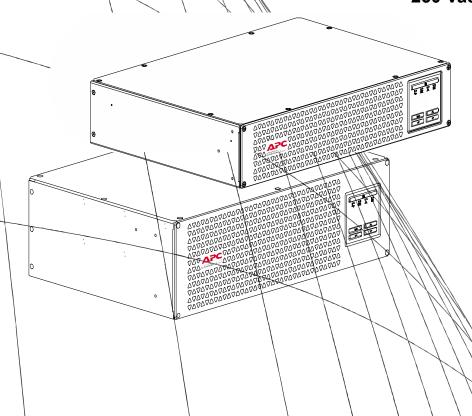


Operation Manual

Smart-UPS[™] Uninterruptible Power Supply

750/1000/1500 VA
Short-depth Rack-Mount with
Lithium-ion batteries and
APC™SmartConnect

230 Vac



Important Safety Messages

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

Read the instructions carefully 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 to either 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.

A 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.

A 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









>120 lb





Safety and General Information

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

General safety

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

Deenergizing safety

The UPS contains internal batteries and may present a shock hazard even when disconnected from the branch circuit (mains). Before installing or servicing the equipment check that the:

- Input circuit breaker is in the **OFF** position.
- · Internal UPS batteries are removed.

Electrical safety

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

A WARNING

RISK OF CHEMICAL HAZARD AND EXCESSIVE HEAT

- Recycle the UPS when the UPS battery fault is detected at the end of its service life. Power off the UPS
 and unplug it from the AC input.
- The battery is not user replaceable. Contact APC by Schneider Electric Worldwide Customer Support if there are defects in the product and the product is within warranty.

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

- The battery typically lasts for five to ten years. Environmental factors impact battery life. Elevated ambient temperatures, poor quality utility power, and frequent short duration discharges will shorten battery life.
- For longest battery performance, the ambient temperature should be maintained between 68° and 77°F (20° and 25°C).
- Replace the UPS immediately if the unit indicates battery error.
- Replace the UPS once the batteries have reached the end of their service life even if the UPS has not indicated that battery replacement is necessary.
- APC by Schneider Electric uses Lithium Ion batteries. Under normal use and handling, there is no contact with the internal components of the battery.
- Do not drive nails into the battery pack.
- Do not strike the battery pack with a hammer.
- Do not stand on the battery pack.
- Do not short circuit battery pack.
- Do not place or use the battery pack near heat or fire.
- Do not use a dropped, damaged or deformed battery pack.
- Do not use the battery pack to power other equipment.
- CAUTION: Before installing or replacing the batteries, remove conductive jewelry such as chains, wrist watches and rings. High energy through conductive materials could cause severe burns.
- CAUTION: Do not dispose of battery pack in a fire. The batteries may explode.
- CAUTION: Do not open or tamper with the battery enclosure. Doing so will expose the cell terminals which pose an energy hazard.
- CAUTION: Do not open or mutilate batteries. Released electrolyte is harmful to the skin and eyes. It may be toxic.
- CAUTION: A battery can present a risk of electric shock and burns by high short-circuit current.
- CAUTION: Failed batteries can reach temperatures that exceed the burn thresholds for touchable surfaces.

General information

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

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.

Specifications

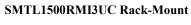
For additional specifications, refer to the APC Web site at www.apc.com.

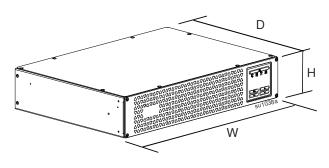
Environmental specifications

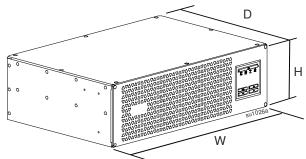
Tommonotumo	Operating	0° to 40° C (32° to 104° F)	
Temperature	Storage	-15° to 40° C (5° to 104° F)	
M : El 4:	Operating	24,606.3 ft. (7,500m)	
Maximum Elevation	Storage	9,842.5 ft. (3,000 m)	
Humidity	0% to 95% relative humidity, non-condensing		
IP Rating	IP20		

