

Initial Start-Up

For absolute maximum protection, please follow and review the following important start-up steps:

Inspection

Inspect the UPS upon receipt. Notify the vendor and dealer of there is damage. The packaging is recyclable; send it to the dealer or dispose of it properly.

Placement



Install the UPS in a protected area that is free of moisture and dust and has adequate air flow. The unit operates the UPS when the temperature and humidity is outside the operating limits.

Warning: A licensee or modification to this unit not explicitly approved by the party responsible for compliance could void the warranty.

Installation

To install the UPS, please follow the installation instructions in the Smart-UPS Quick Reference Guide.

This UPS is equipped with a Sensor Pilot for connectivity. See the APC Website (www.apc.com) for available accessories.

Check the Site Wiring Fault Indicator

Caution: If the site wiring fault indicator lights, get a qualified electrician to correct the building wiring.

Change the battery

The UPS charges its battery whenever it is connected to utility power. The battery will charge fully during the first 4 hours of normal operation. Do not expect full runtime during this initial charge period.

Operating Instructions

Switch On — Switch Off



With the UPS plugged in, press and release the large power control button to rapidly initiate the UPS operation in standby.

Press and release the small, lower-off button to turn off power to the loads. It may be convenient to use the UPS as a manual circuit breaker for the protected equipment.

Notes: Whenever the UPS is plugged in and utility voltage is present, the charge maintenance battery charge.

The on-line LED illuminates when the UPS is supplying utility power to the loads.

Self-test

The UPS performs a self-test automatically when turned on, and tests two system components: the battery, automatic self-test upon maintenance by connecting the load for periodic, manual self-test.

During the self-test, the UPS briefly operates the loads on battery. If the UPS powers the self-test, it returns to on-line operation.

If the UPS fails the self-test or immediately returns to on-line operation and lights the replace battery LED.

The load can not be affected by a failed test. Recharge the battery overnight and perform the self-test again. If the replace battery LED is still on, replace the battery using the Replacing the Battery procedure.

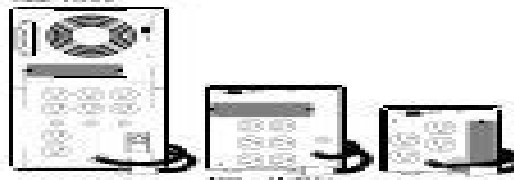
SmartPilot

The SmartPilot LED comes on or indicates that the UPS is compensating for a low voltage.

SmartBoost

The SmartBoost LED comes on to indicate that the UPS is compensating for a low voltage.

Rear Views



1500 and 2000 VA, 2500 and 3000 VA, 3500 and 4000 VA

Optional Computer Interface Port (Optional)
Power management software and interface kits can be used with the UPS. The only kit application approved by the manufacturer. Connect the interface cable to the "Data connector" interface port on the back panel of the UPS. Secure the connector's screws to complete the connection.

Connect Ground Leads to TNX8 Connector (Optional)

The UPS features a TNX8 connector for connecting the ground lead on transfer voltage range supervisor (TVSS) device such as telephones and network line protectors. The TNX8 connector provides grounding through the UPS's power and ground conductors. To make a connection to the TNX8 connector, loose the screw and connect the large supervisor device's ground lead. Tighten the screw to secure the lead.

Battery Pack Connector (2000 VA only)

Use the battery pack connector to connect the optional external battery pack.

On Battery

During on-battery operation, the on-battery LED illuminates and the UPS sounds an audible alarm consisting of four beeps every 30 seconds. The alarm stops when the UPS returns to on-line operation.

Low Battery

When the UPS is operating on battery and the charge reserve of the battery is low, the UPS's battery reserve level LED/UPS shows down from battery illumination of power to on-line operation.



Shutdown Mode

If there is no utility power present, a host system connected to the computer interface port can command the UPS to shut down. This is normally done to preserve battery capacity after a controlled shutdown of the protected system. In shutdown mode, the UPS does nothing but provide for the load, enabling for the return of utility power.

