

APC Smart-UPS® RT SURTA1500XL/SURTA1500XLJ/SURTA2000XL **Uninterruptible Power Supply User Manual**

Introduction/Before Installation

About this Manual

The APC Smart-UPS® RT (SURTA1500XL, SURTA1500XLJ, and SURTA2000XL) is a highperformance, Uninterruptible Power Supply (UPS) designed to prevent blackouts, brownouts, sags and surges from reaching your computers, servers, and other sensitive electronic equipment.

This manual describes procedures on how to properly unpack and install the UPS, connect the battery and equipment, configure accessories, and start up the system.

Illustrations are representative. Your configuration, including components and optional APC equipment, may be different from the models shown in this manual. The user manual is accessible from the supplied CD and the APC web site, www.apc.com.

Contact Information

Refer to www.apc.com to contact APC or for additional information about this product.

Safety Information



Read the Safety Guide before you begin the installation, operate the UPS, or perform equipment maintenance. Failure to comply with safety instructions varning could result in bodily injury or equipment damage.

Unpacking and Equipment Placement



The UPS is heavy. Two people are required to lift the UPS.

Select a location sturdy enough to handle the weight of the UPS.

- 1. Unpack the equipment. The packaging is recyclable; save it for reuse or dispose of it properly.
- 2. Inspect the equipment upon receipt. Notify the carrier and dealer if there is damage.
- 3. Check the package contents:
 - UPS and front bezel
 - UPS literature kit containing:
 - product documentation
 - safety information
 - warranty information
- 120 V models:
 - PowerChute[®] CD
 - Serial and USB communication cables

100 V models:

 Serial communication cable

- 4 Place the UPS where it will be used
 - Ensure that air vents on the front and rear of the UPS are not blocked.

 Do not operate the UPS where there is excessive dust or the temperature or humidity are outside the specified limits.



Installation

Refer to instructions below for information on how to install the UPS in a rack, as a tower configuration, or when installing the UPS with optional battery pack(s). Once the UPS has been placed in the desired tower or rack location, complete the remaining installation steps in sequential order, beginning with "Connect Equipment to the UPS" on page 2.

To Install the UPS in a Rack

See the installation sheet supplied with the optional rail kit (SURTRK) to install the UPS in the rack. It is recommended that you remove the battery before attempting to install it in the rack. See "Battery Replacement Instructions" on page 11 for the procedure.

To Install the UPS as a Tower Configuration



For stability, the UPS is shipped with stabilizing feet. Removal of the feet in a tower configuration may result in bodily injury or equipment damage.

To Install the UPS with External Battery Pack(s)

In addition to the UPS, if your configuration includes optional Smart-UPS RT battery pack(s) (SURTA48XLBP or SURTA48XLBPJ), see the battery pack user manual to complete the physical installation for the UPS with external battery pack(s).

The UPS must be installed above external battery pack(s) when in a rack. When installing the UPS as a tower configuration, battery pack(s) must be installed to the right of the UPS when facing the front of the UPS. Failure to follow these instructions could result in cabling shortage.

Connect Equipment to the UPS



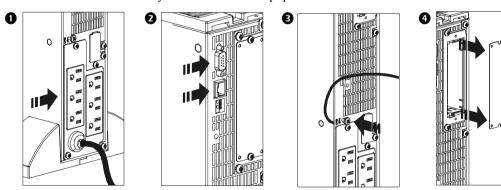
Prior to connecting the grounding cable, ensure that the UPS is NOT connected to utility or battery power circuits. See step 3 on page 3 for procedure.

The UPS is equipped with the following connectors.

Connectors	Туре	Description
@(::::)@	Serial Com	Use only the supplied cable to connect to the serial port. NOTE: A standard serial interface cable is incompatible with the UPS.
		100 V Models: Users may purchase software and cables as an accessory to the UPS. Refer to the APC web site, www.apc.com for information on accessories. NOTE: Serial and USB ports cannot be used simultaneously.

Connectors	Туре	Description
00	EPO terminal	The Emergency Power Off (EPO) terminal allows the user to connect the UPS to the central EPO system. NOTE: Adhere to national and local codes when wiring the EPO switch.
\$	TVSS screw	The UPS features a Transient Voltage Surge-suppression (TVSS) screw located on the rear panel, for connecting the ground cable on surge suppression devices such as telephone and network line protectors. NOTE: Prior to connecting the grounding cable, disconnect the UPS from the utility power outlet and turn off the UPS.
	External battery pack connector	Optional Smart-UPS RT external battery packs provide extended runtime during power outages. These units support up to ten external battery packs. NOTE: See the APC web site, www.apc.com for information on the external battery pack, SURTA48XLBP or SURTA48XLBPJ.
		Connect equipment to the Power Distribution Unit (PDU) receptacles on the rear of the UPS.

