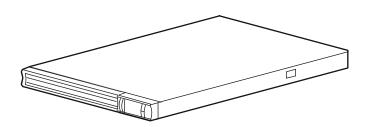
# **Smart-UPS™ Uninterruptible Power Supply**

SMT1500RMI1U 230 Vac Rack-Mount 1U

# **User Manual**







# **Legal Information**

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# **General Information**

#### IMPORTANT SAFETY INSTRUCTIONS

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



This is the "Read user manual" symbol. Read the user documentation carefully and look at the UPS to become familiar with the it before trying to install or operate it.

Read the Safety Guide supplied with the UPS to become familiar with the safety requirements before trying to install or operate the UPS.

Read the instructions in this manual carefully to become familiar with the UPS.

The following special messages may appear throughout this document or on the UPS 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" product 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, **can result in** death or serious injury.

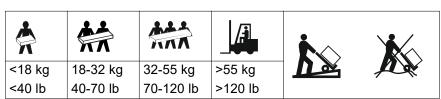
# **CAUTION**

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

## NOTICE

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

#### **Product Handling Guidelines**



Electrical equipment should be installed operated and maintained only by qualified personnel. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material.

A qualified person is one who has skills and knowledge related to the construction, installation, and operation of electrical equipment and has received safety training to recognize and avoid the hazards involved.

# Safety and General Information

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

Additional safety information can be found in the Safety Guide supplied with this unit.

- Adhere to all local and national electrical codes.
- · Do not work alone under hazardous conditions.
- · All wiring must be performed by a qualified electrician.
- Changes and modifications to this unit not expressly approved by Schneider Electric could void the warranty.
- · UPS is intended for indoor use only.
- Always install peripheral equipment above the UPS in rack-mount configurations.
- The UPS is intended for IT environments. Do not operate this unit in direct sunlight, in contact with fluids, or where there is excessive dust or humidity.
- Be sure the air vents on the UPS are not blocked. Allow adequate space for proper ventilation.
- For a UPS with a factory installed power cord, connect the UPS power cable directly to a wall outlet. Do not use surge protectors or extension cords.
- The UPS is heavy. Always practice safe lifting techniques adequate for the weight of the UPS.
- The battery is heavy. Remove the battery before installing the UPS in a rack.

#### **Battery Safety**

#### WARNING

#### RISK OF HYDROGEN SULPHIDE GAS, EXCESSIVE SMOKE AND FIRE

- Replace the battery at least every 5 years or at the end of its service life, whichever is earlier.
- Replace the battery immediately when the UPS indicates battery replacement is necessary.
- Replace batteries with the same number and type of batteries as originally installed in the equipment.
- Replace the battery immediately when:
  - the UPS indicates a battery over-temperature condition
  - there is evidence of electrolyte leakage
  - The UPS indicates any battery related alarm on a battery near the end of its service life

For any of these conditions, 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)
  that are older than one year, when installing additional battery packs or
  replacing the battery module(s).

# Failure to follow these instructions can result in death, or serious injury and equipment damage.

- Batteries typically last for two to five years. Environmental factors impact battery
  life. Elevated ambient temperatures, poor quality utility power, causing frequent
  short duration discharges will shorten battery life. Batteries should be replaced
  before end of life.
- 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.
- Servicing of batteries should be performed or supervised by personnel knowledgeable about batteries and required precautions.
- 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.
- CAUTION: Failed batteries can reach temperatures that exceed the burn thresholds for touchable surfaces.
- CAUTION: A battery can present a risk of electrical shock and high short circuit current. The following precautions should be observed when working on batteries:
  - Disconnect the charging source prior to 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.

#### **De-energizing safety**

- The UPS contains internal battery modules and may present a shock hazard even when disconnected from the branch circuit (mains).
- Before installing the UPS or any accessory be sure that the:
  - Input circuit breaker is in **OFF** position.
  - · Internal UPS battery modules are removed.

