



User Manual

English

APC Smart-UPS®

**750/1000/1500 VA
100/120/230 Vac**

2U Rack-Mount

Uninterruptible Power Supply

Introduction

The APC Uninterruptible Power Supply (UPS) is designed to prevent blackouts, brownouts, sags, and surges from reaching your computer and other valuable electronic equipment. The UPS filters small utility line fluctuations and isolates your equipment from large disturbances by internally disconnecting from the utility line. The UPS provides continuous power from its internal battery until the utility line returns to safe levels or the battery is discharged.

1: INSTALLATION



Read the Safety Instruction sheet before installing the UPS.

Unpacking

Inspect the UPS upon receipt. APC designed robust packaging for your product. However, accidents and damage may occur during shipment. Notify the carrier and dealer if there is damage.

The packaging is recyclable; save it for reuse or dispose of it properly.

Check the package contents. The package contains the UPS, the front bezel, the rail kit, and a literature kit containing:

- Product documentation and safety information
- CD-ROM with additional user manual language support and safety information
- PowerChute® CD-ROM (*120V/230V models only*)
- Serial and USB communication cables
- Two IEC jumper cables (*230V models only*)

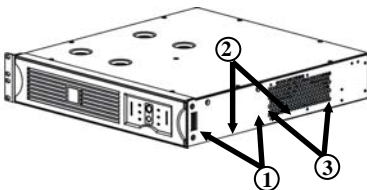


The UPS is shipped with the battery disconnected.

Rail Installation

Install the rails following instructions in the rail kit.

Mounting rails are supplied for the standard 4-post rack. Two-post racks require only the mounting brackets.



Ear Mounting Locations:

1. Standard
2. Optional (1.4" setback)
3. 2-post rack (5" setback)

Positioning the UPS

Place the UPS where it will be used. **The UPS is heavy. Select a location sturdy enough to handle the weight.**

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

0°- 40°C (32°-104°F)

PLACEMENT

0-95% Relative Humidity

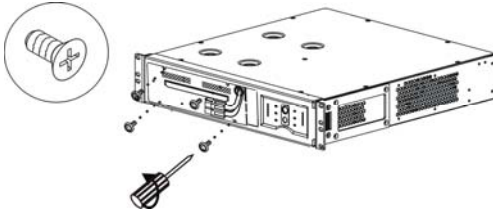
2.5 cm (1 in.)



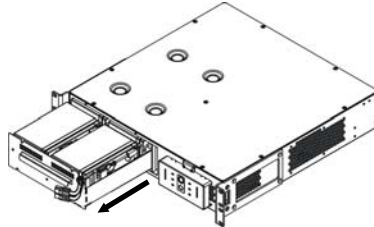
Mounting the UPS in a Rack

The UPS is heavy. To lighten it, you may remove the battery before mounting the unit in the rack (Steps 1 and 2).

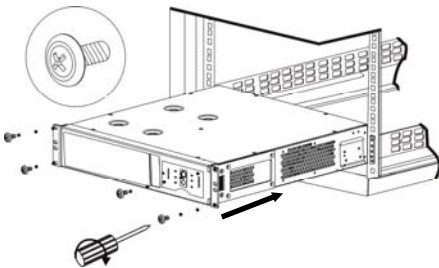
Step 1



Step 2 Caution: The battery is heavy.



Step 3

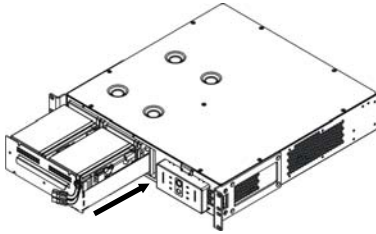


Install the UPS at or near the bottom of the rack (Step 3).