- 1. Connect equipment to PDU receptacles **①**.
- 2. If applicable, connect equipment to the serial or USB com port **2**.
- 3. Connect ground cable of voltage surge-suppression equipment or the optional Smart-UPS RT battery pack to the TVSS screw 3.
- 4. Add optional accessories to the Smart-Slot **4**.
 - a. Remove the cover and screws. Discard or save cover. Do not attempt to reinstall it.
 - b. Refer to the accessory manual to install equipment.



If Required, Connect the Emergency Power Off (EPO) Feature



The EPO interface is a safety extra low voltage (SELV) circuit. Connect it only to other SELV circuits. To avoid damage to the UPS, do not connect the EPO interface to any circuit other than a closure type circuit, properly isolated from the utility.

The EPO feature provides immediate de-energizing of the UPS and connected equipment from a remote location, without switching to battery operation.

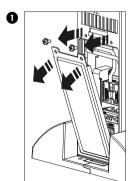
- 1. Use one of the following cable types to connect the UPS to the EPO switch.
 - CL2: Class 2 cable for general use.
 - CL2P: Plenum cable for use in ducts, plenums, and other spaces used for environmental air.
 - CL2R: Riser cable for use in a vertical run in a floor-to-floor shaft.
 - CLEX: Limited use cable for use in dwellings and for use in raceways.
 - For installation in Canada: Use only CSA certified, type ELC (extra-low voltage control cable).
 - For installation in other countries: Use standard low-voltage cable in accordance with national and local regulations.
- 2. Locate the EPO connector **1** on the rear of the UPS. Use a normally-open contact **2** to connect cable to each EPO terminal 3.

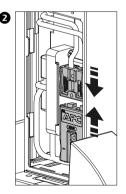


Connect the Battery and Install the Front Bezel

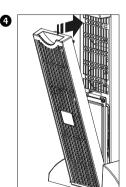
The battery is shipped in the disconnect position. Do not connect the battery until you are ready to use the equipment.

- 1. Remove the battery cover **①**.
- 2. Remove the warning label and protective sticker from the battery connector. Place the sticker on the back of the battery cover for re-use.
- 3. Snap the battery connectors together **2**.
- 4. Reinstall the battery cover **3**.
- 5. Install the front bezel 4.









Connect Power and Start Up the UPS

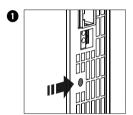


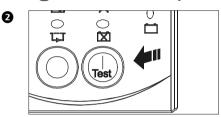
The UPS battery charges when it is connected to utility power and will charge to 90% capacity within three hours. Do not expect full battery run capability from a new battery or after On Battery operation (see "On Battery Operation" on page 7) until the battery recharges.

Note

To use the UPS as a master ON/OFF switch, ensure all connected equipment is switched on. The equipment will not be powered until the UPS is turned on.

- 1. Plug the UPS into a two-pole, three-wire, grounded receptacle only. Avoid using extension cords.
 - a. Check to ensure that the Site Wiring Fault LED light on the back of the UPS is NOT illuminated (On position).
 - b. If the LED light is on, the outlet is incorrectly wired. Check with a licensed electrician to ensure that the outlet is properly wired.
- 2. To power up the UPS, press the button 2 on the front panel.





3. Turn on all connected equipment.

For Additional Computer System Security

For additional computer system security, install PowerChute[®] Business Edition Smart-UPS[®] monitoring software. Refer to the software CD included in the literature kit for instructions.

Terminal Mode Configuration



Terminal mode can only be used with the serial cable. If using a USB cable, disconnect the USB cable from the UPS, and connect the serial cable to the UPS before using the terminal program.

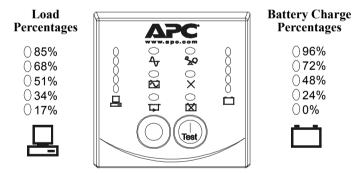
Shown below is an example of how to use terminal mode to configure the number of external battery packs. See "Configuration Settings" on page 8 for additional information.