#### **Electrical safety**

- · Do not handle any metallic connector before power has been disconnected.
- For models with a hardwired input, the connection to the branch circuit (mains) must be performed by a qualified electrician.
- In order to comply with the EMC regulations, 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, with or without a yellow stripe.
- The leakage current for a pluggable, Type A UPS may exceed 3.5 mA when a separate ground terminal is used.
- The UPS input ground conductor must be properly bonded to protective earth at the service panel.
- If the UPS input power is supplied by a separately derived system, the ground conductor must be properly bonded at the supply transformer or motor generator set.

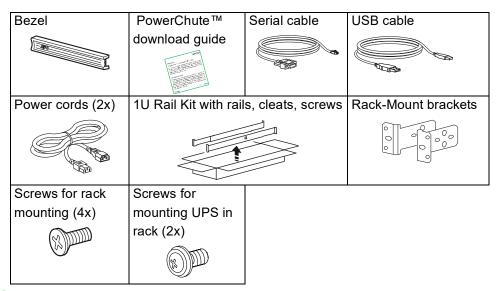
#### **General information**

- The model and serial numbers are located on a small, rear panel label. For some models, an additional label is located on the chassis under the front bezel.
- Always recycle used batteries. Recycle the packaging materials or save them for reuse.

# Radio Frequency Warning

**WARNING:** This is a category C2 UPS product. In a residential environment, this product may cause radio interference, in which case the user may be required to take additional measures.

# **Inventory**



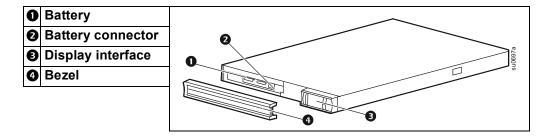
# **Product Description**

The APC<sup>™</sup> by Schneider Electric Smart-UPS<sup>™</sup> is a high performance uninterrupted power supply (UPS). The UPS helps to protect electronic equipment from utility power blackouts, brownouts, sags, and surges, small utility power fluctuations and large disturbances. The UPS also provides battery backup power for connected equipment until utility power returns to specified levels or the batteries are fully discharged.

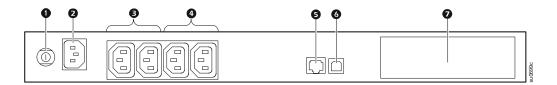
This user manual is available on our web site, www.se.com.

### **Product Overview**

#### Front panel features



#### Rear panel features



- Circuit breaker/ Overload protection
- **Q** UPS input
- Switched outlet group 1
- 4 Switched outlet group 2
- Serial port (RJ45): Use this serial port to connect to a computer for monitoring or gracefully shutting down the operating system using PowerChute software. Refer to "Connect and Install Management Software" on page 15
- **6 USB port:** Use this USB port to connect to a computer for monitoring or gracefully shutting down the operating system using PowerChute software. Refer to "Connect and Install Management Software" on page 15

NOTE: Serial and USB communication can not be used simultaneously.

SmartSlot for optional accessory card

# **Specifications**

For additional specifications, refer to the APC by Schneider Electric Web site at www.se.com.

Weight	UPS + Battery Pack	24 kg (53 lb)		
Specifications	Battery Pack	10.5 kg (23 lb)		
Temperature Operating		0 to 40 °C (32 to 104 °F)		
	Storage	-15 to 45 °C (5 to 113 °F)		
		Charge UPS battery every six months		
Maximum	Operating	3,000 m (10,000 ft)		
Elevation	Storage	15,000 m (50,000 ft)		
Humidity		0% to 95% relative humidity, non-condensing		
International Protection Code		IP20		
Pollution degree	)	2		
Overvoltage category		II		
Applicable power grid power distribution system		TN Power System		
Applicable standard		IEC 62040-1		

