



User Manual

English

APC Smart-UPS[®]

**1000/1500 VA
100/120/230 VAC**

**750/1000XL VA
120/230 VAC**

**Tower
Uninterruptible Power Supply**

Introduction

American Power Conversion Corporation (APC) is the leading national and international manufacturer of state-of-the-art uninterruptible power supplies, redundant switches, power management software, and related equipment. APC products protect hardware, software, and data from power disturbances in business and government offices throughout the world.

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, a literature kit containing one CD, one serial cable, one USB cable, product documentation and Safety Information.

230V models: Two IEC jumper cables are included for use on servers with permanently attached power cords.



The UPS is shipped with the battery disconnected.

Positioning the UPS

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.

PLACEMENT

0°- 40°C (32°-104°F)

0-95% Relative

Humidity

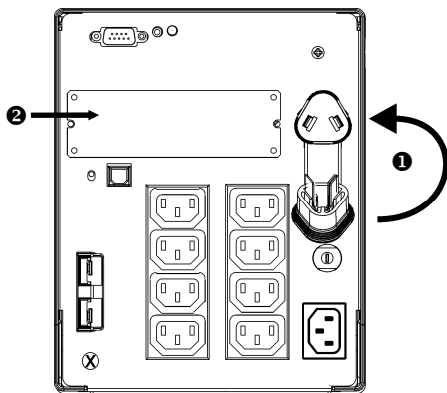
2.5cm (1in)



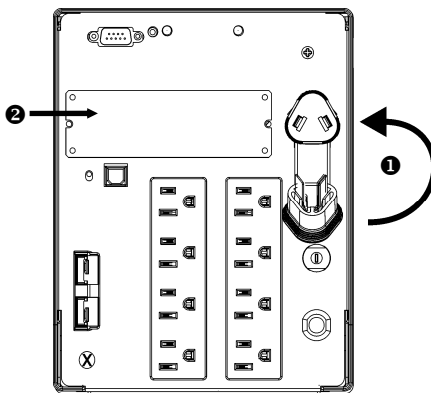
Connecting Equipment and Power to the UPS


SMART-UPS REAR PANEL

230V MODELS



120V/100V MODELS



1. **Plug in the battery connector ①.**
2. 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.**
3. Add any optional accessories to the Smart-Slot ②.
4. Using the power cord, plug the UPS into a two-pole, three-wire, grounded receptacle only. Avoid using extension cords.
 - *120V/100V models:* The power cord is permanently attached to the rear panel of the UPS.
5. 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.
6. 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 three 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.
7. For additional computer system security, install PowerChutePlus[®] UPS Power Management and Diagnostic 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 the 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.

External Battery Pack Connector



XL models: Use the battery pack connector to connect optional external battery pack(s). These units support up to ten external battery packs.

See the APC web site, www.apc.com/support for the correct external battery pack model number for your UPS.

Note: UPS only supports Sealed Maintenance-Free (SMF) batteries.

TVSS Screw

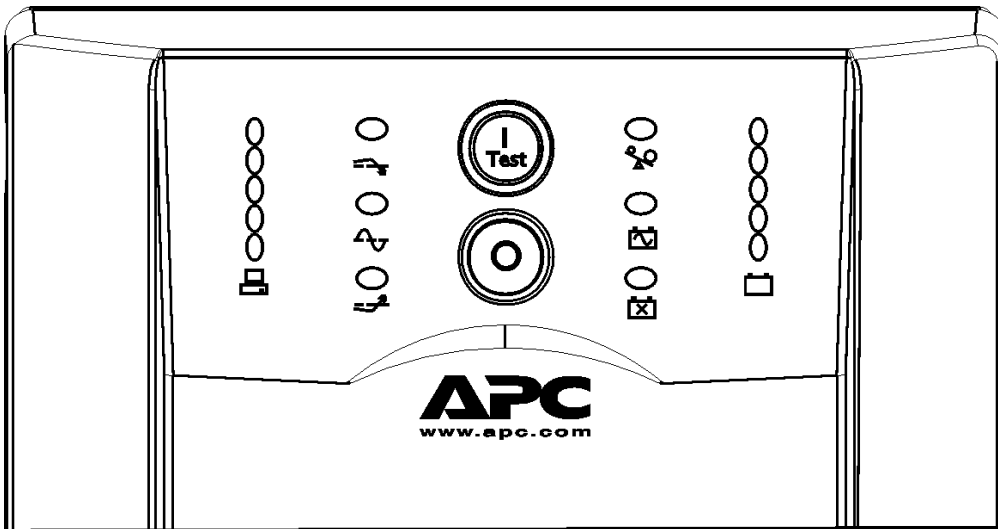
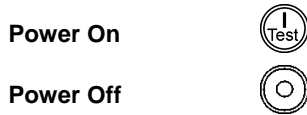