Dimensions and weights

SMTL750RMI2UC / SMTL1000RMI2UC Rack-Mount



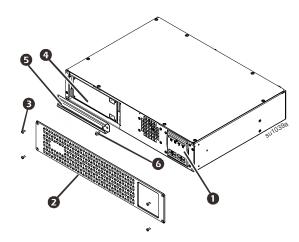




Model	Dimensions (in/mm) H x W x D	Weights (lb / kg)
SMTL750RMI2UC	3.4 x 17.25 x 12.52 in (86.35 x 438.15 x 318.1 mm)	34 / 15.4
SMTL1000RMI2UC	3.4 X 17.23 X 12.32 III (00.33 X 430.13 X 310.1 IIIII)	36 / 16.3
SMTL1500RMI3UC	5.14 x 17.25 x 11.89 in (130.6 x 438.15 x 302 mm)	43 / 19.5

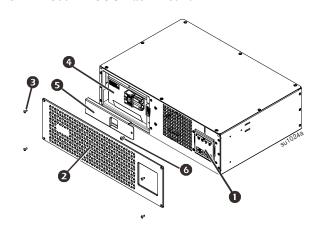
Product Overview

SMTL750RMI2UC and SMTL1000RMI2UC

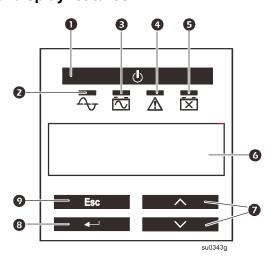


- **1** Display (more information below)
- **2** Bezel
- 3 Bezel Screws
- 4 Battery
- **6** Battery Door
- 6 Battery Door Screw

SMTL1500RMI3UC Rack-Mount



Front panel display features



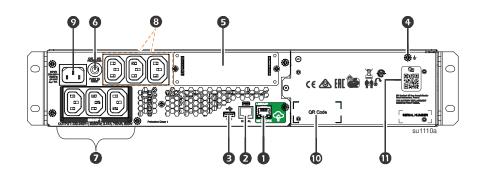
- 1 Online LED
- **2** UPS ON/OFF
- 3 On Battery LED
- **4** Error Detected LED
- **6** Battery Error LED
- 6 Multi-lingual display screen
- **1** UP/DOWN Selection arrows
- 8 ENTER
- **9** ESCAPE

Rear panel features

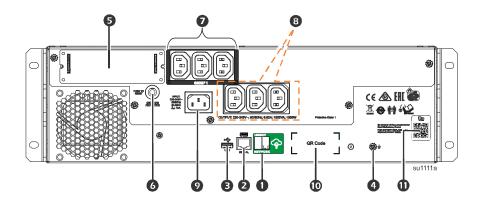
- APC SmartConnect port
- 2 Serial port
- 3 USB port
- Chassis ground connection screw
- **5** Smart Slot

- 6 Input circuit breaker
- **7** Controlled outlet group
- Outlets
- **9** UPS input
- 10 Link and data for SmartConnect setup
- 1 Link to on line users manual

SMTL750RMI2UC and SMTL1000RMI2UC Rack-Mount



SMTL1500RMI3UC Rack-Mount



Installation

For UPS installation information, refer to the Installation Guide included with the UPS.

Placement

The UPS is intended for IT environments. Avoid placement where there is excessive dust and humidity. Note that temperature in excess of 25° C may have an adverse effect on battery and UPS life. All vents on the side or rear of the UPS should be free of obstructions.

The UPS is heavy. The UPS should be placed near the bottom of the rack.

Connect to equipment and utilities

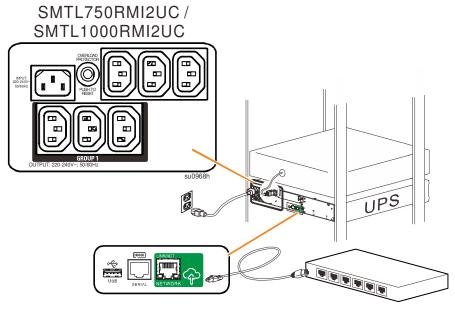
Note: The UPS will charge the battery to 98% capacity in the first three hours of normal operation. **Do not expect full battery runtime capability during this initial charge period.**

A CAUTION

RISK OF INJURY OR DAMAGE TO EQUIPMENT

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

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



- 1. Connect the battery. (see Installation Guide)
- 2. Connect equipment to the outlets in the rear of the UPS. Some models are equipped with controlled outlet groups. Refer to the "Configuration" section of this manual for further instructions on the use of controlled outlet groups.
- Connect the UPS input to AC power.
 Note: Once power is connected the display will be active.
- 4. Press the main power button on the UPS display to turn on the UPS output.