## Installation

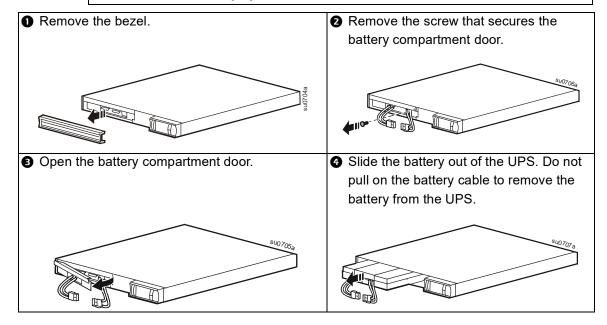
#### Remove the Battery

## **CAUTION**

#### DAMAGE TO EQUIPMENT OR PERSONNEL

- The equipment is heavy. Always practice safe lifting techniques adequate for the weight of the equipment.
- The combined weight of the UPS and the battery pack is 24 kg (53 lb).
   The battery pack weighs 10.5 kg (23 lb). Remove the battery pack before installing the UPS in a rack.

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



#### **Rack Installation**

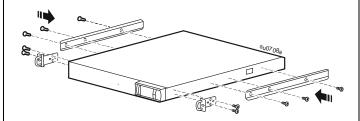
#### **CAUTION**

#### **RISK OF FALLING EQUIPMENT**

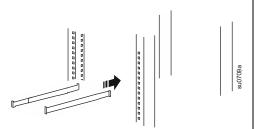
- The equipment is heavy. Always practice safe lifting techniques adequate for the weight of the equipment.
- Always use the recommended number of screws to secure brackets to the UPS.
- Always use the recommended number of screws to secure the UPS to the rack.
- · Always install the UPS at the bottom of the rack.
- Always install the external battery pack below the UPS in the rack.
- Place the rack in the location where the equipment will be used.
- Do not move the rack once the UPS is installed.

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

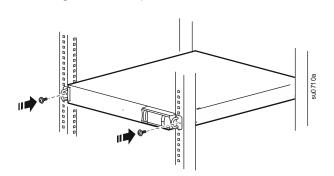
• Secure the rail cleats and brackets to the UPS. Use two 2 Install the 1U Rail Kit included with the screws for each rack-mount bracket and three screws for each rail cleat.



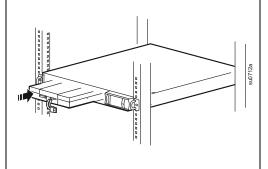
UPS. Refer to the installation instructions provided with the rail kit.



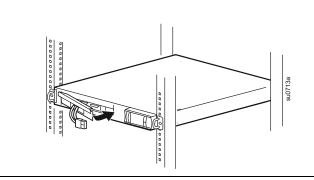
3 Slide the UPS into the rack. Secure the brackets to the rack using the screws provided.



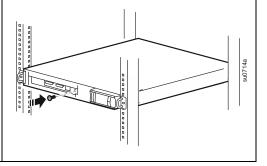
4 Slide the battery into the UPS.

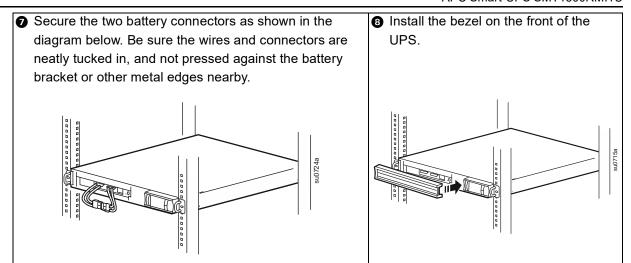


Install the battery compartment door.



6 Secure the door with the screw previously removed.





#### **Battery Replacement**



Always recycle used batteries.

For information on recycling a used battery, refer to the Battery Disposal Information sheet included with the replacement battery.

Replace used batteries with APC by Schneider Electric approved batteries. To order a replacement battery go to the APC by Schneider Electric Web site, www.se.com.

Battery life is highly dependent on temperature and use. To identify when to replace batteries, Smart-UPS have a predictive battery replacement date indicator in the "About" menu and automatic (and configurable) self-tests.

Proactively replace batteries to maintain the highest availability. To ensure protection and high performance, use only genuine APC Replacement Battery Cartridges (RBC™). The APC RBC contains instructions for battery replacement and disposal. To order a replacement battery go to the APC by Schneider Electric Web site, www.se.com.

