT5KXLT	5.4 kVA/4.8 kW at 208 V 6.0 kVA/4.8 kW at 240 V	4.8 kVA at 208 V 5.5 kVA at 240 V	30 A
SRT5KRMXLT			
SRT5KXLT-IEC			
SRT5KRMXLT-IEC			
SRT5KXLI	5 kVA/4.5 kW	5.0 kVA	40 A
SRT5KRMXLI			
SRT5KRMXLW-HW			
SRT6KXLT	6 kVA/6 kW	6.0 kVA	50 A
SRT6KRMXLT			
SRT6KXLT-IEC			
SRT6KRMXLT-IEC			
SRT6KXLI			
SRT6KRMXLI			

Output	
Output Frequency	50 Hz/60 Hz \pm 3 Hz
Nominal Output Voltage	SRT5KRMXLW-HW: 208 V, 220 V, 230 V, 240 V SRT5K/6KXLI, SRT5K/6KRMXLI: 220 V, 230 V, 240 V SRT5K/6KXLT/XLT-IEC, SRT5K/6KRMXLT/RMXLT-IEC: 208 V, 240 V
Input	
Input Frequency	40 Hz-70 Hz \pm 3 Hz
Nominal Input Voltage	SRT5KRMXLW-HW: 208 V, 220 V, 230 V, 240 V SRT5K/6KXLI, SRT5K/6KRMXLI: 220 V, 230 V, 240 V SRT5K/6KXLT/XLT-IEC, SRT5K/6KRMXLT/RMXLT-IEC: 208 V, 240 V

Front panel features

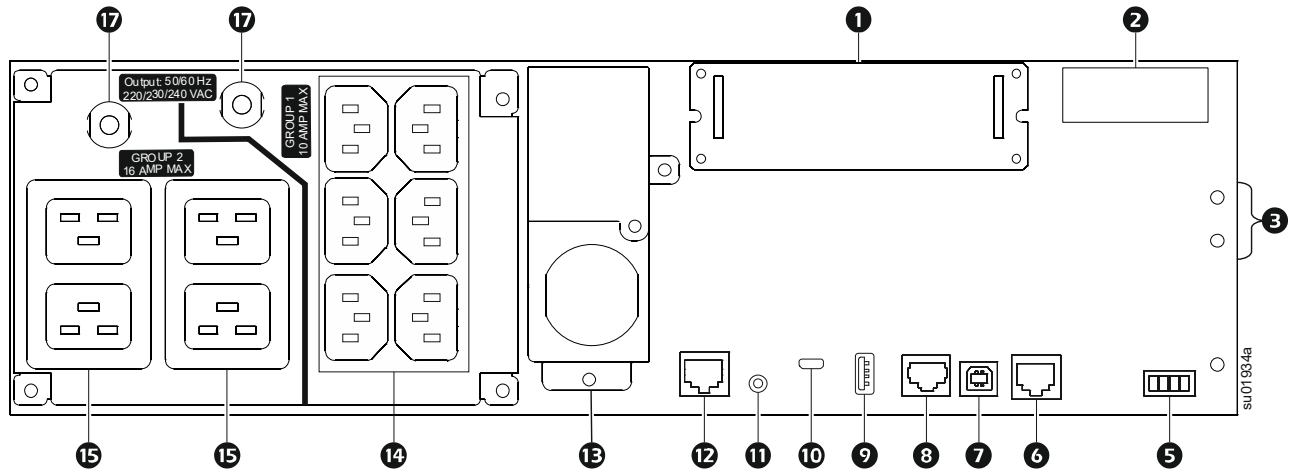
①	Display interface panel
②	UPS battery connectors
③	Battery compartment
④	Bezel



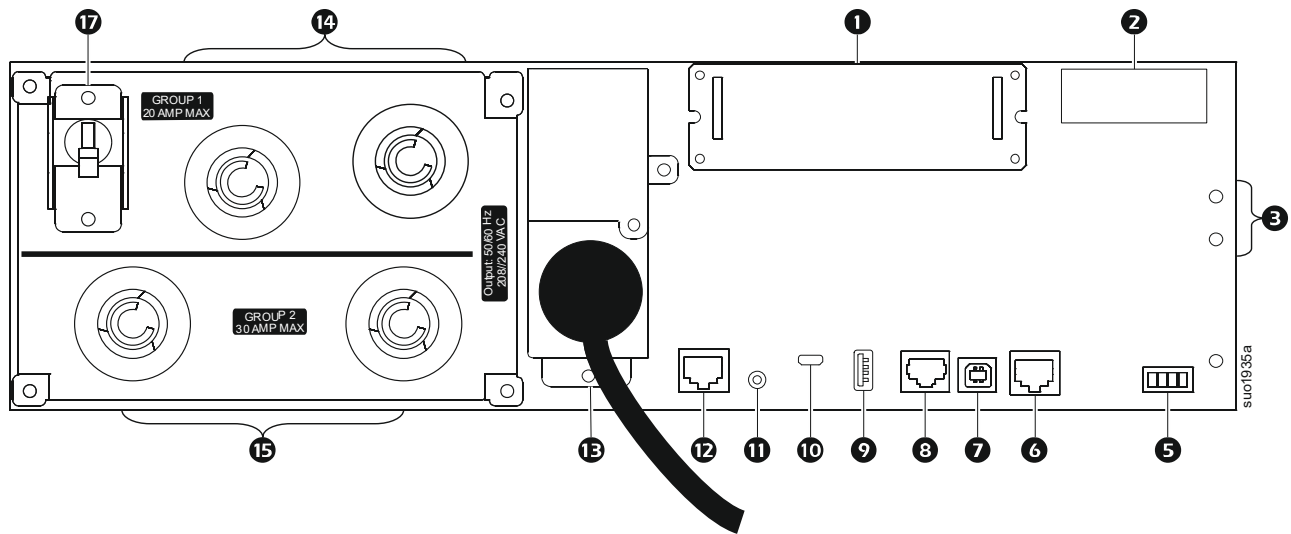
Rear panel features

Note: Refer to the table “Key to identify rear panel features” on page 10, that provides a key to the callout numbers for the rear panel graphics depicted in this manual.