The UPS features a transient voltage surge-suppression (TVSS) screw for connecting the ground lead on surge suppression devices such as telephone and network line protectors.

When connecting grounding cable, disconnect the unit from the utility power outlet.

2: OPERATION

SMART-UPS FRONT PANEL



Load

120V	230V/100V
0 84%	0 84%
0 67%	0 67%
0 50%	0 50%
0 33%	0 33%
0 16%	0 16%

Load



Battery Charge

120V	230V/100V
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 power down before the UPS turns off.

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.

<i>FUNCTION</i>	<i>FACTORY DEFAULT</i>	<i>USER SELECTABLE CHOICES</i>	<i>DESCRIPTION</i>
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, (ie. 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, 30, 45, 50, 60, 75, 90 percent	The UPS will charge its batteries to the specified percentage before return from a shutdown.
<p>Voltage Sensitivity</p> <p>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.</p>	 high  medium  low	<p>Brightly lit: UPS is set to <i>high</i> sensitivity (default).</p> <p>Dimly lit: UPS is set to <i>medium</i> sensitivity.</p> <p>Off: Low battery warning interval is about eight minutes.</p>	<p>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.</p> <p>You can change the sensitivity level through PowerChute software.</p>
Alarm Control	Enable	Mute, Disable	User can mute an ongoing alarm or disable all existing alarms permanently.
Shutdown Delay	90 seconds	0, 180, 270, 360, 450, 540, 630 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.

FUNCTION	FACTORY DEFAULT	USER SELECTABLE CHOICES	DESCRIPTION
<p>Low Battery Warning.</p> <p>PowerChute interface software provides automatic, unattended shut-down when approximately two minutes (by default) of battery operated run time remains.</p>	 2 min.  5 min.  8 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>Possible interval settings: 2, 5, 8, 11, 14, 17, 20, 23 minutes.</p>	<p>The low battery warning beeps are continuous when two minutes of run time remain.</p> <p>To change the warning interval default setting, press the <i>voltage sensitivity</i> button (use a pointed object such as a pen to do so), while pressing and holding the  button (front panel).</p>
Synchronized Turn-on Delay	0 seconds	60, 120, 180, 240, 300, 360, 420 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><i>230V models:</i> 253VAC</p> <p><i>120V models:</i> 127VAC</p> <p><i>100V models:</i> 108VAC</p>	<p><i>230V models:</i> 257, 261, 265VAC</p> <p><i>120V models:</i> 130, 133, 136VAC</p> <p><i>100V models:</i> 110, 112, 114VAC</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><i>230V models:</i> 208VAC</p> <p><i>120V models:</i> 106VAC</p> <p><i>100V models:</i> 92VAC</p>	<p><i>230V models:</i> 196, 200, 204VAC</p> <p><i>120V models:</i> 97, 100, 103VAC</p> <p><i>100V models:</i> 86, 88, 90VAC</p>	Set the low transfer point lower if the utility voltage is chronically low and the connected equipment can tolerate this condition.
Output Voltage	<i>230V models:</i> 230VAC	<i>230V models:</i> 220, 240VAC	<i>230V models ONLY</i> , allow the user to select the output voltage.

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

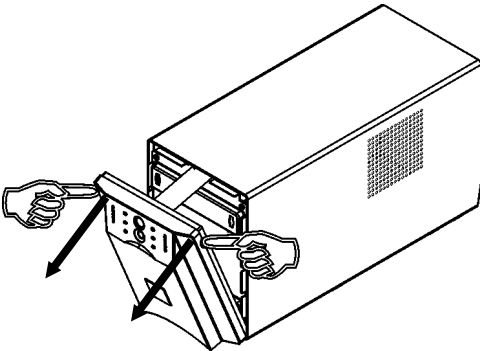


Once the battery is disconnected, the connected equipment is not protected from power outages.