UPS Model Replacement Battery		Battery Module	
SMT1500RMI1U	APCRBC88	Lead acid, 1 module, 36 Vdc	

# **Operation**

#### **Connect Equipment**

## **CAUTION**

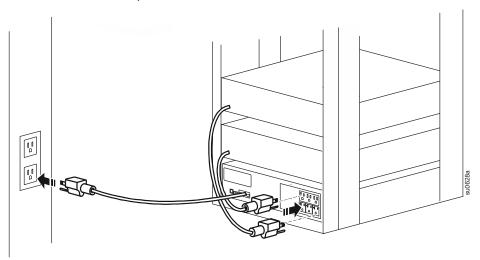
#### **RISK OF ELECTRIC SHOCK**

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

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

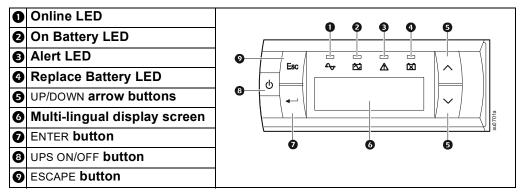
**NOTE:** The UPS will charge to 90% capacity in the first three hours of normal operation. **Do not expect full battery runtime capability during this initial charge period.** 

- 1. Connect the protected equipment to the outlets on the rear panel of the UPS.
- 2. Connect the UPS to the building utility power. Connect the UPS to a two pole, three wire, grounded source only.
- 3. To use the UPS as a Master On/Off switch, turn on the equipment that is connected to the UPS.
- 4. To turn on the UPS and all connected equipment, press the UPS ON/OFF button on the front panel of the UPS.
- 5. Refer to "Switched Outlet Groups" on page 19 for details on how to use the Switched Outlet Groups.



## Display Interface

#### Overview



#### Display interface operation

Use the UP/DOWN arrow buttons to scroll through the main menu options.

Press ENTER to view the sub menus under each main menu option.

Press ESCAPE to exit a sub menu and return to a main menu.

#### Menu overview

The display interface has Standard and Advanced menu screens. The preference for Standard or Advanced menu options is made during initial installation and can be changed at any time using the Configuration menu.

Standard menus are the most commonly used menus. The default screen shows Load and Battery Capacity bar graphs.

The Advanced menus include more status information and additional sub menus. The default screen shows scrolling status information.

**NOTE:** Actual menu screens may differ by firmware revision.

Main Menu	Display Description	Standard Menu	Advanced Menu
Status	Operating mode*	X	X
	Efficiency	X	X
* A -l	Load power (W)*	X	X
* Advanced	Load power (VA)*	X	X
menu Status	Load current		X
items	Load energy meter		X
displayed as	Battery charge state%	X	X
scrolling	Battery runtime*	Х	X
information	Battery voltage	X	X
	Battery temperature		X
	Input voltage and frequency*	X	X
	Output voltage and frequency*	X	X
	Last transfer reason*	X	X
	Last UPS self test result	X	X
	Outlet group status*		X
	NMC IP address (if applicable)		X
Control	UPS control		X
	Outlet Group control		X

Main Menu	Display Description	Standard Menu	Advanced Menu
Configuration	Language	х	x
	Output voltage setting (if applicable)		x
	Power quality	х	X
	Menu type	X	X
	Audible alarms	x	X
	Display mode	x	x
	Sensitivity		X
	Low voltage transfer points		X
	High voltage transfer points		X
	Low battery alert threshold		x
	Automatic self test interval		X
	Battery install date	x	x
	Reset energy meter		X
	Enter set-up wizard		x
	Perform firmware update		X
	(UPS output must be off)		
	Reset to factory defaults	x	x
	Outlet group configuration		X
	NMC configuration (if applicable)		X
Test &	UPS self test	x	x
Diagnostics	UPS alarms test	x	x
	UPS calibration test	x	x
Logs	Last 10 transfer events (if applicable)		x
	Last 10 alert events (if applicable)		x
About	Model identification	x	X
	Part number	x	x
	Serial number	x	x
	UPS manufacture date	x	x
	Replace battery part number	x	x
	Battery install date	x	X
	Replace battery date	x	X
	UPS firmware revision	X	x
	NMC Information - part/serial/version		X
	numbers/manufacture date/MAC		
	address/ firmware revision		
	(if applicable)		