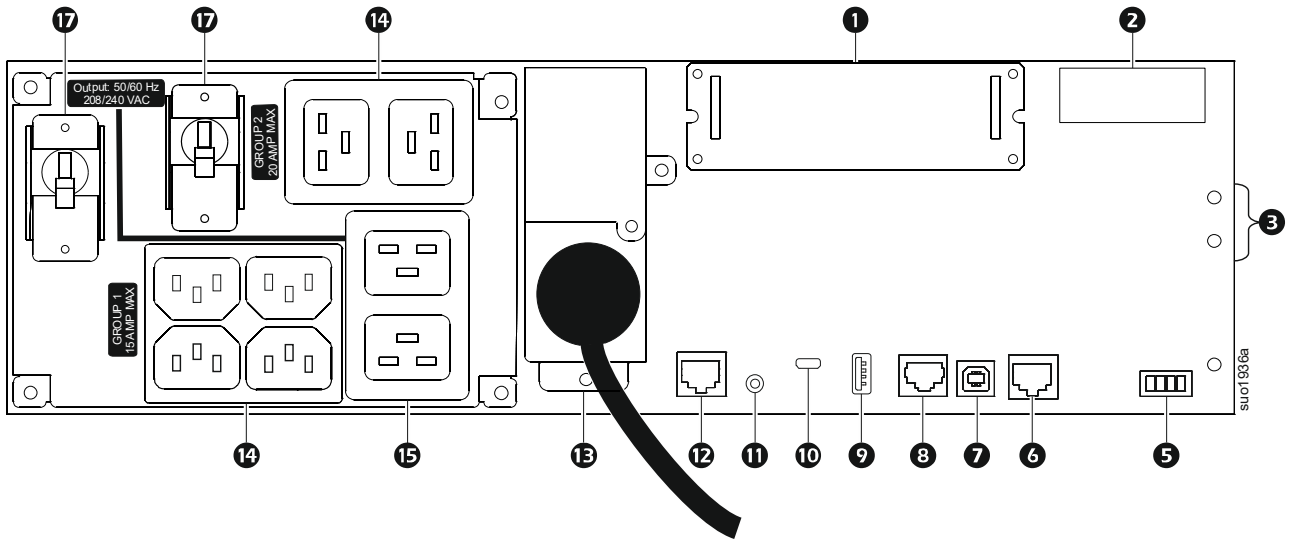
SRT5KXLI/SRT5KRMXLI



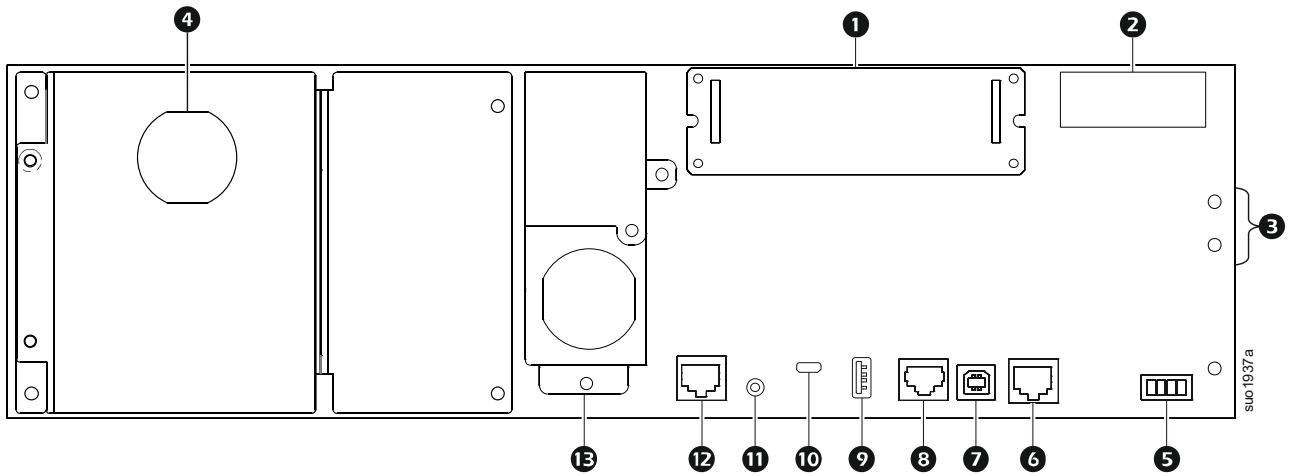
SRT5KXLT/SRT5KRMXLT



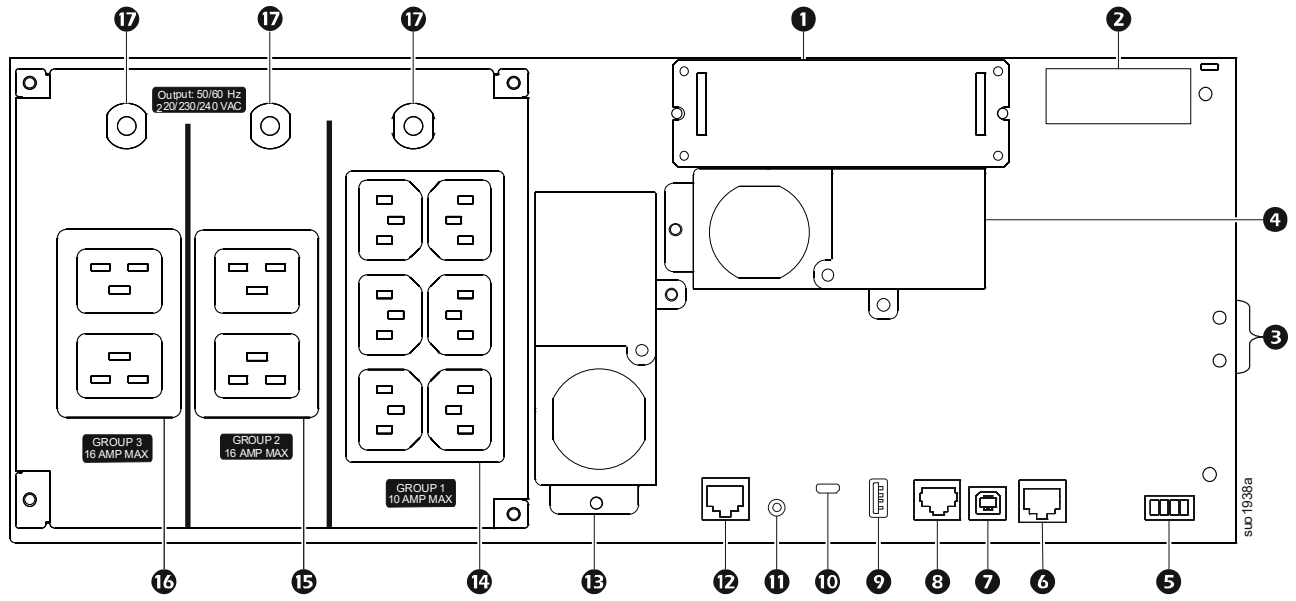
SRT5KXLT-IEC/SRT5KRMXLT-IEC



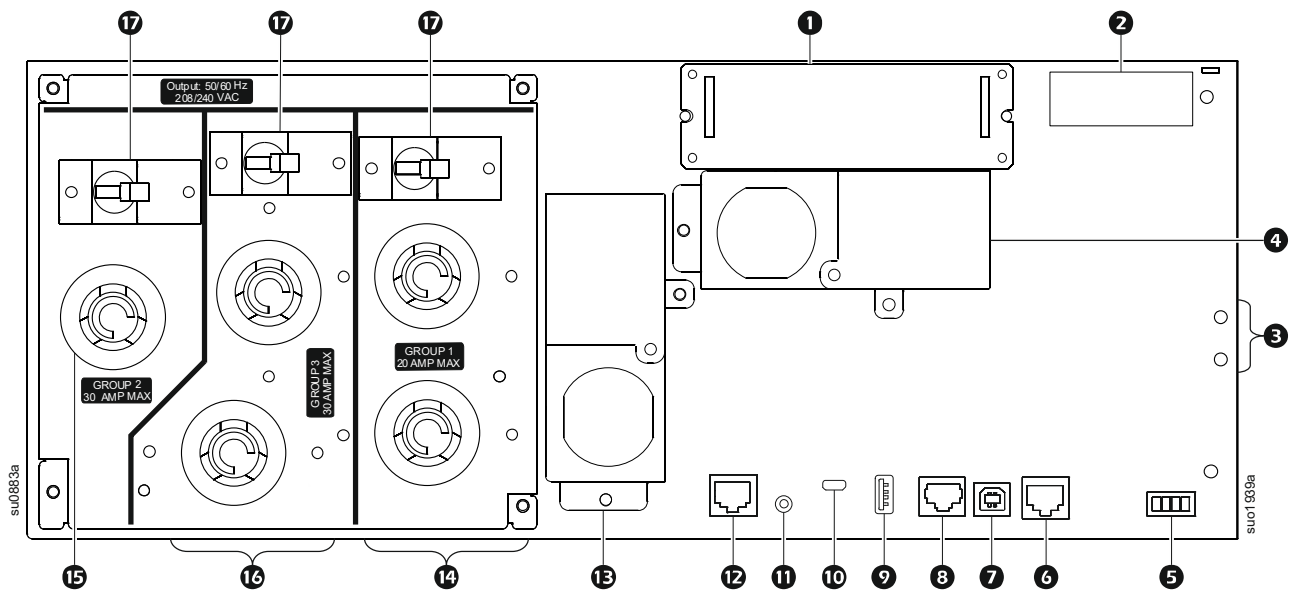
SRT5KRMXLW-HW



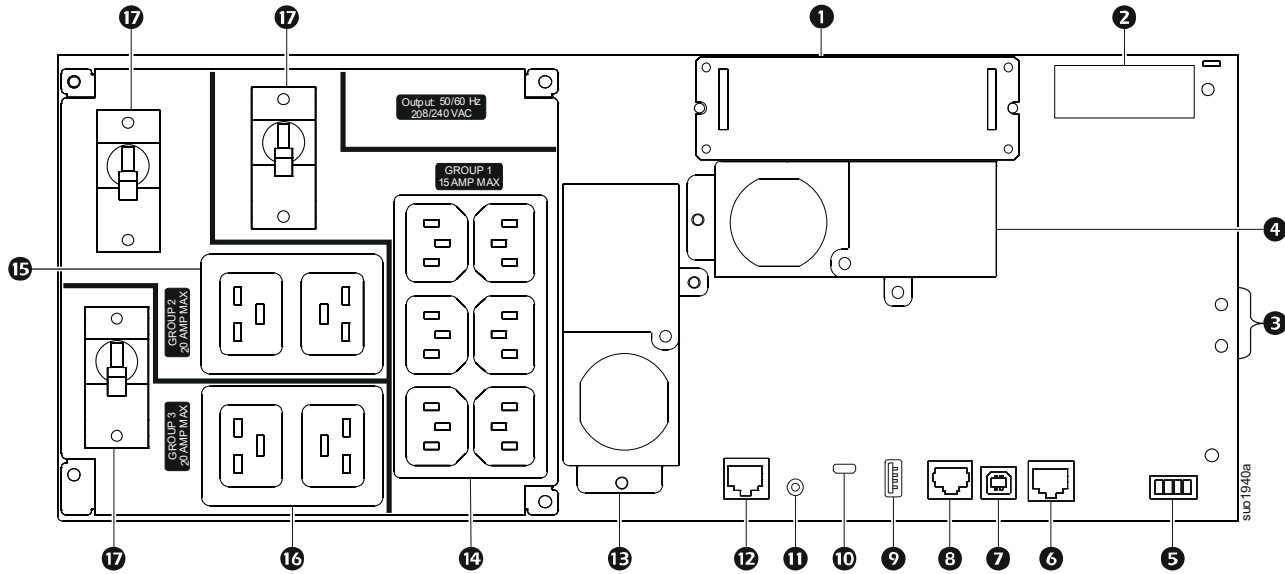
SRT6KXLI/SRT6KXRMXLI



SRT6KXLT/SRT6KRMXLT



SRT6KXLT-IEC/SRT6KRMXLT-IEC



Key to identify rear panel features

1	SmartSlot	The SmartSlot can be used to connect optional management accessories.
2	External battery power and communication connector	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.
3	Chassis ground screws	The UPS and XLBPs have ground screws for connecting the ground leads. Prior to connecting a ground lead, disconnect the UPS from mains power.
4	Hardwire output box	SRT5KRMXLW-HW, SRT6KXLI, SRT6KRMXLI, SRT6KXLT, SRT6KRMXLT, SRT6KXLT-IEC, SRT6KRMXLT-IEC models are equipped with a hardwire output box. Refer to “Wiring Specifications” on page 12 for hardwire specifications. Remove the knockouts. Snap-In strain reliefs are recommended (not supplied).
5	EPO terminal	The Emergency Power Off (EPO) terminal allows the user to connect the UPS to a central EPO system.
6	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.
7	UPS 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.
8	Universal I/O port	Use to connect: <ul style="list-style-type: none"> • Temperature sensor AP9335T (supplied) • Temperature/humidity sensor AP9335TH (not supplied) • Relay input/output connector AP9810 (not supplied), supports two input contacts and one output relay
9	USB port	Connector for a USB flash drive.
10	Console port	Use the Console port to configure the network management features.
11	Reset button	Use the Reset button to restart the Network Management Interface. Note: A restart of the Network Management Interface does not affect UPS operation.
12	Network port	Use the Network port to connect the UPS to the network.