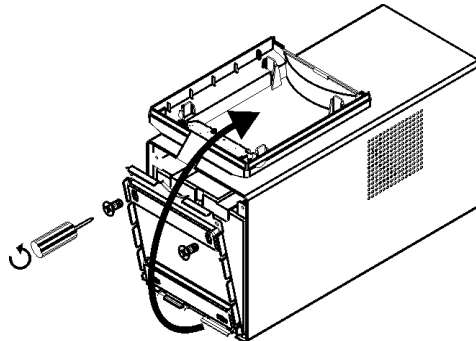
Be careful during the following steps-the battery module is heavy.

REMOVING THE FRONT BEZEL AND BATTERY MODULE

Step 1

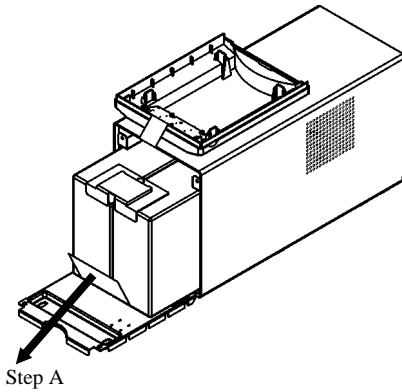


Step 2



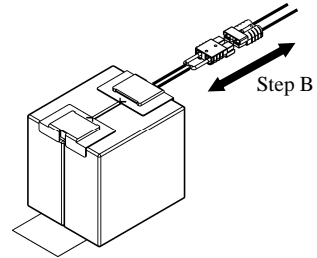
1500VA Model

Step 3



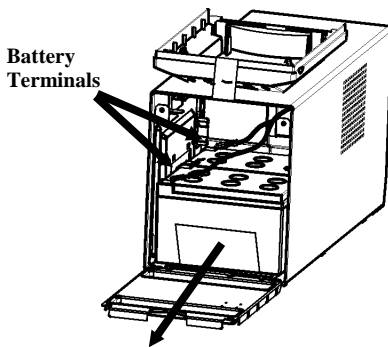
Pull the battery module out of the compartment until the back of the module is flush with the outer edges of the UPS.

Disconnect the battery connector.



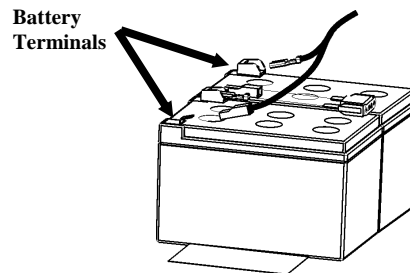
1000VA Model

Step 3



Disconnect the battery cable terminals before removing the battery module from the UPS.

Note: The red cable connects to the red color-coded terminal; the black cable connects to the black color-coded terminal. This will be important during the battery replacement procedure.



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

REPLACING THE BATTERY MODULE

To replace the battery module, reverse the directions above for *Removing the Front Bezel and Battery Module*.

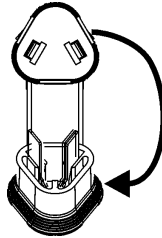
Disconnecting the Battery for Transport



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. Unplug the battery connector (rear panel).