- 1. Exit the PowerChute Business Edition software.
 - a. From the windows PC desktop, select START => Settings => Control Panel => Administrative Tools => Services.
 - b. Select APC PCBE Server and APC PCBE Agent. Right click the mouse and select Stop.
- Open a terminal program. Example: HyperTerminal
 From the computer desktop, select START => Programs => Accessories => Communication => HyperTerminal.
- 3. Double-click the HyperTerminal icon.
 - a. Follow the prompts to choose a name and select an icon. Disregard the message, "...must install a modem," if it is displayed. Click OK.

- b. Select the COM port that is connected to the UPS. The port settings are:
 - Bits per second 2400
 - data bits 8
 - parity none
 - stop bit 1
 - · flow control none
- c. Press Enter.
- 4. Once the terminal window is open, follow these steps to set the number of external battery packs (SURTA48XLBP or SURTA48XLBPJ):
 - a. Press Enter to initiate terminal mode. Follow the prompts.
 - b. Press 1 to modify UPS settings. Press e (or E) to modify the number of battery packs.
 - c. Enter the number of battery packs, including the internal battery module (Number of packs: 1 = internal battery module, 2 = one SURTA48XLBP or SURTA48XLBPJ, 3 = two SURTA48XLBP or SURTA48XLBPJ, etc.)
 - d. Press Enter.
 - e. Follow the prompts.
- 5. Exit the terminal program.

Operation

Display Panel



Display Panel Indicators

Indicator LED	Indicator Title	Description
4	On Line	The UPS is supplying utility power to the connected equipment.
$\overline{\triangle}$	On Battery	The UPS is supplying battery power to the connected equipment.

Indicator LED	Indicator Title	Description
Ţ	Bypass	The Bypass LED illuminates indicating that the UPS is in bypass mode. Utility power is sent directly to connected equipment during bypass mode operation. Bypass mode operation is the result of an internal UPS fault, an overload condition, or a user initiated command through an accessory. Battery operation is not available while the UPS is in bypass mode.
X	Fault	The UPS detects an internal fault.
%0	Overload	The connected equipment is drawing more than the UPS power rating allows.
×	Replace Battery/Battery Disconnected	The battery is disconnected or must be replaced.

Display Panel Functions

Feature Button	Feature Title	Function
Tout	Power On	Press this button to turn on the UPS. Continue reading for additional capabilities.
	Power Off	Press this button to turn off the UPS output. NOTE: The battery will continue to charge and the fans will continue to run while the UPS is connected to the utility.
Tast	Cold Start	When there is no utility power and the UPS is off, press and hold the button to power up the UPS and connected equipment. The UPS will emit two beeps. During the second beep, release the button.
	Self-Test	Automatic: The UPS performs a self-test automatically when tuned on, and every two weeks thereafter (by default). During the self-test, the UPS briefly operates the connected equipment On Battery. Manual: Press and hold the button for a few seconds to initiate the self-test.

On Battery Operation

The UPS switches to battery operation automatically if the utility power fails. While running On Battery, an alarm beeps four times every 30 seconds.

Press the button to silence this alarm. If the utility power does not return, the UPS continues to supply power to the connected equipment until the battery is fully discharged.

When 2 minutes of run time remain, the UPS emits a continuous beeping. If PowerChute is not being used, files must be manually saved and the computer must be turned off before the UPS fully discharges the battery.

Refer to **www.apc.com** for information on battery runtimes. The UPS battery runtime differs based on usage and environment.

Utility Voltage Measurement

Feature	Display	Feature Title	Description
100V ① 118.0 ① 108.7 ① 99.3 ① 90.0 ② 80.6	120V	Diagnostic Utility Voltage	The UPS has a diagnostic feature that indicates the utility voltage coming into the UPS. The UPS starts a self-test as part of this procedure. The self-test does not affect the voltage display. See "Troubleshooting," beginning on page 12 for additional information.

- 1. Press and hold the button to view the utility voltage bar graph indicator.
- 2. After a few seconds, this five-LED Battery Charge indicator will show the utility input voltage.
- 3. Refer to the appropriate voltage (100 or 120) reading. Values are not listed on the UPS. The actual input voltage is between the displayed value on the list and the next higher value.

Configuration Settings

Settings are adjusted through PowerChute software, optional SmartSlot accessory cards, or in terminal mode.