13	AC input power cable or hardwire input box	<ul style="list-style-type: none"> • SRT5KXLT, SRT5KRMXLT, SRT5KXLT-IEC, SRT5KRMXLT-IEC models have factory installed input power cables. • All other models are equipped with a hardwire input box. Refer to “Wiring Specifications” on page 12. Remove the knockouts. Snap-In strain reliefs are recommended (not supplied).
14	Controllable outlet group 1	Connect electronic devices to these outlets.
15	Controllable outlet group 2	Connect electronic devices to these outlets.
16	Controllable outlet group 3	Connect electronic devices to these outlets.
17	Circuit breaker	In the event an overload condition occurs, disconnect nonessential equipment. Then reset the circuit breaker.

Operation

Wiring Specifications



⚠ CAUTION

RISK OF ELECTRIC SHOCK



- Adhere to all national and local electrical codes.
- Wiring should be performed by a qualified electrician.
- Use Snap-In strain relief(s) provided with the unit.
Refer to the Installation Guide for knockout panel sizes.
- The UPS must be wired into a branch circuit, equipped with a circuit breaker rated as specified in the tables below.
- Actual wire size must comply with required amp capacity and national and local electrical codes.
- Recommended input terminal screw torque: 16 lbf-in (2 Nm).

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



SRT5K/6KXLT, SRT5K/6KXLT-IEC models

Input connections	Wire to L1, L2, 
Output connections	Wire to L1, L2, 

System	Wiring	Voltage	Current full load, nominal	External input circuit breaker, (typical)	Wire size, typical
SRT5KXLT SRT5KRMXLT SRT5KXLT-IEC SRT5KRMXLT-IEC	Input Output	208/240 Vac	24 A	30 A/2-pole	L6-30 (provided with the UPS)
SRT6KXLT SRT6KRMXLT SRT6KXLT-IEC SRT6KRMXLT-IEC	Input Output	208/240 Vac	33 A 29 A	50 A/2-pole	6 AWG

SRT5KXLI/SRT6KXLI models	
Input connections	Single phase: Wire to L, N, 
Output connections	Wire to L, N 

System	Wiring	Voltage	Current full load, nominal	External input circuit breaker, (typical)	Wire size, typical
SRT5KXLI SRT5KRMXLI	Input	220/230/240 Vac	24 A	40 A/2-pole	6 mm ²
	Output				
SRT6KXLI SRT6KRMXLI	Input	220/230/240 Vac	30 A	50 A/2-pole	10 mm ²
	Output		28 A		

SRT5KRMXLW-HW	
Input connections	Single phase: Wire to L, L2/N, 
Output connections	Wire to L1, L2/N 

System	Wiring	Voltage	Current full load, nominal	External input circuit breaker, (typical)	Wire size, typical
SRT5KRMXLW-HW	Input	208/220/ 230/240 Vac	26 A	40 A/2-pole	6 mm ² (8 AWG)
	Output		24 A		

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.
- The UPS contains internal and external batteries that may present a shock hazard even when disconnected from the mains.
- 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.
- Do not use the UPS as a safety disconnect.

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

Note: The UPS 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 internal battery module. See Installation manual for details.
2. Connect equipment to the outlets on the rear panel of the UPS.
Refer to “Controllable Outlet Groups” on page 23.
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 18.

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.

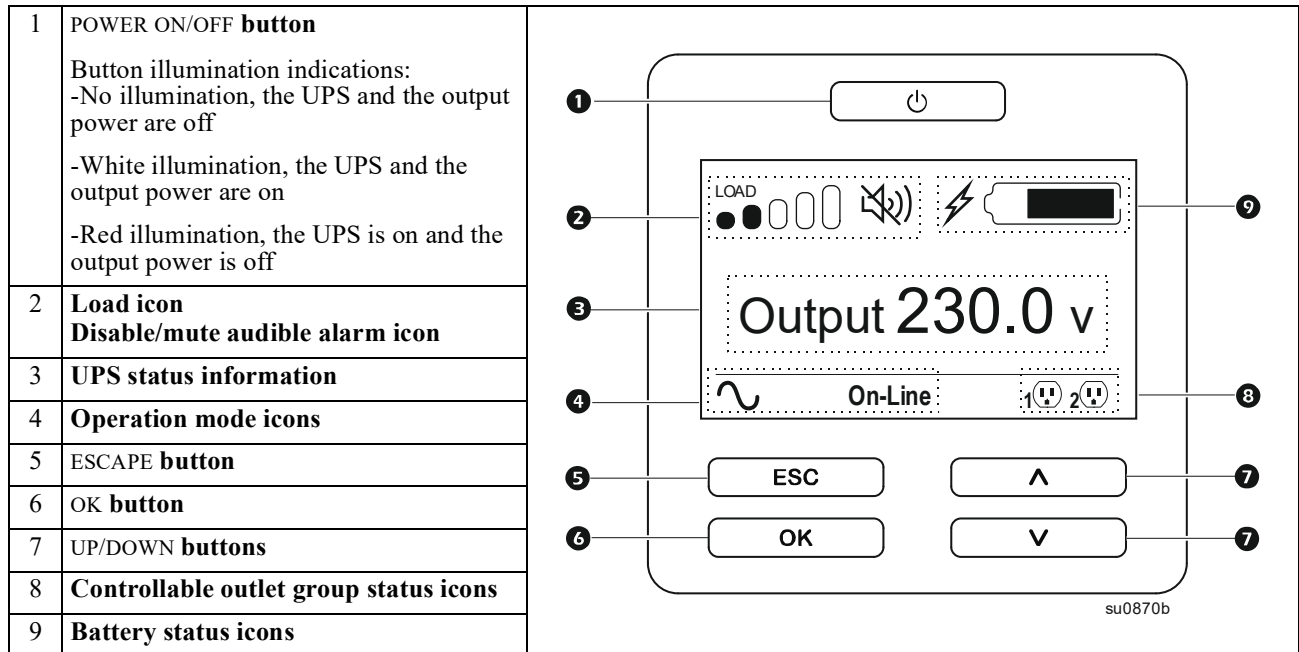
The display panel will illuminate and the **Power ON/OFF** button will illuminate red.