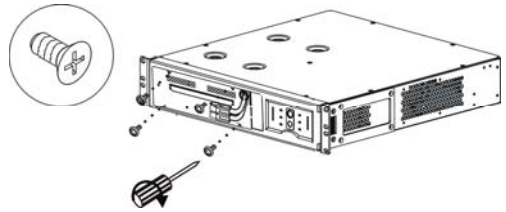
Check to ensure the rack will not tip after installing the UPS into the rack.

Installing and Connecting the Battery and Attaching the Front Bezel

Step 1

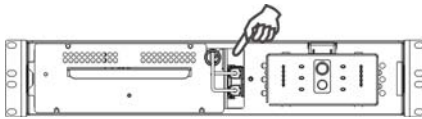


Step 2

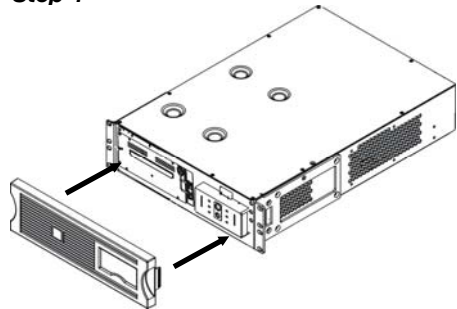


Step 3

Connect battery plug to UPS. Tuck white battery cord into space above connector.



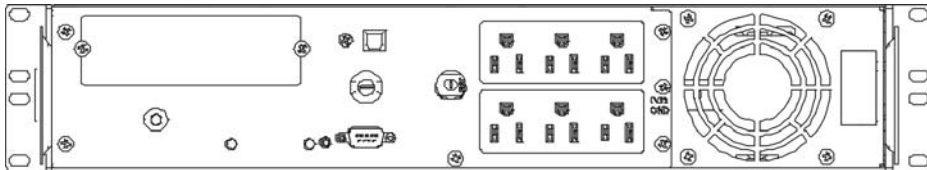
Step 4



Connecting Equipment and Power to the UPS

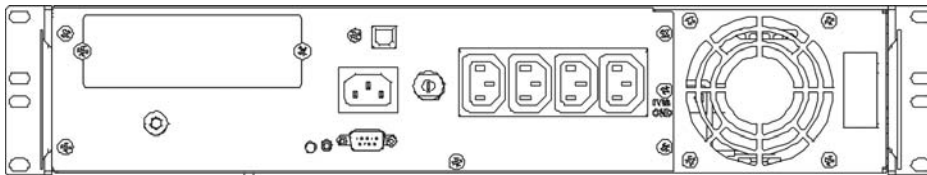
SMART-UPS REAR PANEL

100/120V Models



120V Model Only: Site wiring fault indicator

230V Models




1. Connect equipment to the UPS. **Note: Do not connect a laser printer to the UPS. A laser printer draws significantly more power than other types of equipment and may overload the UPS.**
2. Add any optional accessories to the Smart-Slot.
3. Using a power cord, plug the UPS into a two-pole, three-wire, grounded receptacle only. Avoid using extension cords.

100V/120V models: The power cord is permanently attached to the rear panel of the UPS. The INPUT plug is a NEMA 5-15P.

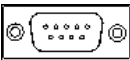
230V models: The power cord is supplied by the customer. Connect ground leads to the TVSS screw (optional). To make the connection, loosen the screw and connect the surge suppression device's ground lead. Tighten the screw to secure the lead.

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

5. To power up the UPS press the  button on the front panel.
 - The UPS charges its battery when it is connected to utility power. The battery charges to 90% capacity during the first four hours of normal operation. **Do not** expect full battery run capability during this initial charge period.
 - *120V Models:* Check the site wiring fault LED located on the rear panel. It lights up if the UPS is plugged into an improperly wired utility power outlet. Refer to *Troubleshooting* in this manual.
6. For additional computer system security, install PowerChute[®] Smart-UPS monitoring software.

