

Initial Start-Up

For absolute maximum protection, please follow and review the following suggestions carefully.

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 convenience. 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 changes 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 or shutdown.

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 charges.

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 power maintenance by simulating the load for periodic, automatic 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 View



200V and 120V Input, 120V and 120V Output, 120V and 120V Output

Optional Computer Interface Port (Optional)
For 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 converter (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 suspension screw's ground lead. Tighten the screw to secure the lead.

Battery Pack Connector (200V 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 10 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 warning signal (the UPS shows down from battery) illuminates or beeps to on-line operation.

Battery Charge Bar Graph

The 5-LCD display on the right of the front panel shows the present charge of the UPS's battery as a percentage of the battery's capacity. When all five LEDs light, the battery is fully charged. The top LED goes out whenever the battery is not 100% charged. When the LEDs are flashing, the battery can supply load for 10-15 minutes before the battery warning signal of low for the load.

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 replace replace battery conditions. The alarm stops when the battery returns to on-line mode.

Load Bar Graph

The 5-LCD display on the left of the front panel shows the load of the UPS by the load. The display indicates the percentage of the UPS's rated capacity. For example, if there is 80% on the load, the load is operating between 80% and 90% of the UPS's capacity. If all five LEDs light, the UPS is operating at or above capacity to make sure that the UPS will 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 power and protection. By default, the UPS sends no deviation 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 warning and transfer to on-battery operation by subjecting 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 again 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 voltage sensitivity, the LED is lit. When it is set to line sensitivity, 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 Stop/Reset 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 sustained 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 sustained. Unbalanced non-sustained load equipment 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.

Notes: Cold start is not a recommended condition.

Procedure: Press and hold the control button and the UPS begins beeping.
• 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-LCD display on the right of the front panel shows the utility voltage. 100V to 120V is the range between the two voltage levels.