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 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 AC power has been turned off the UPS will continue operating on battery power for a short period of time. To remove power completely press the **Power ON/OFF** button. Follow the prompt to select Internal Power Off, then press OK.


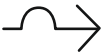



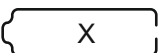





UPS Display Interface



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.

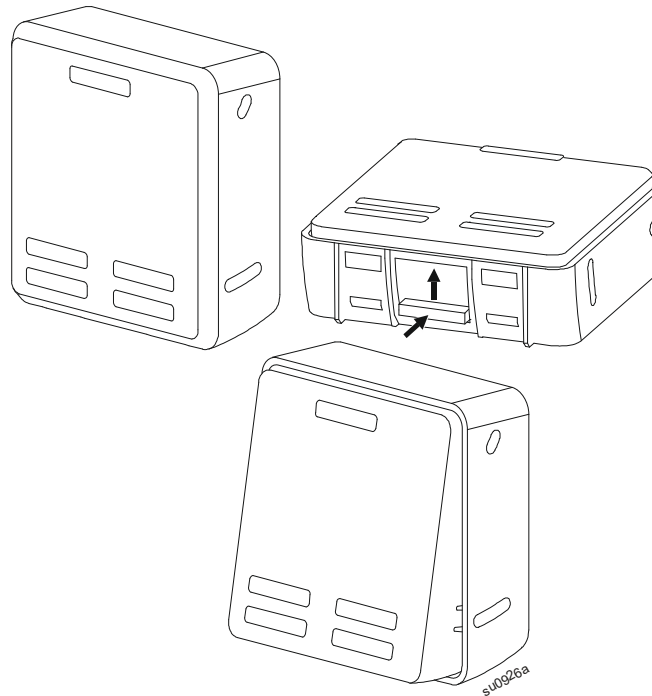
The icons on the LCD display interface screen may vary depending on the installed firmware version.	
	Load icon: The approximate load capacity percentage is indicated by the number of load bar sections illuminated. Each bar represents 16% of the load capacity.
	Mute icon: Indicates the audible alarm 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. <ul style="list-style-type: none"> • 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.
	Green mode: When in Green mode mains power is sent directly to the load. 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. When enabling Green mode consideration should be given to devices that may be sensitive to power fluctuations.
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	
	Controllable Outlet Group Power Available: The number next to the icon identifies the specific outlet groups that have available power. Flashing icon indicates the outlet group is turning from OFF to ON with delay.
	Controllable Outlet Group Power Not Available: The number next to the icon identifies specific outlet groups that do not have available power. Flashing icon indicates the outlet group is turning from ON to OFF with delay.
Battery Status Icons	
	Battery Charge Status: Indicates the battery charge status.
	Battery Charge In Progress: Indicates the battery is charging.

LCD display interface angle adjustment

The angle of the LCD display 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 display interface screen out. An audible click will be heard when the screen reaches the maximum angle.



Menu overview

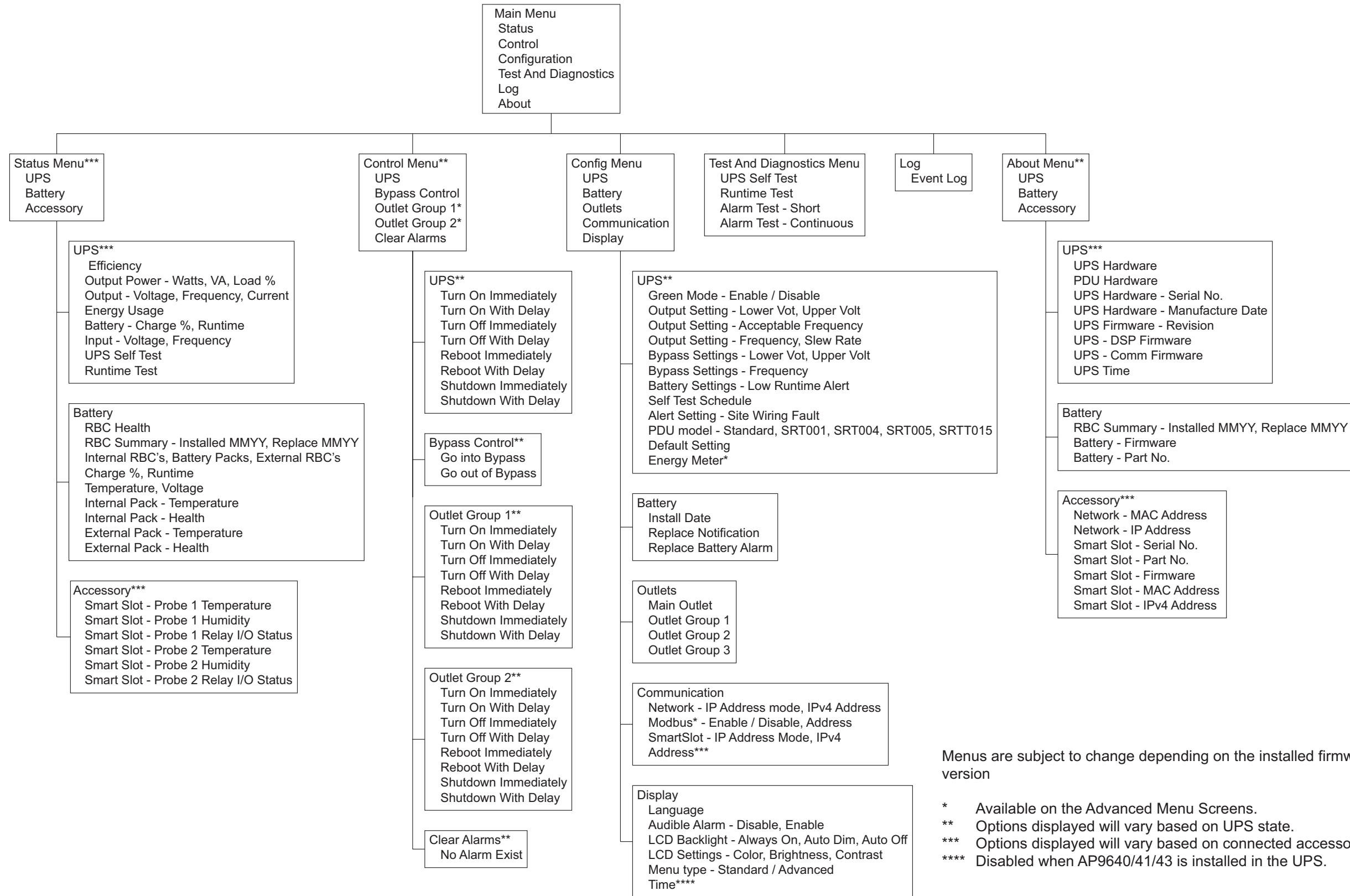
The UPS Display Interface has **Standard** and **Advanced** menu screens. The preference for **Standard** or **Advanced** menu selections is made during initial installation and can be changed at any time through the **Configuration** menu.