BASIC CONNECTORS

Serial Port



USB Port



Power management software and interface kits can be used with the UPS. **Use only interface kits supplied or approved by APC.**



Use an APC supplied cable to connect to the Serial Port. DO NOT use a standard serial interface cable since it is incompatible with the UPS connector.

Both Serial and USB Ports are provided. They cannot be used simultaneously.

TVSS Screw

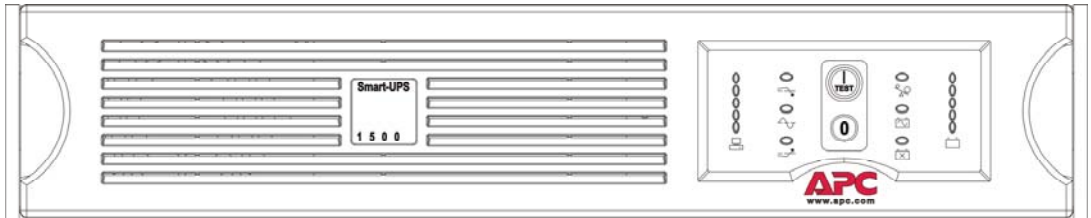


The UPS features a transient voltage surge-suppression (TVSS) screw for connecting the ground lead on surge suppression devices such as telephone and network line protectors.

When connecting grounding cable, disconnect the UPS from utility power.

2: OPERATION

SMART-UPS FRONT PANEL



Power On



Power Off



100V/230V

120V

0 85%

0 85%

0 67%

0 67%

0 50%

0 50%

0 33%

0 33%

0 17%

0 17%



Load

100V/230V

120V

0 96%

0 96%

0 72%

0 72%

0 48%

0 48%

0 24%

0 24%

0 0%

0 0%



Battery
Charge

Online



The online LED illuminates when the UPS is supplying utility power to the connected equipment. If the LED is not lit, the UPS is either not turned ON, or is supplying battery power.

AVR Trim



This LED illuminates to indicate the UPS is compensating for a high utility voltage.

AVR Boost



This LED illuminates to indicate the UPS is compensating for a low utility voltage.

On Battery



When the *on battery power* LED is lit the UPS is supplying battery power to the connected equipment. When on battery, the UPS sounds an alarm—four beeps every 30 seconds.

Overload



The LED illuminates and the UPS emits a sustained alarm tone when an overload condition occurs.

Replace Battery



Failure of a battery self-test causes the UPS to emit short beeps for one minute and the *replace battery* LED illuminates. Refer to *Troubleshooting* in this manual.

Battery Disconnected




The *replace battery* LED flashes and short beep is emitted every two seconds to indicate the battery is disconnected.


Automatic Self-Test

The UPS performs a self-test automatically when turned on, and every two weeks thereafter (by default).

During the self-test, the UPS briefly operates the connected equipment on battery.


If the UPS fails the self-test, the *replace battery* LED  lights and immediately returns to online operation. The connected equipment is not affected by a failed test. Recharge the battery for 24 hours and perform another self-test. If it fails, the battery must be replaced.

Manual Self-Test

Press and hold the  button for a few seconds to initiate the self-test.

On Battery Operation

The Smart-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 (front panel) to silence the UPS alarm (for the current alarm only). If the utility power does not return, the UPS continues to supply power to the connected equipment until the battery is exhausted.






If PowerChute® is not being used you must manually save your files and turn off the computer before the UPS fully discharges the battery.

DETERMINING ON BATTERY RUN TIME





UPS battery life differs based on usage and environment. It is recommended that the battery/batteries be changed once every three years. See the APC web site, www.apc.com, for on battery run times.

3: USER CONFIGURABLE ITEMS

NOTE: SETTINGS ARE MADE THROUGH SUPPLIED POWERCHUTE SOFTWARE OR OPTIONAL SMART SLOT ACCESSORY CARDS.