Function	Factory Default	User Selectable Choices	Description
Automatic Self-Test	Every 14 days (336 hours)	Every 7 days (168 hours) Every 14 days (336 hours) On start up only No self-test	Set the interval at which the UPS will execute a self-test.
UPS ID	UPS_IDEN	Up to eight characters (alphanumeric)	Uniquely identify the UPS, (i.e. server name or location) for network management purposes.
Date of Last Battery Replacement	Manufacture Date	mm/dd/yy	Reset this date when you replace the battery module.
Minimum Capacity Before Return from Shutdown	0 percent	• 0% • 60% • 15% • 75% • 30% • 90% • 45%	Specify the percentage to which batteries will be charged following a low battery shutdown before powering connected equipment.
Alarm Delay	Enable	• Enable • Disable • Mute	Mute ongoing alarms or disable all alarms permanently.
Shutdown Delay	90 seconds	• 0 s • 360 s • 90 s • 450 s • 180 s • 540 s • 270 s • 630 s	Set the interval between the time when the UPS receives a shutdown command and actual shutdown.

Function	Factory Default	User Selectable Choices	Description
Low Battery Warning	2 minutes	• 2 m • 5 m • 8 m • 11 m • 20 m • 11 m	PowerChute software interface provides automatic, unattended shutdown when approximately two minutes of battery operated run time remains. The low-battery warning beeps are continuous when two minutes of run time remain. Change the low battery warning interval setting to the time that the operating system or system software requires to safely shut down.
Synchronized Turn-on Delay	0 seconds	• 0 s • 240 s • 60 s • 300 s • 120 s • 360 s • 180 s • 420 s	Specify the time the UPS will wait after the return of utility power before start up (to avoid branch circuit overload).
High Bypass Points	100V Models: 110V 120V Models: 133V	100V 120V • 107V • 127V • 110V • 130V • 113V • 133V • 116V • 136V • 119V • 139V • 122V • 142V • 125V • 145V • 128V • 148V	Maximum voltage that the UPS will pass to connected equipment during internal bypass operation.
Low Bypass Points	100V Models: 78V 120V Models: 86V	100V 120V • 78V • 86V • 80V • 88V • 82V • 90V • 84V • 92V • 86V • 94V • 88V • 96V • 90V • 98V • 92V • 100V	Minimum voltage that the UPS will pass to connected equipment during internal bypass operation.
Output Frequency	Automatic 50 ± 3 Hz or 60 ± 3 Hz	50 ± 3 Hz or 50 ± 0.1 Hz 60 ± 3 Hz or 60 ± 0.1 Hz	Sets the allowable UPS output frequency. Whenever possible, the output frequency tracks the input frequency.
Number of Battery Packs	1	Number of connected battery packs	Defines the number of connected battery packs for proper run time prediction. 1 = internal battery module, 2 = one SURTA48XLBP or SURTA48XLBPJ, 3 = two SURTA48XLBP or SURTA48XLBPJ, etc.

Storage, Maintenance, Transport, and Service

Storage

Store the UPS covered in a cool, dry location with the battery(s) fully charged.

At 5° to 113° F (-15° to 45° C), charge the UPS battery every six months.

To Install a Replacement Battery

This UPS has an easy-to-replace, hot-swappable battery module. Replacement is a safe procedure, isolated from electrical hazards. You may leave the UPS and connected equipment on during the replacement procedure.



Once the batteries are disconnected, the connected equipment is not protected from power outages.

Refer to the appropriate replacement battery user manual for battery module installation instructions. See your dealer or contact APC at **www.apc.com** for information on replacement battery modules.



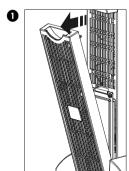


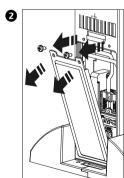
Be sure to deliver the spent battery(s) to a recycling facility or ship it to APC in the replacement battery packing material.

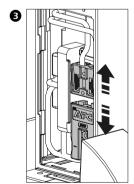
Transporting the UPS to Another Location

Perform these steps before transporting the UPS to another location.

- 1. Shut down and disconnect any equipment attached to the UPS.
- 2. Shut down and disconnect the UPS from the utility or power supply.
- 3. Disconnect the battery.
 - a. Remove the front bezel **①**.
 - b. Remove the battery cover **2**.
 - c. Unsnap the battery connectors 3.
- 4. Place a protective sticker or packaging between the battery connectors to ensure that the connectors do not become re-engaged during transport.
- 5. Reinstall the battery cover **4**.