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 is installed in the UPS.

Configuration

UPS Settings

There are three ways to select UPS configuration options.


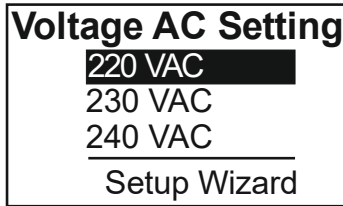
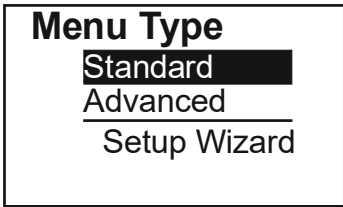
1. The first time the UPS is turned on the **Setup Wizard** screen will open. On each menu screen select the desired settings. Press OK after each UPS setting is selected.

Note: The UPS will not turn on until all of the settings have been configured.

1. **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 18 and “UPS Menu Overview” .
2. Configure settings using an external interface, such as the Network Management Web interface.

Startup configuration

Note: The configuration menu options vary according to the UPS models.

Function	Description
	<p>Select the language required for the display interface.</p> <p>Language options will vary by model and firmware version.</p> <p>Options:</p> <ul style="list-style-type: none"> • English • Francais • Italiano • Deutsch • Espanol • Portugues • Japanese • Russian
	<p>Select the output voltage.</p> <p>Options will vary by model.</p> <p>Options:</p> <ul style="list-style-type: none"> • 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>

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 UPS	Green Mode	Disabled	Disable Enable	Disable or enable Green mode operation
	AC Setting	NA (see description)	XLW models: 208 V, 220 V, 230 V, 240 V XLI models: 220 V, 230 V, 240 V XLT models: 208 V, 240 V	Set the output voltage for the UPS. This setting can only be changed when the UPS output is off. These settings may vary depending on the UPS 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. If the output voltage goes outside the acceptable range the UPS will switch from Green mode to On-Line mode or to Battery mode.
	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 240 V - 264 to 270 V	
	Output Frequency	Auto 50/60 ± 3Hz	Auto 50/60 ± 3 Hz 50 ± 0.1 Hz 50 ± 3.0 Hz 60 ± 0.1 Hz 60 ± 3.0 Hz	Set the output frequency for the UPS.
	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	208 V - 160 to 184 V 220 V - 160 to 198 V 230 V - 160 to 207 V 240 V - 160 to 216 V	If the UPS input voltage is between the lower acceptable voltage and the higher acceptable voltage, the UPS can enter Bypass mode when enabled.
	Bypass Upper Acceptable Voltage	250 V for 208 V output 255 V for 220 V output 265 V for 230 V output 270 V for 240 V output	208 V - 220 to 250 V 220 V - 242 to 264 V 230 V - 253 to 270 V 240 V - 264 to 270 V	
	Bypass Setting Acceptable Frequency	Wider Frequency 47 - 63 Hz	• 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.
	Self Test Schedule	Startup + every 14 days since last test	Never Startup Startup + 14 days Startup + 7 days	This is the interval at which the UPS will execute a Self Test .

	Parameters	Default Value	Options	Description
Config Menu UPS	PDU Model	Standard	5KVA: <ul style="list-style-type: none"> • XLI Model - SRT001 • XLW Model - SRT004 • XLT Model - SRT001, SRT004 • SMRT5KRMXLW-HW Model - SRT015 6KVA: XLT Model - SRT005	Select the PDU model installed in the UPS for proper operation of the PDU. See the user documentation for the PDU models SRT001, SRT004, SRT005, SRT015 for details.
	Default Setting	No	Yes/No	Allows the user to restore the UPS factory default settings.
	Reset Energy Meter	No	Yes/No	The Energy Meter stores information on UPS output energy usage. The Reset feature allows the user to reset the Energy Meter to 0 kWh.
Config Menu Battery	Install Date	Battery Installation Date	Month-Year	Enter the installation date of the RBCs.
	Replacement Notification Time	183 days	<ul style="list-style-type: none"> • 0-360 days • -1 	To set the Near End of Life alarm, select the number of days before the estimated battery end of life. When this date is reached the UPS will emit an audible alarm and a message will appear on the display interface screen. Example: Using the default value, the Near End of Life alarm will occur 183 days before the estimated end of life date. To disable the notifications select -1 .
	Replacement Battery Alarm Reminder	14 days	<ul style="list-style-type: none"> • 0-180 days • -1 	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. To disable the notifications select -1 .
Config Menu Display	Language	English	English Francais Italiano Deutsch Espanol Portugues Japanese Russian	Select the language required for the display interface. Language options will vary by model and firmware version.
	Audible Alarm	Enabled	Disable Enable	When audible alarms are disabled, the UPS will never emit an audible alarm.