FUNCTION	FACTORY DEFAULT	USER SELECTABLE CHOICES	DESCRIPTION
Automatic Self-Test	Every 14 days (336 hours)	Every 7 days (168 hours), On Startup Only, No Self-Test	This function sets the interval at which the UPS will execute a self-test. Refer to your software manual for details.
UPS ID	UPS_IDEN	Up to eight characters to define the UPS	Use this field to uniquely identify the UPS, (i.e. server name or location) for network management purposes.
Date of Last Battery Replacement	Manufacture Date	Date of Battery Replacement mm/dd/yy	Reset this date when you replace the battery module.
Minimum Capacity Before Return from Shutdown	0 percent	15, 25, 35, 50, 60, 75, 90 percent	The UPS will charge its batteries to the specified percentage before return from a shutdown.
Voltage Sensitivity The UPS detects and reacts to line voltage distortions by transferring to battery operation to protect the connected equipment. Where power quality is poor, the UPS may frequently transfer to battery operation. If the connected equipment can operate normally under such conditions, reduce the sensitivity setting to conserve battery capacity and service life.	 high	<i>Brightly lit:</i> UPS is set to <i>high</i> sensitivity. <i>Dimly lit:</i> UPS is set to <i>medium</i> sensitivity. <i>Off:</i> UPS is set to <i>low</i> sensitivity.  high  medium  low	To change the UPS sensitivity, press the <i>voltage sensitivity</i> button  (rear panel). Use a pointed object (such as a pen) to do so. You can change the sensitivity level through PowerChute software.
Alarm Delay After Line Fail	5 second delay	30 second delay, At Low Battery Condition, No	To avoid alarms for minor power glitches, set the alarm delay.
Shutdown Delay	20 seconds	0, 60, 120, 240, 480, 720, 960 seconds	Sets the interval between the time when the UPS receives a shutdown command and actual shutdown.

NOTE: SETTINGS ARE MADE THROUGH SUPPLIED POWERCHUTE SOFTWARE OR OPTIONAL SMART SLOT ACCESSORY CARDS.

<i>FUNCTION</i>	<i>FACTORY DEFAULT</i>	<i>USER SELECTABLE CHOICES</i>	<i>DESCRIPTION</i>
<p>Low Battery Warning.</p> <p>PowerChute interface software provides automatic, unattended shutdown when approximately two minutes (by default) of battery operated run time remains.</p>	 2 min.	<p><i>Brightly lit:</i> Low battery warning interval is about two minutes.</p> <p><i>Dimly lit:</i> Low battery warning interval is about five minutes.</p> <p><i>Off:</i> Low battery warning interval is about eight minutes.</p> <p> 2 min.</p> <p> 5 min.</p> <p> 8 min.</p> <p>Possible interval settings: 5, 7, 10, 12, 15, 18 minutes.</p>	<p>The low battery warning beeps are continuous when two minutes of run time remain.</p> <p>You can change the warning interval default setting through PowerChute software.</p>
Synchronized Turn-on Delay	0 seconds	20, 60, 120, 240, 480, 720, 960 seconds	The UPS will wait the specified time after the return of utility power before turn-on (to avoid branch circuit overload).
High Transfer Point	<p>100V: 108VAC</p> <p>120V: 127VAC</p> <p>230V: 253VAC</p>	<p>100V: 110, 112, 114VAC</p> <p>120V: 130, 133, 136VAC</p> <p>230V: 257, 261, 265VAC</p>	To avoid unnecessary battery usage, set the high transfer point higher if the utility voltage is chronically high and the connected equipment is known to work under this condition.
Low Transfer Point	<p>100V: 92VAC</p> <p>120V: 106VAC</p> <p>230V: 208VAC</p>	<p>100V: 86, 88, 90VAC</p> <p>120V: 97, 100, 103VAC</p> <p>230V: 196, 200, 204VAC</p>	Set the low transfer point lower if the utility voltage is chronically low and the connected equipment can tolerate this condition.