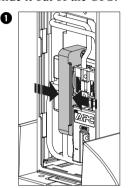


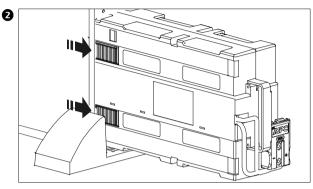


Battery Replacement Instructions

If the battery needs replacement, follow the steps below to remove the battery from the UPS.

- 1. Disconnect the battery. See step 3 in "Transporting the UPS to Another Location" on page 10.
- 2. Grab the battery handle **1** to pull the battery out of the frame.
- 3. To disengage the battery from the frame, push in the two tabs 2 on the side of the battery and slide it out of the UPS.





4. Refer to the battery replacement instruction sheet to install the replacement battery in the UPS.

Service



Always DISCONNECT THE BATTERY before shipping the UPS to be in compliance with U.S. Department of Transportation (DOT) regulations.

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

- 1. Review the problems discussed in "Troubleshooting," beginning on page 12 to eliminate common problems.
- 2. If the problem persists, contact APC Customer Service through the APC web site, www.apc.com.
 - Note the model number of the UPS, the serial number, and the date purchased. If you call APC Customer Service, a technician will ask you to describe the problem and attempt to solve it over the phone. If this is not possible, the technician will issue a Returned Material Authorization Number (RMA#).
 - If the UPS is under warranty, repairs are free.
 - Procedures for servicing or returning products may vary internationally. Refer to the APC web site, www.apc.com for country specific instructions.
- 3. Disconnect the battery for transport. See step 3 in "Transporting the UPS to Another Location" on page 10.
- 4. Pack the UPS and front bezel in its original packaging to avoid damage in transit. If this is not available, refer to **www.apc.com** for information about obtaining a new set. Never use Styrofoam beads for packaging. Damage sustained in transit is not covered under warranty.
- 5. Mark the RMA# on the outside of the package.
- 6. Return the UPS by insured, prepaid carrier to the address given to you by Customer Service.

Troubleshooting

Use this chart to solve minor UPS installation and operation problems. Refer to **www.apc.com** with complex UPS problems.

Problem and/or Possible Cause	Solution		
UPS will not turn on			
The battery is not connected properly.	Check that the battery connectors are fully engaged.		
button not pushed.	Press the button once to power-up the UPS and connected equipment.		
The UPS is not connected to utility power supply.	Check that the power cable from the UPS to the utility power supply is securely connected at both ends.		
Very low or no utility voltage.	Check the utility power supply to the UPS by plugging in a table lamp. If the light is very dim, have the utility voltage checked.		
UPS will not turn off (Refer to "Displ	ay Panel Functions" on page 7.)		
button not pushed.	Press the button once to turn the UPS off.		
The UPS is experiencing an internal fault.	Do not attempt to use the UPS. Unplug the UPS and have it serviced immediately.		
UPS beeps occasionally			
Normal UPS operation when running On Battery.	None: The UPS is protecting the connected equipment. Press the button to silence this alarm.		
UPS is not providing expected backup	o time		
The UPS battery is weak due to a recent power outage or battery is near the end of its service life.	Charge the battery. Batteries require recharging after extended outages. Batteries can wear faster when put into service often or when operated at elevated temperatures. If the battery is near the end of its service life, consider replacing the battery even if the <i>replace battery</i> LED is not yet illuminated.		
All LEDs are illuminated and the UPS emits a constant beeping (Refer to "Display Panel Indicators" on page 6.)			
The UPS is experiencing an internal fault.	Do not attempt to use the UPS. Unplug the UPS and have it serviced immediately.		
Front panel LEDs flash sequentially (Refer to "Display Panel Indicators" on page 6.)			
The UPS has been shut down remotely through software or an optional accessory card.	None: The UPS will restart automatically when utility power returns.		
All LEDs are off and the UPS is plugg	ged into a wall outlet (Refer to "Display Panel Indicators" on page 6.)		
The UPS is shut down or the battery is discharged from an extended outage.	None: The UPS will restart automatically when utility power is restored and the battery has a sufficient or user-specified charge.		