	Parameters	Default Value	Options	Description
Config Menu Display	LCD Back Light	Auto Dim	Always On Auto Dim Auto Off	To conserve energy, the LCD back light illumination dims or turns off when no events are active. 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.
	LCD Setting	Optimal Values	Color Brightness Contrast	Adjust the brightness and contrast individually for each LCD back light color.
Config Menu Display	Menu Type	User Choice	Standard Advanced	The Standard menus include the most commonly used options. The Advanced menu options include all parameters.
	Time	UTC time Universal Time Coordinated (UTC) is a coordinated time scale, maintained by the Bureau International des Poids et Mesures (BIPM)]	DD-MMM-YYYY HH:MM:SS am/pm	For non-NC models only: Scroll through the fields to set the time. Note: Not applicable when AP9640/41/43 Network Management Card (NMC) is connected to the UPS.
Config Menu Outlets	Power On Delay	0 seconds	0-1800 seconds	Select the amount of time the controllable outlet groups will wait between receiving the command to turn on and actual startup.
	Power Off Delay	90 seconds	0-32767 seconds	Select the amount of time the controllable outlet groups will wait between receiving the command to shutdown and actual shutdown.
	Reboot Duration	8 seconds	4-300 seconds	Select the amount of time the controllable outlet groups will remain off before the UPS will restart.
	Minimum Return Runtime	0 seconds	0-32767 seconds	Select the amount of battery runtime that must be available before the controllable outlet groups will turn on using battery power, after a shutdown.
	Loadshed On Battery	Disable	Disable Enable	To conserve battery power the UPS can disconnect power from controllable outlet groups not in use. To configure the disconnect delay time for this feature use the Loadshed Time On Battery setting.
	Loadshed Time On Battery	5 seconds	5-32767 seconds	Select the amount of time the controllable outlet groups will be allowed to function on battery power before shutdown.
	Loadshed On Runtime	Disable	Disable Enable	To conserve battery power the UPS can disconnect power from controllable outlet groups when the Loadshed Runtime threshold is reached.

	Parameters	Default Value	Options	Description
Config Menu Outlets	Loadshed Runtime	0 seconds	0-3600 seconds	When the selected runtime threshold is reached the UPS will shutdown the controllable outlet groups.
	Loadshed 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 condition has been corrected.
Config Menu Network Manage	IP Address Mode		Manual, DHCP, BOOTP	Refer to the Network Management Card 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 19.

The controllable outlet groups can be configured to independently turn off, turn on, shutdown, 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 a 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 shutdown** when certain conditions occur, based on user configurations set using the Config Menu Outlets menus. Refer to “Configuration” on page 18

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 19.
 - 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. 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

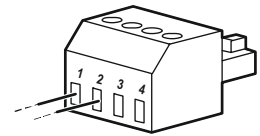
- Adhere to all national and local electrical codes.
- Wiring must be performed by a qualified electrician.
- Always connect the UPS to a grounded outlet.

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.

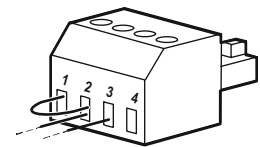
Note: Pin 1 is the power source for the EPO circuit, it provides a few milliampere of 24 V power.

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 mains 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.



Network Management Interface

Introduction

The UPS has a network port and console port that can be used to access the Network Management Interface. The Network Management Interface is very similar to an AP9641 Network Management Card (NMC) that is integrated into a UPS with one universal input/output port.

The Network Management Interface and the AP9641 NMC have the same firmware, operation modes and interaction with other APC by Schneider Electric products such as PowerChute Network Shutdown.

For network-based, graceful, unattended shutdown of your physical servers and virtual machines, it is highly recommended that you install the latest version of PowerChute™ Network Shutdown. Learn more and download for free from [https:// contact sales person/pens](https://contact.sales.person/pens).

Refer to the Network Management Card installation manual supplied with this product.

To know more about the security on your APC UPS Network Management Card, visit [https:// contact sales person/secure-nmc](https://contact.sales.person/secure-nmc).

To access all the network management documentation and download firmware updates, configuration wizards and MIB, visit [https:// contact sales person/upsnmc](https://contact.sales.person/upsnmc).

Features

The Network Management Interface allows the UPS to function as a web based, IPv6 ready product.

The Network Management Interface can manage the UPS using multiple open standards such as:



Hypertext Transfer Protocol (HTTP)	Hypertext Transfer Protocol over Secure Sockets layer (HTTPS)
Simple Network Management Protocol versions 1 and 3 (SNMPv1, SNMPv3)	Modbus TCP, BACNet, EAPOL Enterprise Security Protocol.
File Transfer Protocol (FTP)	Secure Copy (SCP)
Telnet	Secure SHell (SSH)
RADIUS	Syslog

The Network Management Interface:

- Connects to the network through a 10/100/1000 Base-T Network Port
- Enables you to extract event logs, data logs, ini files, and loading the UPS and NMC firmware updates through the USB Host Port.
- Provides UPS control and **Self Test** scheduling features.
- Provides data and event logs.
- Enables you to set up notifications through event logging, e-mail, and SNMP traps.
- Provides support for PowerChute Network Shutdown.
- Supports using a Dynamic Host Configuration Protocol (DHCP) or BOOTstrap Protocol (BOOTP) server to provide the network (TCP/IP) values.
- Supports use of EcoStruxure IT.
- Provides the ability to export a user configuration (.ini) file from a configured UPS, to one or more unconfigured UPS without conversion to a binary file.
- Provides a selection of security protocols for authentication and encryption.

- Communicates with EcoStruxure IT.
- Supports one universal input/output port for connection to a:
 - Temperature probe, AP9335T (supplied)
 - Temperature/humidity sensor, AP9335TH (optional)
 - Relay input/output connector that supports two input contacts and one output relay
 - AP9810 Dry Contact I/O Accessory (optional)

Related Documents

For related documents refer APC by Schneider Electric Web site, contact sales person

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/Interface, to see the address.

To setup 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 for setup instructions.

Smart Battery Management

Definitions

- **Battery Module:** A string of battery cells arranged to produce a battery assembly with a connector.
- **Replaceable Battery Cartridge (RBC):** An APC battery cartridge consisting of two battery modules. Replacement RBCs can be ordered from the APC web site, contact sales person.
- **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 warranty.

Features

Smart Battery Management provides the following features:

- Monitors and informs the user of the health of each RBC.
- Monitors and shows on the UPS Display Interface screen, the date for the end of useful life for each RBC.
- The UPS emits an audible alarm and shows a message on the UPS Display Interface screen to indicate the estimated battery end of life. On the UPS Display Interface screen the user can set the number of days before the audible alarm is heard and the message appears on the UPS Display Interface screen.
- Automatically detects the addition or removal of XLBPs and RBCs.
- Monitors the internal temperature of each XLBP and automatically adjusts the battery charging.