# **Connect and Install Management Software**

Install PowerChute<sup>™</sup> Serial Shutdown software on all servers connected to your Smart-UPS, for graceful operating system shutdown, control and monitoring the Smart-UPS. Visit https://www.se.com/pcss for more information and downloading the software.The following diagram is a representation of a typical server installation.

USB Port

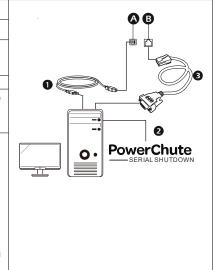
Serial Port

**NOTE:** For location of the port, refer to "Rear panel features" on page 8.

- Connect the USB cable from the rear of the UPS to the protected device such as a server.
- Programmer or other device with an operating system, download and install latest version of the PowerChute Serial Shutdown from

https://www.se.com/pcss. PowerChute Serial Shutdown supports graceful shutdown in the event of an extended power outage.

**NOTE:** PowerChute is a 64-bit only application and cannot be installed on a 32-bit operating system.



A built-in Serial port (RJ45) is also available for additional communication options with serial cable.

**NOTE:** Serial port and USB port cannot be used at the same time.

# Configuration

## **UPS Settings**

## Start up settings

At initial start up use the Setup Wizard to configure the following settings.

**NOTE:** During start up, use the display interface to configure these settings. If nothing is selected, the unit will use the default settings.

Function	Factory Default	Options	Description
Language	English	• English	The language for the display
		French	interface.Language options will vary
		German	by model
		• Spanish	
		• Italian	
		Portuguese	
		Japanese	
Output	230 Vac	• 220 Vac	UPS output must be off to configure
Voltage		• 230 Vac	this setting.
		• 240 Vac	
Local Power	Good	• Good	Select the desired utility input power
Quality		• Fair	quality.
		• Poor	Good: The UPS will go on battery power more often to provide clean power to connected equipment.
			Fair: The UPS will tolerate some voltage fluctuations before switching to battery power.
			Poor: The UPS will tolerate more voltage fluctuations and will go on battery power less often.
			The <b>Power Quality</b> setting will
			automatically change the high and
			low transfer points and the transfer
		_	sensitivity setting.
Menu Type	Standard	Standard	The Advanced menus include all
		Advanced	parameters. The Standard menus
			display a limited set of menus and
Date	UPS	mm-yyyy	options.  At initial start up, enter the current
Date	manufacture		date.
	date + 90 days		duto.
	date i 30 days		

## **General Settings**

Configuration settings may be changed at any time using the display interface or PowerChute software. This table provides a brief description of the general settings, for more detailed information on each of these parameters consult application note 80 at www.se.com

Function	Factory Default	Options	Description
High Transfer Point	253 Vac	242-276 Vac	To avoid unnecessary battery usage, the high and low transfer points can be
Low Transfer Point	207 Vac	186-216 Vac	adjusted.
			Set the transfer point higher if the AC voltage is chronically high.
			Set the transfer point lower if the AC voltage is chronically low.
			When the <b>Power Quality</b> setting is changed the high and low transfer points will automatically be adjusted.
			The transfer point options will change
Transfer Sensitivity	Normal	Normal     Reduced     Low	Set the sensitivity to a level that is appropriate for the connected equipment.
		Low	Normal: The UPS will go on battery power more often to provide clean power to the connected equipment.
			Reduced: The UPS will tolerate some voltage fluctuations before switching to battery power.
			Low: The UPS will tolerate more voltage fluctuations and will go on battery power less often.
			When the <b>Power Quality</b> setting is
			changed the transfer sensitivity will automatically be adjusted.
Low Runtime	120 sec	Value set in	The UPS will emit an audible alarm
Alert		seconds	when the remaining runtime has reached this level.
Date of Last	Date set at	Reset this da	te when the battery module is replaced.
Battery Replacement	factory		•
Audible Alarm	On	• On	The UPS will mute all audible alarms if
		• Off	this is set to Off or when any of the
Display Mode	Auto Dim	• Alwaya On	display buttons are pressed.
Display Wode	Auto Dilli	• Always On • Auto Dim /	The display interface remains continuously illuminated.
		Auto Off	The display interface dims for a few seconds after being inactive for two minutes before turning off.