Note: The On-line LED Δ_{7} will light green when the output is on.

SMTL1500RMI3UC PART. SOCIETY OUTPUT: 220 240V-y 50/60Hz: 6.82A; 1500VA; 1350W SU0968I UPS SERIAL SERIAL

SmartConnect

APC SmartConnect allows you to monitor the health and status of your UPS from any device connected to the Internet. Visit www.smartconnect.apc.com to learn more.

Log onto www.smartconnect.apc.com or scan the SmartConnect QR code to launch the registration process. The website includes instructions to setup your online account, activate your warranty and begin monitoring your UPS remotely.

By connecting this product to the Internet using the APC SmartConnect port, you are agreeing to APC SmartConnect Terms of Use, as found at www.smartconnect.apc.com. Schneider Electric Data Privacy Policy can also be found at www.smartconnect.apc.com.

Start up settings

When the UPS is powered on for the first time the LCD screen displays the Setup Wizard and asks a number of basic set-up questions. They can be answered simply by using the arrow and enter keys on the display. Configuration can also be performed using PowerChuteTM software.

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

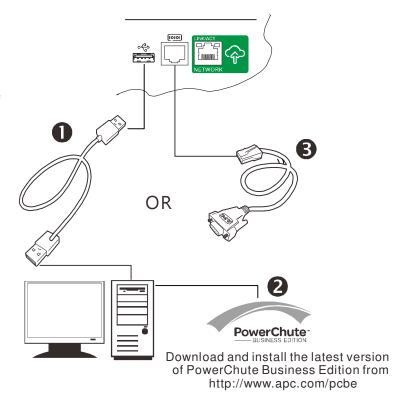
Function	Factory Default	Options	Description
Language	English	English French* German*	The language for the display interface.
		Spanish* Italian* Portuguese* Japanese*	*Language options will vary by model.
Local Power Quality	Good	Good Fair Poor	Select the quality of input AC power. • If Good is selected, the unit will go on battery power more often to provide the cleanest power supply to the connected equipment. • If Poor is selected, the UPS will tolerate more fluctuations in power and will go on battery power less often. If unsure of the local power quality, select Good.
Menu Type	Standard	Standard Advanced	The standard menu displays the most commonly required menus for most users. The advanced menus include all parameters.
Today's Date	Manufacture date		Use to change the date, and the to use the date displayed.

Connect and install management software

Smart-UPS is provided with PowerChute management software for unattended operating system shutdown, UPS monitoring, UPS control and energy reporting. The following diagram is a representation of a typical server installation.

- 1. Connect the USB cable from the rear of the UPS ≡ to the protected device such as a server.
- For a server or other device with an operating system, download and install the latest version of the PowerChute Business Edition from www.apc.com/pcbe.
 PowerChute provides for graceful shutdown in the event of an extended power outage and is a powerful management interface on the local network.
- 3. A built-in serial port is also available for additional communication options with an optional serial cable. For more detailed information on supported protocols and options refer to application note #181 at www.apc.com.
- 4. Even more management options are available via the built-in Smartslot.

Refer to www.apc.com for more information.



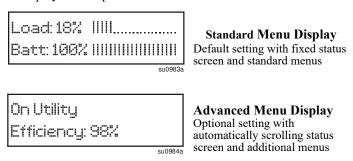
Operation

Using the display

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

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

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



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

Standard menus

The Standard menus are the most commonly used menus. The following is a list of some items displayed in this menu mode.

Menu	General Functions	
Status	View UPS information: Operating Mode Efficiency Load Power Load VA Battery Charge state Estimated Runtime	 Battery Temp Input Output SmartConnect Probe 1, Probe 2, when NMC and sensor probes are installed
Configuration	Configure UPS settings: • Language • Green Mode • Local Power Quality: Good, Fair, Poor • Menu Type: Standard or Advanced • Audible Alarm	 Display (Auto Dim, Auto Off, Always On) Reset to Factory Default SmartConnect Control Install FW?(only available if a firmware update is available)
Test & Diags	Perform UPS tests and diagnostic functions: • UPS Self Test • UPS Alarms Test	
About	View UPS information: • UPS Model • UPS Part No. • UPS Serial No. • UPS Manufacture Date • Battery Part No. • Battery Install Date	 Replace Battery by Running UPS FW Available UPS FW UPS MAC UPS IP Address UPS Product Key SmartSlot Card (if installed)

Advanced menus

The Advanced menus provide additional options for the UPS and are available only if the display interface is configured to use the Advanced menus.