Maintenance

- **RBC maintenance:** The APC RBC uses sealed lead acid battery cells and does not require maintenance.
- **Runtime Test (Calibration):** This should be performed anytime the steady state load is changed significantly, for example a new server is added to or removed from the UPS load.
- **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 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:** An alert message will appear on the UPS display interface screen when each RBC is approaching the end of its useful life. For configuration details refer to **Replacement Notification Time** and **Replacement Battery Alarm Time**. The estimated replacement date for each RBC is available through the UI.
- **Needs replacement notification:** The UPS display interface screen shows when RBC replacement is required. The RBC must be replaced as soon as possible. When an RBC requires replacement, the UPS display interface may recommend that additional RBCs be replaced if they will soon reach the end of their useful life.

Note: Continued operation after end of useful life notification may cause damage to the batteries.

- **Recycling:** Remove the RBC from the XLBP. Recycle the RBC. Do not disassemble an RBC.

Replace the RBCs in a UPS

An RBC should only be disconnected or removed from the UPS temporarily as part of the battery replacement procedure.

- Disconnect all connected battery modules in the UPS. Slide the RBCs out of the UPS.
- Slide the new RBCs into the UPS and connect the battery modules to the UPS.
- Securely connect each battery module. Press the battery connector into the UPS until it is firmly connected. A battery that is not fully connected will cause erratic UPS operation, abnormal alert messages and connected equipment may not receive battery power during power outages.
- After installing the RBC, the UPS display interface may prompt the user to verify the status of the replaced battery modules. If the battery module is new, respond YES. If the battery module is not new, respond NO.

Recommended actions after installing new RBCs

- Verify that the UPS is connected to input power and the output power is turned on. See “Operation” on page 12 for instructions.
- Perform a **UPS Self Test**.
- Verify on the UPS display interface that the installation dates for the replaced RBCs are set to the current date.
The installation dates can be changed manually on the UPS display interface.
If all RBCs have been replaced at the same time, all installation dates can be changed simultaneously.
For configuration details refer to “Install Date” on page 20.
- Allow the system to charge for 24 hours to ensure full runtime capability.

XLBP installation and replacement

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

Troubleshooting

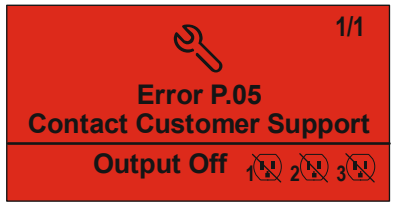
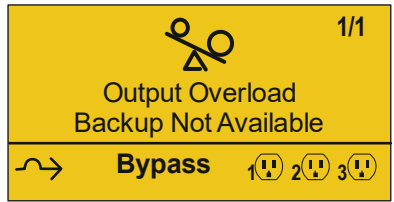
Use the table below to solve minor installation and operation problems.

Refer to the APC web site, contact sales person for assistance with complex UPS problems.

The UPS features firmware that can be upgraded.

Go to the APC web site, contact sales person/Support, or contact your local Customer Care Center for 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 UPS and to the mains power supply.
The UPS display interface screen shows very low or no mains power.	Check the mains power supply to verify acceptable power quality.
The UPS has detected an internal error.	The UPS Display Interface screen will show a message to identify the alert and corrective action.
UPS emits an audible alarm	
Normal UPS operation when running on battery power.	The UPS is operating on battery power. Refer to the status of the UPS as shown on the UPS Display Interface screen. Press any key to mute all audible alarms.
The UPS emits an audible alarm and has a red or amber back light on the UPS Display Interface screen.	The UPS has detected an error. Refer to the display interface screen for information.
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.	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 Replace Battery message is not displayed.
The UPS is experiencing an overload condition.	The connected equipment exceeds the specified maximum load. Refer to the APC by Schneider Electric web site, contact sales person for product specifications. 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.
UPS operates on battery power while connected to mains power	
The input circuit breaker has tripped.	Reduce the load on the UPS. Disconnect nonessential equipment and reset the circuit breaker. Check the circuit breaker rating for the connected equipment.
There is very high, very low, or distorted input line voltage.	Navigate to the UPS Display Interface screen that shows input voltage. Verify that the input voltage is within specified operating limits. If no input voltage is indicated on the UPS Display Interface screen, contact Customer Support through the APC by Schneider Electric web site, contact sales person.
The UPS Display Interface screen shows the message Waiting for Minimum Runtime.	The UPS has been configured to operate for a specified period of runtime. The setting can be changed through the Config/UPS menus.
UPS Display Interface Status screen shows Overload and the UPS emits a sustained audible alarm	
The UPS is experiencing an overload condition.	The connected equipment exceeds the maximum load rating for the UPS. 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.

Problem and Possible Cause	Solution
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 detected an error. The UPS has automatically switched to Bypass mode.	The UPS Display Interface screen will show a message to identify the alert and corrective action.
UPS Display Interface is red or amber and shows an alert message The UPS emits a sustained audible alarm	
The UPS has detected a problem during normal operation.	Follow the instructions on the UPS Display Interface screen. Press any key to mute all audible alarms.
The UPS Display Interface screen shows the message Disconnected Battery .	Be sure the battery cables are securely connected. Perform a UPS Self Test to be sure the UPS detects all connected batteries. To perform a UPS Self Test use the UPS Display Interface menu option Test and Diagnostics .
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.</p> 	Do not attempt to use the UPS. Turn the UPS off and have it serviced immediately.
<p>The UPS is experiencing an overload condition.</p> 	Reduce the load on the UPS. Disconnect nonessential equipment.
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 mains 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 web site, contact sales person.
 - a. Note the model number and serial number and the date of purchase. The model and serial numbers are located on the rear panel of the unit and are available through the LCD display on select models.
 - b. Call 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#).
 - c. If the unit is under warranty, the repairs are free.
 - d. Service procedures and returns may vary internationally. For country specific instructions refer to the APC by Schneider Electric web site, contact sales person.
3. Pack the unit properly to avoid damage in transit. Never use foam beads for packaging. Damage sustained in transit is not covered under warranty.
Note: Before shipping, always disconnect battery modules in a UPS or external battery pack. 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 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 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 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 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 web site: contact sales person. 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.