Problem and/or Possible Cause	Solution	
Bypass and Overload LEDs are illuminated and the UPS emits a sustained alarm tone (Refer to "Display Panel Indicators" on page 6.)		
The UPS is overloaded.	The connected equipment exceeds the specified "maximum load" as defined in <i>Specifications</i> on the APC web site, www.apc.com .	
	The alarm remains on until the overload is removed. Disconnect nonessential equipment from the UPS to eliminate the overload condition.	
	The UPS continues to supply power in the bypass mode and the circuit breaker does not trip; the UPS will not provide power from batteries in the event of a utility voltage interruption.	
Bypass LED is illuminated (Refer to '	'Display Panel Indicators" on page 6.)	
The bypass has been turned on through an accessory.	If bypass is the chosen mode of operation, ignore the illuminated LED.	
Fault LED is illuminated (Refer to "L	Display Panel Indicators" on page 6.)	
Internal UPS fault.	Do not attempt to use the UPS. Turn the UPS off and have it serviced immediately.	
Fault and Overload LEDs illuminated Indicators" on page 6.)	l and UPS emits a sustained alarm tone (Refer to "Display Panel	
The UPS has ceased sending power to connected equipment.	The connected equipment exceeds the specified "maximum load" as defined in <i>Specifications</i> on the APC web site, www.apc.com .	
	Disconnect nonessential equipment from the UPS to eliminate the over-load condition.	
	Press the button, then the button to restore power to connected equipment.	
The Replace Battery/Battery Disconn page 6.)	ected LED is illuminated (Refer to "Display Panel Indicators" on	
Battery is disconnected.	Check that the battery connectors are fully engaged.	
X flashes and a short beep is emitted every two seconds to indicate the battery is disconnected.		
Weak battery.	Allow the battery to recharge for 24 hours and perform a self-test. If the problem persists after recharging, replace the battery.	
Failure of a battery self-test. X flashes and a short beep is emitted for one minute. The UPS repeats the	Allow the battery to recharge for 24 hours. Perform the self-test procedure to confirm the replace battery condition. The alarm stops and the LED clears if the battery passes the self-test.	
alarm every five hours.	If the battery fails again, it must be replaced. UPS output is maintained during the self-test.	

Problem and/or Possible Cause	Solution		
The Site Wiring Fault LED on the rear panel is illuminated (Refer to "Display Panel Indicators" on page 6.)			
The UPS is plugged into an improperly wired utility power outlet.	Wiring faults detected include missing ground, hot-neutral polarity reversal, and overloaded neutral circuit. Contact a qualified electrician to correct the building wiring.		
There is no utility power			
There is no utility power and the UPS is off.	Use the cold start feature to supply power to the connected equipment from the UPS battery. Press the button for one second and release. The UPS will beep briefly. Press and hold the button again for about three seconds. The unit will emit two beeps. Release the button during the second beep.		
UPS operates On Battery although lin	ne voltage exists		
Your system is experiencing very high, low or distorted line voltage. The generator is not correctly sized.	Move the UPS to a different outlet on a different circuit: Inadequately sized generators may distort the voltage. Test the input voltage with the utility voltage display. Refer to "Utility Voltage Measurement" on page 8 for additional information. Contact a qualified electrician to correct the building wiring.		
Diagnostic utility voltage (Refer to "U	Diagnostic utility voltage (Refer to "Utility Voltage Measurement" on page 8.)		
All five LEDs are illuminated.	The line voltage is extremely high and should be checked by an electrician.		
There is no LED illumination.	The line voltage is extremely low and should be checked by an electrician.		
On Line LED (Refer to "Display Panel Indicators" on page 6.)			
There is no LED illumination.	The UPS is running On Battery, or it must be turned on.		
The LED is blinking.	The UPS is running an internal self-test.		

Radio Frequency, Regulatory, Warranty, and Copyright Information

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. Also, this equipment has been tested without optional accessory cards and found to comply with the limits for a Class B 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 for Class A compliance and a residential environment for Class B compliance.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, this is no guarantee that interference will not occur in a particular installation.

If this equipment for Class B compliance does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Regulatory Approvals

120 V models





T3A031

警告使用者:

這是甲類的資訊產品,在居住的 環境中使用時、可能會遊成射頻 干擾,在這種情況下,使用者會 被要水採取某些滴當的對策。

100 V models



この装置は、情報処理装置等電波障害自主規制協議会(VCCI)の基準に基づくクラスA情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。

Limited Warranty

American Power Conversion (APC) warrants its products to be free from defects in materials and workmanship for a period of two years from the date of purchase. Its obligation under this warranty is limited to repairing or replacing, at its own sole option, any such defective products. To obtain service under warranty you must obtain a Returned Material Authorization (RMA) number from customer support. 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. This warranty does not apply to equipment that has been damaged by accident, negligence, or misapplication or has been altered or modified in any way. This warranty applies only to the original purchaser who must have properly registered the product within 10 days of purchase.

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