4: STORAGE, MAINTENANCE, AND TRANSPORTING

Storage

Store the UPS covered and positioned as for proper functioning, in a cool, dry location, with the batteries fully charged.

At -15 to +30 °C (+5 to +86 °F), charge the UPS battery every six months.

At +30 to +45 °C (+86 to +113 °F), charge the UPS battery every three months.

Replacing the Battery Module

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 for the following procedure. See your dealer or contact APC at the web site, www.apc.com for information on replacement battery modules.



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

Be careful during the following steps-the battery module is heavy.

Refer to *Installing and Connecting the Battery and Attaching the Front Bezel*, in this manual.

Refer to *Mounting the UPS in a Rack* (Steps 1 and 2) for instructions on battery removal.



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

Disconnecting the Battery for Transport



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





The battery may remain in the UPS; it does not have to be removed.



1. Shut down and disconnect any equipment attached to the UPS.
2. Shut down and disconnect the UPS from the power supply.
3. Remove the front bezel, and unplug the battery connector, by pulling firmly on white battery cord.











For shipping instructions and to obtain appropriate packing materials contact APC at the web site, www.apc.com/support/contact.

5: TROUBLESHOOTING

Use the chart below to solve minor Smart-UPS installation and operation problems. Refer to the APC web site, www.apc.com, for assistance with complex UPS problems.

PROBLEM AND POSSIBLE CAUSE	SOLUTION
UPS WILL NOT TURN ON	
Battery not connected properly.	Check that the battery connector is fully engaged.
 button not pushed. UPS not connected to utility power supply. Very low or no utility voltage.	Press the  button once to power the UPS and the connected equipment. Check that the power cable from the UPS to the utility power supply is securely connected at both ends. 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	
 button not pushed. Internal UPS fault.	Press the  button once to turn the UPS off. 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.
UPS DOES NOT PROVIDE EXPECTED BACKUP TIME	
The UPS battery is weak due to a recent outage or is near the end of its service life.	Charge the battery. Batteries require recharging after extended outages. They 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 lit.
ALL LEDs ARE LIT AND THE UPS EMITS A CONSTANT BEEPING	
Internal UPS fault.	Do not attempt to use the UPS. Turn the UPS off and have it serviced immediately.
FRONT PANEL LEDs FLASH SEQUENTIALLY	
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 PLUGGED INTO A WALL OUTLET	
The UPS is shut down and the battery is discharged from an extended outage.	None. The UPS will return to normal operation when the power is restored and the battery has a sufficient charge.

PROBLEM AND POSSIBLE CAUSE	SOLUTION
THE OVERLOAD LED IS LIT AND THE UPS EMITS A SUSTAINED ALARM TONE	
<p>The UPS is overloaded.</p>	<p>The connected equipment exceeds the specified “maximum load” as defined in <i>Specifications</i> at the APC web site, www.apc.com.</p> <p>The alarm remains on until the overload is removed. Disconnect nonessential equipment from the UPS to eliminate the overload.</p> <p>The UPS continues to supply power as long as it is online and the circuit breaker does not trip; the UPS will not provide power from batteries in the event of a utility voltage interruption.</p> <p>If a continuous overload occurs while the UPS is on battery, the unit turns off output in order to protect the UPS from possible damage.</p>
THE REPLACE BATTERY LED IS LIT	
<p>Replace Battery LED flashes and short beep is emitted every two seconds to indicate the battery is disconnected.</p> <p>Weak battery.</p> <p>Failure of a battery self-test.</p>	<p>Check that the battery connectors are fully engaged.</p> <p>Allow the battery to recharge for 24 hours. Then, perform a self-test. If the problem persists after recharging, replace the battery.</p> <p>The UPS emits short beeps for one minute and the <i>replace battery</i> LED illuminates. The UPS repeats the alarm every five hours. Perform the self-test procedure after the battery has charged for 24 hours to confirm the <i>replace battery</i> condition. The alarm stops and the LED clears if the battery passes the self-test.</p>
THE SITE WIRING FAULT LED IS LIT	
<p><i>120V models only.</i> Site wiring LED on rear panel .</p> <p>The UPS is plugged into an improperly wired utility power outlet.</p>	<p>Wiring faults detected include missing ground, hot-neutral polarity reversal, and overloaded neutral circuit.</p> <p>Contact a qualified electrician to correct the building wiring.</p>
THE INPUT CIRCUIT BREAKER TRIPS	
<p>The plunger on the circuit breaker (located to the right of the input cable connection) pops out. .</p>	<p>Reduce the load on the UPS by unplugging equipment and press the plunger in.</p>
AVR BOOST OR AVR TRIM LEDs LIGHT	
<p>Your system is experiencing excessive periods of low or high voltage.</p>	<p>Have qualified service personnel check your facility for electrical problems. If the problem continues, contact the utility company for further assistance.</p>