Function	Factory Default	Options	Description
Auto Self-Test Interval	On start up and 14 days after each self-test.	<ul> <li>Last test + 14 days</li> <li>Last test + 7 days</li> <li>Start up+ 14 days</li> <li>Start up + 7 days</li> <li>On start up only</li> <li>Never</li> </ul>	The interval at which the UPS will execute a self-test.  The batteries must be charged to at least 70% capacity to perform a self-test.  "Start up" on these menus refers to any time the UPS is turned on.
Reset to Factory Default	No	• Yes • No	Restore the UPS factory default settings.

# **Switched Outlet Groups**

#### Overview

The UPS has two Switched Outlet Groups. Each can be configured to independently perform the following actions:

- Turn off: Disconnect power to connected equipment immediately and restore power to connected equipment only with a manual command.
- Turn on: Connect power to connected equipment immediately.
- Shutdown: Disconnect power, and automatically restore power when utility power becomes available.
- · Reboot: Shut down and restart.
- · Turn on or off in a specified sequence.
- · Automatically turn off or shut down when various conditions occur.

**NOTE:** If the Switched Outlet Groups are not configured, all of the outlets on the unit will provide battery backup power.

#### **Configure the Switched Outlet Groups**

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

#### **Customize Switched Outlet Groups**

Use the **Configuration** menu to change the Switched Outlet Group settings.

Function	Factory Default	Options	Description
Turn On	0 sec	Set the value	The amount of time the Switched Outlet
Delay		in seconds	Group will wait between receiving the
			command to turn on and the actual
			startup.
Turn Off	90 sec	Set the value	The amount of time that the Switched
Delay		in seconds	Outlet Group will wait between receiving
			the command to turn off and the actual
			shut down.
Reboot	8 sec	Set the value	The amount of time that the UPS must
Duration		in seconds	remain off before it will restart.
Minimum	0 sec	Set the value	The amount of battery runtime that must
Return Run		in seconds	be available before the UPS or Switched
Time			Outlet Group will turn on.

Function	Factory Default	Options	Description
Load Shed	Disabled	• Enable	When the unit switches to battery power,
Time		Disable	the UPS can disconnect power to the
On-Battery			Switched Outlet Group to save runtime.
Load Shed	1800 sec	Set the value	The amount of time the Switched Outlet
Time		in seconds	Group will continue function after the UPS
On-Battery			begins operating on battery.
Load Shed	Disabled	• Enable	When the battery runtime falls below the
Runtime		Disable	specified value, the Switched Outlet
Remain			Group will turn off.
Load Shed	120 sec	Set the value	Remaining runtime required for the
Runtime		in seconds	outlets to stay on.
Remain			
Load Shed	Disabled	• Enable	In the event of an overload (greater than
on Overload		Disable	100% output), the Switched Outlet Group
			will immediately turn off to conserve
			power for critical loads. The Switched
			Outlet Group will only turn on again with a
			manual command.