Menu	General Functions		
Status	View detailed UPS information: Operating Mode Efficiency Load Power Load VA Load Amps Load Energy Battery Charge State Estimated Runtime	 Battery Voltage Battery Temp Input Output Outlet Groups SmartConnect Probe 1, Probe 2, when NMC and sensor probes are installed 	
Control	Control the Main and Controlled Outlet Group to turn on, turn off, shutdown, or reboot: • UPS Control • Outlet Group Control		
Configuration	Configure advanced UPS settings: • Language • Output Voltage • Green Mode • Local Power Quality • Menu Type • Audible Alarm • Display • Sensitivity • Low Transfer • High Transfer • Auto Self Test • Reset Energy Meter	 Enter Setup Wizard Reset to Factory Defaults Config Main Group Outlets Config Group Outlets Modbus Settings SmartConnect Control UPS IP Address Settings NMC IP Address Settings(if NMC is available) Install FW?(only available if a firmware update is available) 	

Menu	General Functions	General Functions		
Test & Diag	Perform UPS tests and diagnostics functions: • UPS Self Test • UPS Alarms Test			
Logs	View the error log for information al	View the error log for information about UPS errors that have occurred.		
About	View UPS information: • UPS Model • UPS Part No. • UPS Serial No. • UPS Manufacture Date • Battery Part No. • Battery Install Date	 Replace Battery by Running UPS FW Available UPS FW UPS MAC UPS IP Address UPS Product Key SmartSlot Card (if installed) 		

Configuration

General configuration settings

Configuration settings may be changed at any time using the LCD interface or PowerChute software. This table provides a brief description of the general settings.

Function	Factory Default	Options	Description
High Transfer	253Vac	253 Vac - 265Vac	To avoid unnecessary battery usage, set the transfer point higher if the AC voltage is chronically high and the connected equipment is known to work under this condition. The Power Quality setting will automatically change this setting. Note: Use the Advanced Menus to configure this setting.
Low Transfer	207 Vac	195 Vac - 207 Vac	Set the transfer point lower if the AC voltage is chronically low and the connected equipment can tolerate this condition. This setting may also be adjusted using the power quality setting. Note: Use the Advanced Menus to configure this setting.
Sensitivity	Normal	• Normal • Reduced • Low	Select the level of sensitivity to power events that the UPS will tolerate. • Normal: The UPS will go on battery power more often to provide the cleanest power supply to the connected equipment. • Low: The UPS will tolerate more fluctuations in power and will go on battery power less often. If the connected load is sensitive to power disturbances, set the sensitivity to Normal.
Display	Auto Off	• Auto Off • Auto Dim • Always On	The UPS can be configured to change the LCD brightness when the interface has not been used for 4 minutes. • Auto Off: The LCD turns off. This is used as the default to extend LCD lifetime. • Auto Dim: The LCD switches to a lower brightness. • Always On: The LCD is always at the lower brightness and does not change due to inactivity.
Audible Alarm	On	• On • Off	The UPS will mute all audible alarms if this is set to Off or when the display buttons are pressed while there is an audible alarm.
Auto Self Test	On start-up and every 14 days since the last test	• Never • Startup Only • Startup +7 Since • Startup +14 Since	The interval at which the UPS will execute a self-test.
Reset to Factory Default	No	Yes/No	Restore the UPS factory default settings.
Green Mode	Enable	• Enable • Disable	This will enable or disable Green mode function. Green Mode conserves energy while the UPS is operating on line.
SmartConnect Control	Enable-No Ctrl	• Enable-No Ctrl • Enable-With Ctrl • Disable	This will permit remote configuration changes.
Install FW?	Don't Install	Next off (Updates the UPS Firmware next time that the UPS is turned off) Now (Updates the UPS firmware immediately without interrupting operations) Don't Install	Firmware update: this only appears when new firmware is available in the flash memory of the UPS and is ready to be installed

Outlet group configuration settings

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

- Turn off: Disconnect from power immediately and connect only with a manual command.
- Turn on: Connect to power immediately.
- Shutdown: Disconnect from power and automatically connect when AC power becomes available.
- Reboot: Disconnect from power, wait for a specified amount of time, then connect to power.