The display indicates that the voltage is between the displayed value (the bar) and the next higher value. For example, with three LEDs lit, the input voltage is between 110V and 120V. If the LED is lit, the input voltage is between 120V and 130V. If the LED is lit, the input voltage is between 130V and 140V. If the LED is lit, the input voltage is between 140V and 150V. If the LED is lit, the input voltage is between 150V and 160V. If the LED is lit, the input voltage is between 160V and 170V. If the LED is lit, the input voltage is between 170V and 180V. If the LED is lit, the input voltage is between 180V and 190V. If the LED is lit, the input voltage is between 190V and 200V. If the LED is lit, the input voltage is between 200V and 210V. If the LED is lit, the input voltage is between 210V and 220V. If the LED is lit, the input voltage is between 220V and 230V. If the LED is lit, the input voltage is between 230V and 240V. If the LED is lit, the input voltage is between 240V and 250V. If the LED is lit, the input voltage is between 250V and 260V. If the LED is lit, the input voltage is between 260V and 270V. If the LED is lit, the input voltage is between 270V and 280V. If the LED is lit, the input voltage is between 280V and 290V. If the LED is lit, the input voltage is between 290V and 300V. If the LED is lit, the input voltage is between 300V and 310V. If the LED is lit, the input voltage is between 310V and 320V. If the LED is lit, the input voltage is between 320V and 330V. If the LED is lit, the input voltage is between 330V and 340V. If the LED is lit, the input voltage is between 340V and 350V. If the LED is lit, the input voltage is between 350V and 360V. If the LED is lit, the input voltage is between 360V and 370V. If the LED is lit, the input voltage is between 370V and 380V. If the LED is lit, the input voltage is between 380V and 390V. If the LED is lit, the input voltage is between 390V and 400V. If the LED is lit, the input voltage is between 400V and 410V. If the LED is lit, the input voltage is between 410V and 420V. If the LED is lit, the input voltage is between 420V and 430V. If the LED is lit, the input voltage is between 430V and 440V. If the LED is lit, the input voltage is between 440V and 450V. If the LED is lit, the input voltage is between 450V and 460V. If the LED is lit, the input voltage is between 460V and 470V. If the LED is lit, the input voltage is between 470V and 480V. If the LED is lit, the input voltage is between 480V and 490V. If the LED is lit, the input voltage is between 490V and 500V. If the LED is lit, the input voltage is between 500V and 510V. If the LED is lit, the input voltage is between 510V and 520V. If the LED is lit, the input voltage is between 520V and 530V. If the LED is lit, the input voltage is between 530V and 540V. If the LED is lit, the input voltage is between 540V and 550V. If the LED is lit, the input voltage is between 550V and 560V. If the LED is lit, the input voltage is between 560V and 570V. If the LED is lit, the input voltage is between 570V and 580V. If the LED is lit, the input voltage is between 580V and 590V. If the LED is lit, the input voltage is between 590V and 600V. If the LED is lit, the input voltage is between 600V and 610V. If the LED is lit, the input voltage is between 610V and 620V. If the LED is lit, the input voltage is between 620V and 630V. If the LED is lit, the input voltage is between 630V and 640V. If the LED is lit, the input voltage is between 640V and 650V. If the LED is lit, the input voltage is between 650V and 660V. If the LED is lit, the input voltage is between 660V and 670V. If the LED is lit, the input voltage is between 670V and 680V. If the LED is lit, the input voltage is between 680V and 690V. If the LED is lit, the input voltage is between 690V and 700V. If the LED is lit, the input voltage is between 700V and 710V. If the LED is lit, the input voltage is between 710V and 720V. If the LED is lit, the input voltage is between 720V and 730V. If the LED is lit, the input voltage is between 730V and 740V. If the LED is lit, the input voltage is between 740V and 750V. If the LED is lit, the input voltage is between 750V and 760V. If the LED is lit, the input voltage is between 760V and 770V. If the LED is lit, the input voltage is between 770V and 780V. If the LED is lit, the input voltage is between 780V and 790V. If the LED is lit, the input voltage is between 790V and 800V. If the LED is lit, the input voltage is between 800V and 810V. If the LED is lit, the input voltage is between 810V and 820V. If the LED is lit, the input voltage is between 820V and 830V. If the LED is lit, the input voltage is between 830V and 840V. If the LED is lit, the input voltage is between 840V and 850V. If the LED is lit, the input voltage is between 850V and 860V. If the LED is lit, the input voltage is between 860V and 870V. If the LED is lit, the input voltage is between 870V and 880V. If the LED is lit, the input voltage is between 880V and 890V. If the LED is lit, the input voltage is between 890V and 900V. If the LED is lit, the input voltage is between 900V and 910V. If the LED is lit, the input voltage is between 910V and 920V. If the LED is lit, the input voltage is between 920V and 930V. If the LED is lit, the input voltage is between 930V and 940V. If the LED is lit, the input voltage is between 940V and 950V. If the LED is lit, the input voltage is between 950V and 960V. If the LED is lit, the input voltage is between 960V and 970V. If the LED is lit, the input voltage is between 970V and 980V. If the LED is lit, the input voltage is between 980V and 990V. 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If the LED is lit, the input voltage is between 1140V and 1150V. If the LED is lit, the input voltage is between 1150V and 1160V. If the LED is lit, the input voltage is between 1160V and 1170V. If the LED is lit, the input voltage is between 1170V and 1180V. If the LED is lit, the input voltage is between 1180V and 1190V. If the LED is lit, the input voltage is between 1190V and 1200V. If the LED is lit, the input voltage is between 1200V and 1210V. If the LED is lit, the input voltage is between 1210V and 1220V. If the LED is lit, the input voltage is between 1220V and 1230V. If the LED is lit, the input voltage is between 1230V and 1240V. If the LED is lit, the input voltage is between 1240V and 1250V. If the LED is lit, the input voltage is between 1250V and 1260V. If the LED is lit, the input voltage is between 1260V and 1270V. If the LED is lit, the input voltage is between 1270V and 1280V. If the LED is lit, the input voltage is between 1280V and 1290V. 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Apc Smart Ups 1400 Net User Manual

DP Hallahan



Apc Smart Ups 1400 Net User Manual:

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