# **Troubleshooting**

Problem and Possible Cause	Solution			
The UPS will not turn on or the				
The unit has not been turned Press the UPS ON/OFF button once to turn on the				
on.	UPS.			
The UPS is not connected to	Be sure that the power cable is securely connected			
utility power.	to the unit and to the utility power supply.			
The input circuit breaker has	Reduce the load on the UPS, disconnect			
tripped.	nonessential equipment and reset the circuit			
inpped.	breaker.			
The unit shows very low or no	Check the utility power supply to the UPS by			
input utility voltage.	plugging in a table lamp. If the light is very dim,			
imput utility voltage.	check the utility voltage.			
UPS has detected an internal	Do not attempt to use the UPS. Unplug the UPS			
fault	and have it serviced immediately.			
	ry, while connected to utility power			
The input circuit breaker has	Reduce the load on the UPS, disconnect			
tripped.	nonessential equipment and reset the circuit			
	breaker.			
There is very high, very low, or	Move the UPS to a different outlet on a different			
distorted input line voltage.	circuit. Test the input voltage with the utility voltage			
	display. If acceptable to the connected equipment,			
	reduce the UPS sensitivity.			
UPS is beeping				
The UPS is in normal	None. The UPS is helping to protect the connected			
operation.	equipment.			
UPS does not provide expecte	ed backup time			
The UPS battery is weak due to	Charge the battery. Batteries require recharging			
a recent outage or is near the	after extended outages and wear out faster when			
end of its service life.	put into service often or when operated at elevated			
	temperatures. If the battery is near the end of its			
	service life, consider replacing the battery even if			
	the replace battery indicator is not yet illuminated.			
The UPS is experiencing an	Check the UPS load display. Unplug unnecessary			
overload condition	equipment, such as printers.			
Display interface LEDs flash s	equentially			
The UPS has been shut down	None. The UPS will restart automatically when			
remotely through software or	utility power is restored.			
an optional accessory card.				
The Alert LED is illuminated, tl	ne UPS displays a message and emits a constant			
beep				
UPS has detected an internal	Do not attempt to use the UPS. Turn the UPS off			
fault.	and have it serviced immediately.			
The Replace Battery LED is ill				
The battery has a weak charge.	Allow the battery to recharge for at least four hours.			
	Then, perform a self-test. If the detected problem			
	persists after recharging, replace the battery.			
The replacement battery is not	Be sure that the battery connector is securely			
properly connected.	connected.			

## 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.
- If the problem persists, contact APC by Schneider Electric Customer Support through the Web site, www.se.com.
  - a. Note the model number and serial number and the date of purchase. The model and serial numbers are located on the rear panel of the unit and are available through the display interface on select models.
  - Call APC by Schneider Electric Customer Support and a technician will attempt to solve the problem over the phone. If this is not possible, the technician will issue a Returned Material Authorization Number (RMA#).
  - c. If the unit is under warranty, the repairs are free.
  - d. Service procedures and returns may vary internationally. Refer to the APC by Schneider Electric Web site for country specific instructions.
- 3. Pack the unit in the original packaging whenever possible to avoid damage in transit. Never use foam beads for packaging. Damage sustained in transit is not covered under warranty.
  - a. Always DISCONNECT THE UPS BATTERIES before shipping. The United States Department of Transportation (DOT), and the International Air Transport Association (IATA) regulations require that UPS batteries be disconnected before shipping. The internal batteries may remain in the UPS, but must be disconnected.
- 4. Write the RMA# provided by Customer Support on the outside of the package.
- Return the unit by insured, prepaid carrier to the address provided by Customer Support.

# **Transport the unit**

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

# **Limited Factory Warranty**

Schneider Electric IT Corporation (SEIT), warrants its products to be free from defects in materials and workmanship for a period of two (2) years from the date of purchase. The SEIT obligation under this warranty is limited to repairing or replacing, at its own sole option, any such defective products. Repair or replacement of a defective product or parts thereof does not extend the original warranty period.

This warranty applies only to the original purchaser who must have properly registered the product within 10 days of purchase. Products may be registered online at warranty.apc.com.

SEIT shall not be liable under the warranty if its testing and examination disclose that the alleged defect in the product does not exist or was caused by end user 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: www.se.com. Select your country from the country selection drop down menu. Open the Support tab at the top of the web page to obtain information for customer support in your region. Products must be returned with transportation charges prepaid and must be accompanied by a brief description of the problem encountered and proof of date and place of purchase.

# **APC Worldwide Customer Support**

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

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

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As standards, specifications, and designs change from time to time, please ask for confirmation of the information given in this publication.

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