In addition, the Main Outlet Group and the Controlled Outlet Group can be configured to do the following:

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

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

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

Function	Factory Default	Options	Description
UPS Name String	APC UPS	Edit these names using an external interface, such as the Network Management Card Web interface.	
Main Outlet Group Name String	Unswitched Group		
Controlled Outlet Group Name String	Outlet Group 1		
Turn 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.
Turn Off Delay	• 0 sec (Main Outlet Group) • 90 sec (Controlled Outlet Groups)	0 - 32767 seconds	The amount of time the Outlet Group will wait between receiving the command to turn off and the actual shut down.
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 - 32767seconds	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.
Loadshed Runtime	0 seconds	0 - 3600seconds	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 start command once the overload condition has been corrected.

Modbus settings

Setting	Factory Default	Options	Description
Slave ID	1	1- 223	Sets the Modbus slave address of UPS
Ser+USB	Disable	• Enable • Disable	Enables or disables UPS Modbus protocol over serial and USB ports
TCP Settings • TCP Protocols	Disable	• Disable • Read-Only • Read-Write	Enables or disables UPS Modbus TCP/IP protocol provided by the embedded SmartConnect port. • Disable: Disables UPS Modbus TCP/IP protocol • Read-Only: Modbus master over TCP/IP protocol is only allowed to get UPS status. • Read-Write: Modbus master over TCP/IP protocol is allowed to get UPS status and control the UPS. The port number of UPS Modbus TCP/IP protocol is fixed at 502.
TCP Settings • Master IP Addr	000.000.000	A valid IPv4 address	Specifies the IPv4 address of the Modbus master. The Master IP Addr when set as 000.000.000.000 will allow connection of external Modbus master with any IP address. When not set as 000.000.000.000, only the Modbus master with the specified IP address is allowed to connect to the UPS. Example: Master IP Address is set to 192.168.0.10, only Modbus master with IP address 192.168.0.10 could connect to the UPS.

UPS IP Address settings

Setting	Factory Default	Options	Description
UPS IP Address Mode	DHCP	• DHCP	Selects the IP address configuration mode of UPS embedded SmartConnect port:
1.2000		• Manual	DHCP: UPS will automatically configure its IPv4 address via DHCP protocol.
. <u> </u>			• Manual: Manually assigns a static IPv4 address to UPS
IP Address	000.000.000.000	A valid IPv4 address	This is the IPv4 address assigned to the embedded SmartConnect port.
			When DHCP IP address mode is selected, it will display the UPS IPv4 address assigned by DHCP server.
			When Manual IP address mode is selected, you need to manually specify a static IPv4 address.
Subnet Mask	000.000.000.000	A valid IPv4 subnet mask	Assigns the subnet mask of the network where UPS IPv4 address belongs.
			When DHCP IP address mode is selected, it will display the subnet mask assigned by DHCP server.
			When Manual IP address mode is selected, you need to manually specify the subnet mask of the network where the specified static IPv4 address belongs.
Default Gateway	000.000.000.000	A valid IPv4 address	This is the IPv4 address of the host from where the UPS sends data to another network or Internet.
			When DHCP IP address mode is selected, it will display the default gateway assigned by DHCP server.
			When Manual IP address mode is selected, you need to manually specify the IPv4 address of default gateway.
DNS Server 1	000.000.000.000	A valid IPv4 address	The IPv4 address of first domain name server (DNS) the UPS uses to resolve host names to IPv4 addresses.
			When DHCP IP address mode is selected, it will display the IPv4 address of the first DNS server assigned by DHCP server.
			When Manual IP address mode is selected, you need to manually specify the IPv4 address of the first DNS server.
DNS Server 2	000.000.000.000	A valid IPv4 address	The IPv4 address of second domain name server (DNS) the UPS uses to resolve host names to IPv4 addresses (only when UPS is unable to resolve IP address through first domain name server). This setting is optional.
			When DHCP IP address mode is selected, it will display the IPv4 address of the second DNS server assigned by DHCP server.
			When Manual IP address mode is selected, you can manually specify the IPv4 address of the second DNS server or leave it as 000.000.000.000.