The UPS sends the front panel indicator sequentially in shutdown mode. If the UPS has shutdown due to low battery, the UPS lights the Battery Charge Bar Graph only. When the power is restored, the UPS returns to on-line operation.

Replace Battery

If the battery fails a self-test, the UPS sends short beeps for one minute and the replace battery LED illuminates. The UPS requires the owner-operate fire button. Therefore the self-test procedure to initiate replace battery condition. The alarm stops when the battery returns to on-line mode.

Load Bar Graph

The 1-4 LED display on the left of the front panel shows the power drawn from the UPS by the load. The display indicates the percentage of the UPS's rated capacity. For example, if three LEDs are lit, the load is drawing between 75% and 87.5% of the UPS's capacity. If all four LEDs light, the load may not exceed complete capacity to make sure that the UPS does not become overloaded.

Voltage Sensitivity

The UPS detects line voltage deviations such as sags, swells, dips, and surges, as well as abnormal conditions for equipment with sensitive load-powered processors. By default, the UPS sends no-disconnect by transferring to on-battery operation to protect the loads. When power quality is poor, the UPS may temporarily transfer to on-battery operation. If the loads are sensitive to utility power such as sensitive, battery backup and sensitive to may be connected by reducing the sensitivity of the UPS.

To reduce UPS sensitivity, press the configuration button on the rear panel. Use a pointed object such as a pen to press the button. Press it once to set the UPS's sensitivity to **Offload**. Press it again to set the sensitivity to **On**. Press the button a third time to turn on-line sensitivity.

Normal When the UPS is not in normal sensitivity, the configuration LED is lit. When it is set to **Offload**, the LED is lit. When it is set to **On**, the LED is off.

Low Battery Warning Interval

By default, the low battery warning interval when there are approximately two minutes of no-battery run time remaining. This interval can be changed to approximately 10 minutes when power is present.

To change the warning interval, press the rear panel configuration button while pressing and holding the **Emergency** button.

2 min Press the configuration button once to set the low battery warning interval to approximately 2 minutes. Press it again to set the interval to approximately 5 minutes. Press the button a third time to set the interval to the default.

Overload

When loads exceed the UPS's capacity, the overload LED illuminates, the UPS sends a continuous tone, and the input circuit breaker may trip the immediate owner change of the circuit breaker prior to it. The owner continues to avoid the overload is removed. Uninterrupted momentary load expansion from the UPS to eliminate the overload. If there is AC power and the circuit breaker does not trip during overload, the loads are still powered. If the circuit breaker trips and the UPS attempts to go on-battery, the output AC will shut down.

Cold Start

When the UPS is off and there is no utility power, it is possible to cold start the UPS to power the loads from the UPS's battery.

Caution: Cold start is not a recommended condition.

Press and hold the control button and the UPS begins to beep. Release the control button during the beeping to start the UPS.

Utility Voltage Bar Graph

This UPS has a display feature that displays the utility voltage. With the UPS plugged into the normal utility power, press and hold the control button to see the utility voltage bar graph display. After approximately four seconds the 5-LED display on the right of the front panel shows the utility voltage. 100% is the display below the bar graph display.



The display indicates that the voltage is between the displayed value down the bar and the next higher value. For example, with three LEDs lit, the input voltage is between 110V and 115V VAC.

If the LED is lit, the voltage is not within the range of the display. If the voltage is not within the range of the display, the input voltage is extremely low.

If all five LEDs come on, the input voltage is extremely high and should be checked by an electrician.

Notes: The UPS starts a self-test as part of the procedure. The self-test does not affect the utility voltage display.

Storage

Storage Conditions

Store the UPS covered and upright in a cool, dry location, with its battery fully charged. Before storing, charge the UPS for at least 4 hours. Disconnect any cables connected to the computer interface port to avoid unnecessarily draining the battery.

Extended storage

- At 10°C to 15°C, 15% to 18% RH, charge the UPS's battery every 6 months.
- At 15°C to 20°C, 15% to 18% RH to 10% RH, charge the UPS's battery every 3 months.

Apc Smart Ups 1400 Net User Manual

Albert A Gayle



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