PROBLEM AND POSSIBLE CAUSE	SOLUTION																					
THERE IS NO UTILITY POWER AND THE UPS HAS BEEN TURNED OFF																						
<p><i>120V/230V Models:</i> When the UPS is off and there is no utility power, use the cold start feature to apply power to the connected equipment from the UPS battery. Cold start is not a normal condition.</p>	<p>Press and hold the  button, (for about 3 seconds). The unit will beep, the LED lights will flash, and the unit will beep a second time. Release the ON button during the second beep. This will supply immediate power to the UPS and the connected equipment. Make sure connected equipment is switched to ON.</p>																					
UPS OPERATES ON BATTERY ALTHOUGH NORMAL LINE VOLTAGE EXISTS																						
<p>UPS input circuit breaker tripped.</p> <p>Very high, low, or distorted line voltage. Inexpensive fuel powered generators can distort the voltage.</p>	<p>Reduce the load on the UPS by unplugging equipment and resetting the circuit breaker (on the back of UPS) by pressing the plunger in.</p> <p>Move the UPS to a different outlet on a different circuit. Test the input voltage with the utility voltage display (see below). If acceptable to the connected equipment, reduce the UPS sensitivity.</p>																					
BATTERY CHARGE AND BATTERY LOAD LEDs FLASH SIMULTANEOUSLY																						
<p>The internal temperature of the UPS has exceeded the allowable threshold for safe operation.</p>	<p>Check that the room temperature is within the specified limits for operation.</p> <p>Check that the UPS is properly installed allowing for adequate ventilation.</p> <p>Allow the UPS to cool down. Restart the UPS. If the problem continues contact APC at, www.apc.com/supoport.</p>																					
DIAGNOSTIC UTILITY VOLTAGE FEATURE																						
<p>Utility Voltage</p> <table border="0"> <tr> <td>100V</td> <td>120V</td> <td>230V</td> </tr> <tr> <td>○ 119</td> <td>○ 133</td> <td>○ 266</td> </tr> <tr> <td>○ 109</td> <td>○ 123</td> <td>○ 248</td> </tr> <tr> <td>○ 100</td> <td>○ 115</td> <td>○ 229</td> </tr> <tr> <td>○ 91</td> <td>○ 105</td> <td>○ 210</td> </tr> <tr> <td>○ 81</td> <td>○ 98</td> <td>○ 191</td> </tr> <tr> <td></td> <td>Battery Charge</td> <td></td> </tr> </table>	100V	120V	230V	○ 119	○ 133	○ 266	○ 109	○ 123	○ 248	○ 100	○ 115	○ 229	○ 91	○ 105	○ 210	○ 81	○ 98	○ 191		Battery Charge		<p>The UPS has a diagnostic feature that displays the utility voltage. Plug the UPS into the normal utility power.</p> <p>Press and hold the  button to view the utility voltage bar graph display. After a few seconds the five-LED, Battery Charge, , display on the right of the front panel shows the utility input voltage.</p> <p>Refer to the figure at left for the voltage reading (values are not listed on the UPS).</p> <p>The display indicates the voltage is between the displayed value on the list and the next higher value.</p> <p>Three LEDs light, indicating utility voltage within the normal range.</p> <p>If no LEDs are lit and the UPS is plugged into a working utility power outlet, the line voltage is extremely low.</p> <p>If all five LEDs are lit, the line voltage is extremely high and should be checked by an electrician.</p>
100V	120V	230V																				
○ 119	○ 133	○ 266																				
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○ 100	○ 115	○ 229																				
○ 91	○ 105	○ 210																				
○ 81	○ 98	○ 191																				
	Battery Charge																					
	<p>The UPS starts a self-test as part of this procedure. The self-test does not affect the voltage display.</p>																					