Troubleshooting

Problem and Possible Cause	Solution		
The UPS will not turn on or there is no output.			
The unit has not been turned on.	Press the ON key once to turn on the UPS.		
The UPS is not connected to AC power.	Be sure the power cable is securely connected to the unit and to the AC power supply.		
The input circuit breaker has tripped.	Reduce the load on the UPS. Disconnect nonessential equipment and reset the circuit breaker.		
The unit shows very low or no input AC voltage.	c. Contact a qualified electrician to correct wiring issue.		
The battery connector plug is not securely connected.	Be sure that all battery connections are secure.		
There is an internal UPS error detected.	Do not attempt to use the UPS. Turn off the UPS and unplug it from AC. Conta APC by Schneider Electric Customer Support for assistance.		
If the UPS is not connected to AC Power, then there will be up to a 1-minute delay between the initial connection of the battery and the UPS being ready to start	Wait 1 minute before pressing the ON key, or connect the UPS to AC power to eliminate the delay.		
The UPS is operating on battery, while connec	ted to input AC power.		
The input circuit breaker has tripped.	Reduce the load on the UPS. Disconnect nonessential equipment and reset the circuit breaker.		
There is very high, very low, or distorted input line voltage.	Move the UPS to a different outlet on a different circuit. Test the input voltage with the AC voltage display. If acceptable to the connected equipment, reduce the UPS sensitivity.		
UPS is emitting intermittent beeps.			
The UPS is operating normally.	None. The UPS is protecting the connected equipment.		
UPS does not provide expected backup time.			
The UPS battery is weak due to a recent power outage or is near the end of its service life.	Charge the battery. Batteries require recharging after extended outages and wear out faster when put into service often or when operated at elevated temperatures. If the battery is near the end of its service life, consider replacing the UPS immediately even if the battery error indicator has not illuminated.		
The UPS is experiencing an overload condition.	Check the UPS load display. Unplug unnecessary equipment, such as printers.		
Display interface LEDs flash sequentially.			
The UPS has been shut down remotely through software or an optional accessory card.	None. The UPS will restart automatically when AC power is restored.		
The Error LED is illuminated. The UPS displa	ys an error message and emits a constant beeping sound.		
Internal UPS error detected.	Do not attempt to use the UPS. Turn the UPS off and contact APC by Schneider Electric Customer Support immediately.		
The Replace Battery icon is illuminated and th	e UPS beeps for one minute every five hours.		
The battery has a weak charge.	Allow the battery to recharge for at least four hours. Then, perform a self-test. If the problem persists after recharging, have the UPS replaced immediately.		
The Battery error icon is flashing and the UPS	beeps once every 2 seconds.		
The battery is not properly connected.	Be sure that the battery connector is securely connected.		
The UPS displays a site wiring error message.			
Wiring errors detected include missing ground, hot-neutral polarity reversal, and overloaded neutral circuit.	If the UPS indicates a site wiring error, have a qualified electrician inspect the building wiring. (Applicable to 120 V units only.)		
	•		

Limited Factory Warranty

Schneider Electric IT Corporation (SEIT), warrants its products to be free from defects in materials and workmanship for a period of five(5) years from the date of purchase. The SEIT obligation under this warranty is limited to repairing or replacing, at its own sole option, any such defective products. Repair or replacement of a defective product or 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.

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To obtain service under warranty you must obtain a Returned Material Authorization (RMA) number from customer support. Customers with warranty claims issues may access the SEIT worldwide customer support network through the SEIT Web site: www.apc.com. Select your country from the country selection drop down menu. Open the Support tab at the top of the web page to obtain information for customer support in your region. Products must be returned with transportation charges prepaid and must be accompanied by a brief description of the problem encountered and proof of date and place of purchase.

Transport the Unit

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

Service

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

- 1. Review the *Troubleshooting* section of the manual to eliminate common problems.
- 2. If the problem persists, visit www.apc.com for APC by Schneider Electric Customer Support contact information.
 - a. Note the model number and serial number and the date of purchase. The model and serial numbers are located on the rear panel of the unit and are available through the LCD interface on select models.
 - b. Call APC 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, it will be repaired or replaced at no cost.
 - d. Service procedures and returns may vary internationally. Refer to the APC web site for country specific instructions.
- 3. Pack the unit properly to avoid damage in transit. Never use foam beads for packaging. Damage sustained in transit is not covered under warranty.
- 4. Before shipping, always disconnect all battery modules in a UPS or external battery pack.
- 5. Write the RMA# provided by Customer Support on the outside of the package.
- 6. Return the unit by insured, prepaid carrier to the address provided by Customer Support.

APC by Schneider Electric Worldwide Customer Support

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

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

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