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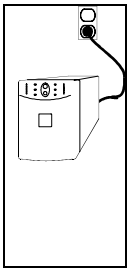
About Your New UPS

This Uninterruptible Power Supply (UPS) is designed to prevent blackouts, brownouts, sags and surges from reaching your computer and other valuable electronic equipment. This UPS also filters out small utility line fluctuations and isolates your equipment from large disturbances by internally disconnecting from the utility line, while supplying power from its internal batteries until the utility line returns to safe levels.

While running on battery, an internal alarm will sound (periodic beeps). The TEST/ALARM DISABLE button may be pressed to silence the UPS alarm.

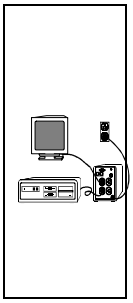
If the utility power does not return, the UPS will continue supplying power to the connected equipment until exhausted. A continuous beeping will sound two minutes before the UPS's final low battery shutdown. If using a computer, you must manually save your files and power down before the UPS turns itself off, unless you are using PowerChute interface software that provides automatic, unattended shutdown.

Installation and Setup



1. Install UPS

- Before plugging in the unit, install any SmartSlot accessories. Follow the installation instructions that come with the accessory.
- For 230V models, transfer the existing power cord from your server to the UPS and plug it into the power supply.
- For 100/120V models, plug the power cord attached to the UPS into the power supply.



2. Connect Equipment

- Do not power laser printers through the UPS.
- For 230V models, use the power cords included with the UPS to connect your computer and equipment to the UPS.
- For 100/120V models, use your equipment's power cords to connect to the UPS.
- Install PowerChute® black communication cable between UPS and computer.
- Turn on all connected equipment.

3. Turn on UPS

- Press the UPS's ON switch to turn on your UPS. This will power-up connected equipment.
- The unit performs a self-test automatically when turned on, and every two weeks thereafter.
- The UPS charges its battery whenever it is connected to utility power. The battery charges fully during the first 4 hours of normal operation. Do not expect full runtime during this initial charge period.

4. Install PowerChute®

For additional computer system security, install PowerChute® UPS monitoring software. It provides automatic unattended shutdown capabilities on most major network operating systems. See the ***Software Installation: Instruction Sheet*** for details.

Smart-UPS Quick Reference Guide - English

Troubleshooting

Use the chart below to solve minor UPS installation problems. Contact APC Technical Support Staff for assistance with complex UPS problems. See the ***User's Manual*** for a location near you.

Problem and Possible Cause	Solution
UPS will not turn on.	
• ON button not pushed.	Press the ON button once to power the UPS and the load.
• UPS not connected to AC power supply.	Check that the power cable from the UPS to the power supply is securely connected at both ends.
• UPS input circuit breaker tripped.	Reduce the load on the UPS by unplugging equipment and reset the circuit breaker (on back of UPS) by pressing the plunger back in.
• Very low or no utility voltage.	Check the AC power supply to the UPS with a table lamp. If very dim, have the utility voltage checked.
• Battery not connected properly.	Confirm the battery connections.
UPS will not turn off.	
Internal UPS fault.	Do not attempt to use the UPS. Unplug the UPS and have it serviced immediately.
UPS operates on-battery although normal line voltage exists.	
• UPS's input circuit breaker tripped.	Reduce the load on the UPS by unplugging equipment and reset the circuit breaker(on back of UPS) by pressing the plunger back in.
• Very high, low, or distorted line voltage. Inexpensive fuel powered generators can distort the voltage.	• Move the UPS to a different outlet on a different circuit. • Test the input voltage with the utility voltage display. If acceptable to the load, reduce the UPS's sensitivity. See ***User's Manual*** for procedures.
UPS beeps occasionally.	
Normal UPS operation.	None. The UPS is protecting the load.
UPS does not provide expected backup time.	
• The UPS's battery is weak due to recent outage or is near the end of its service life.	Charge the battery. Batteries require recharging after extended outages. Also, 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 replace battery indicator is not yet lit.
• The UPS is overloaded.	Check the UPS's load display. Unplug less needed equipment, such as printers.
Front panel indicators flash sequentially.	
The UPS has been shut down by remote control.	None. The UPS will restart automatically when utility power returns.
All indicators are lit and UPS emits a constant beeping .	
Internal UPS fault.	Do not attempt to use the UPS. Turn the UPS off and have it serviced immediately.
All indicators are off and UPS is plugged into 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.
The replace battery light is lit.	
• Weak batteries.	Allow the batteries to recharge for at least four hours. If the problem persists after recharging, replace the batteries.
• Replacement batteries not connected properly.	Confirm the battery connections.