Service

If the UPS requires service do not return it to the dealer. Instead, follow these steps:

1. Review the problems discussed in the *Troubleshooting* section of this manual to eliminate common problems.
2. If the problem persists, contact APC Customer Service through the APC web site, www.apc.com/support.
 - 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 try to solve it over the phone, if possible. If this is not possible, the technician will issue a Returned Material Authorization Number (RMA#).
 - If the UPS is under warranty, repairs are free. If not, there is a repair charge.
3. Pack the UPS in its original packaging. If the original packing is not available, refer to the APC web site, www.apc.com/support, for information about obtaining a new set.
 - Pack the UPS properly to avoid damage in transit. Never use Styrofoam beads for packaging. Damage sustained in transit is not covered under warranty.



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

The battery may remain in the UPS; it does not have to be removed.

4. Mark the RMA# on the outside of the package.
5. Return the UPS by insured, prepaid carrier to the address given to you by Customer Service.

Contacting APC

USA-	Outside the USA-
Refer to the APC web site, www.apc.com/support .	Refer to the APC web site, www.apc.com . Select the appropriate country from the country selection field. Select the <i>Support</i> tab at the top of the web page.

6: REGULATORY AND WARRANTY INFORMATION

Regulatory Agency Approvals and Radio Frequency Warnings

230V MODELS



This is a Class A product. In a domestic environment this product may cause radio interference, in which case the user may be required to take corrective actions.

120V MODELS



This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Shielded signal cables must be used with this product to ensure compliance with the Class A FCC limits.

BSMI



警告使用者：
這是甲類的資訊產品，在居住的
環境中使用時，可能會造成射頻
干擾，在這種情況下，使用者會
被要求採取某些適當的對策。

100V 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。 VCCI-A

Declaration of Conformity



EC Declaration of Conformity

Date of Product Declaration 2002

We, the undersigned, declare under our sole responsibility that the equipment specified below conforms to the following standards and directives:

Harmonized Standards:

EN55022; EN50091-2; En60950;
EN50091-1-1, 2; 55024; IEC60950;
EN61000-3-2, 3-3, 4-2, 4-3, 4-4, 4-5, 4-6, 4-8, 4-11

Applicable Council Directives:

73/23/EEC, 93/68/EEC
89/336/EEC, 92/31/EEC, 91/157/EEC

Type of Equipment:

Uninterruptible Power Supply

Model Numbers:

SUA750RM2U, SUA1000RM2U, SUA1500RM2U,
SUA750RM12U, SUA1000RM12U, SUA1500RM12U,
SUA750RM12U, SUA1000RM12U, SUA1500RM12U

Importer:

American Power Conversion
Ballybritt Business Park
Galway, Ireland

Place:

Galway, Ireland

Ray S. Ballard Managing Director, Europe

5 Jan 02

Manufacturers:

American Power Conversion
Ballybritt Business Park
Galloway, Ireland

American Power Conversion
Breaffly Rd.
Castelbar
Co Mayo, Ireland

American Power Conversion
132 Fairgrounds Rd.
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