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	
<p>Battery not connected properly.</p> <p> button not pushed.</p> <p>UPS not connected to utility power supply.</p> <p>Very low or no utility voltage.</p>	<p></p> <p>Check that the battery connector (rear panel) is fully engaged.</p> <p>Press the  button once to power the UPS and the connected equipment.</p> <p>Check that the power cable from the UPS to the utility power supply is securely connected at both ends.</p> <p>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.</p>
UPS WILL NOT TURN OFF	
Internal UPS fault.	Do not attempt to use the UPS. Unplug the UPS and have it serviced immediately.
UPS BEEPS OCCASIONALLY	
Normal UPS operation.	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>The site wiring LED is lit  (rear panel).</p> <p><i>120V models only.</i></p>	<p>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.</p>
THE INPUT CIRCUIT BREAKER TRIPS	
<p>The plunger on the circuit breaker (located above the input cable connection) pops out.</p> <p></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>AVR Boost or Trim LEDs light</p> <p>Your system is experiencing excessive periods of low r 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																		
UTILITY CIRCUIT BREAKER TRIPS																			
Utility circuit breaker trips during normal operation.	<i>100V models:</i> In order to operate at the full VA rating of the 1500VA product, the supplied 15A plug must be replaced with a 20A plug. This change must be performed by qualified service personnel.																		
UPS OPERATES ON BATTERY ALTHOUGH NORMAL LINE VOLTAGE EXISTS																			
UPS input circuit breaker tripped. Very high, low, or distorted line voltage. Inexpensive fuel powered generators can distort the voltage.	Reduce the load on the UPS by unplugging equipment and resetting the circuit breaker (on the back of UPS) by pressing the plunger in. 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.																		
BATTERY CHARGE AND BATTERY LOAD LEDs FLASH SIMULTANEOUSLY																			
UPS has shutdown. The internal temperature of the UPS has exceeded the allowable threshold for safe operation.	Check that the room temperature is within the specified limits for operation. Check that the UPS is properly installed allowing for adequate ventilation. Allow the UPS to cool down. Restart the UPS. If the problem continues contact APC at, www.apc.com/supoport .																		
DIAGNOSTIC UTILITY VOLTAGE FEATURE																			
<p>Utility Voltage</p> <table border="0"> <tr> <td>230V</td> <td>120V</td> <td>100V</td> </tr> <tr> <td>0266</td> <td>0133</td> <td>0119</td> </tr> <tr> <td>0248</td> <td>0123</td> <td>0109</td> </tr> <tr> <td>0229</td> <td>0115</td> <td>0100</td> </tr> <tr> <td>0210</td> <td>0105</td> <td>0091</td> </tr> <tr> <td>0191</td> <td>0098</td> <td>0081</td> </tr> </table> <p> Battery Charge </p>	230V	120V	100V	0266	0133	0119	0248	0123	0109	0229	0115	0100	0210	0105	0091	0191	0098	0081	<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>
230V	120V	100V																	
0266	0133	0119																	
0248	0123	0109																	
0229	0115	0100																	
0210	0105	0091																	
0191	0098	0081																	
	The UPS starts a self-test as part of this procedure. The self-test does not affect the voltage display.																		

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

Refer to the information provided at the APC Internet site,

<http://www.apc.com/support>.

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



LISTED 42C2
E95463



LR 63938



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.

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



LISTED 42C2
E95463

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。

Declaration of Conformity



2001

EC Declaration of Conformity

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

Standards to Which Conformity Declared: EN50091-1, EN60950, EN50091-1-1, IEC60950
EN55077, EN50091-2, EN61000-3-2, EN61000-3-3
7323/EEC, 92/68/EEC

Application of Council Directives: 89/336/EEC, 92/31/EEC, 91/157/EEC

Type of Equipment: Uninterruptible Power Supply

Model Numbers: SUA1500L, SUA1500I, SUA1000IX219,
SUA1500IX219, SUA750XLI, SUA1000XLI,
APC101A

Manufacturer's Name and Address: American Power Conversion
132 Fairgrounds Road
West Kingston, Rhode Island, 02892, USA

-or-
American Power Conversion (A. P. C.) b. v.

Ballybrinn Business Park
Galway, Ireland

-or-

American Power Conversion

Main Avenue, Peza
Rosario, Cavite, Philippines

-or-

American Power Conversion

2nd Street, Peza, Cavite Economic Zone
Rosario, Cavite Philippines

-or-

American Power Conversion

Lot 32 Phase 1 Carmelray Industrial Park
Canlubang, Calamba, Laguna Philippines

-or-

APC (Suzhou) UPS Co., Ltd.

No. 189 Subong Road, China-Singapore

Importer's Name and Address: Suzhou Industrial Park
Suzhou 215021, Jiangsu, P.R.C

American Power Conversion (A. P. C.) b. v.

Ballybrinn Business Park
Galway, Ireland

Place: N. Billerica, MA U.S.

 5 Jan 01

Richard J. Everett, Sr. Regulatory Compliance Engineer

Place: Galway, Ireland

 5 Jan 01

Ray S. Ballard, Managing Director, Europe
Phone: 353 917 02000 Fax: 353 9175 6909

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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