

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 heat 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 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 ways thereafter: the default, automatic self-test upon maintenance by disconnecting the load for periodic, manual self-test.

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

If the UPS fails the self-test immediately after it attempts to return operation and lights the replace battery LED.

The load can not be turned 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



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 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 reaches a low level, the on-battery LED and the UPS alarm sound four beeps every 10 seconds to indicate a low battery condition.



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, making for the most of standby power.

The UPS sends the front panel indicator repeatedly 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 four 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 the battery is required. 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 load or draws 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-alarm 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 any for computer 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 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 the sensitivity off.

When the UPS is set to normal sensitivity, the configuration LED is lit. When it is set to voltage sensitivity, the LED is lit. When it is set to low 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 the power is restored.

To change the warning interval, press the rear panel configuration button while pressing and holding the Stop/Reset button.

Press the configuration button once to set the low battery warning interval to approximately 10 minutes. Press it again to set the interval to approximately 2 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 power out. The owner continues to reset the circuit breaker. Uninterrupted continuous load operation 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 1-4 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 (the bar) and the next higher value. For example, with three LEDs lit, the input voltage is between 110V and 125 VAC. If the LED is lit, the input voltage is between 125V and 140V. If the LED is lit, the input voltage is between 140V and 155V. If the LED is lit, the input voltage is between 155V and 170V. If the LED is lit, the input voltage is between 170V and 185V. If the LED is lit, the input voltage is between 185V and 200V. If the LED is lit, the input voltage is between 200V and 215V. If the LED is lit, the input voltage is between 215V and 230V. If the LED is lit, the input voltage is between 230V and 245V. If the LED is lit, the input voltage is between 245V and 260V. If the LED is lit, the input voltage is between 260V and 275V. If the LED is lit, the input voltage is between 275V and 290V. If the LED is lit, the input voltage is between 290V and 305V. If the LED is lit, the input voltage is between 305V and 320V. If the LED is lit, the input voltage is between 320V and 335V. If the LED is lit, the input voltage is between 335V and 350V. If the LED is lit, the input voltage is between 350V and 365V. If the LED is lit, the input voltage is between 365V and 380V. If the LED is lit, the input voltage is between 380V and 395V. If the LED is lit, the input voltage is between 395V and 410V. If the LED is lit, the input voltage is between 410V and 425V. If the LED is lit, the input voltage is between 425V and 440V. If the LED is lit, the input voltage is between 440V and 455V. If the LED is lit, the input voltage is between 455V and 470V. If the LED is lit, the input voltage is between 470V and 485V. If the LED is lit, the input voltage is between 485V and 500V. If the LED is lit, the input voltage is between 500V and 515V. If the LED is lit, the input voltage is between 515V and 530V. If the LED is lit, the input voltage is between 530V and 545V. If the LED is lit, the input voltage is between 545V and 560V. If the LED is lit, the input voltage is between 560V and 575V. If the LED is lit, the input voltage is between 575V and 590V. If the LED is lit, the input voltage is between 590V and 605V. If the LED is lit, the input voltage is between 605V and 620V. If the LED is lit, the input voltage is between 620V and 635V. If the LED is lit, the input voltage is between 635V and 650V. If the LED is lit, the input voltage is between 650V and 665V. If the LED is lit, the input voltage is between 665V and 680V. If the LED is lit, the input voltage is between 680V and 695V. If the LED is lit, the input voltage is between 695V and 710V. If the LED is lit, the input voltage is between 710V and 725V. If the LED is lit, the input voltage is between 725V and 740V. If the LED is lit, the input voltage is between 740V and 755V. If the LED is lit, the input voltage is between 755V and 770V. If the LED is lit, the input voltage is between 770V and 785V. If the LED is lit, the input voltage is between 785V and 800V. If the LED is lit, the input voltage is between 800V and 815V. If the LED is lit, the input voltage is between 815V and 830V. If the LED is lit, the input voltage is between 830V and 845V. If the LED is lit, the input voltage is between 845V and 860V. If the LED is lit, the input voltage is between 860V and 875V. If the LED is lit, the input voltage is between 875V and 890V. If the LED is lit, the input voltage is between 890V and 905V. If the LED is lit, the input voltage is between 905V and 920V. If the LED is lit, the input voltage is between 920V and 935V. If the LED is lit, the input voltage is between 935V and 950V. If the LED is lit, the input voltage is between 950V and 965V. If the LED is lit, the input voltage is between 965V and 980V. If the LED is lit, the input voltage is between 980V and 995V. If the LED is lit, the input voltage is between 995V and 1010V. If the LED is lit, the input voltage is between 1010V and 1025V. If the LED is lit, the input voltage is between 1025V and 1040V. If the LED is lit, the input voltage is between 1040V and 1055V. If the LED is lit, the input voltage is between 1055V and 1070V. If the LED is lit, the input voltage is between 1070V and 1085V. If the LED is lit, the input voltage is between 1085V and 1100V. If the LED is lit, the input voltage is between 1100V and 1115V. If the LED is lit, the input voltage is between 1115V and 1130V. If the LED is lit, the input voltage is between 1130V and 1145V. If the LED is lit, the input voltage is between 1145V and 1160V. If the LED is lit, the input voltage is between 1160V and 1175V. If the LED is lit, the input voltage is between 1175V and 1190V. If the LED is lit, the input voltage is between 1190V and 1205V. If the LED is lit, the input voltage is between 1205V and 1220V. If the LED is lit, the input voltage is between 1220V and 1235V. If the LED is lit, the input voltage is between 1235V and 1250V. If the LED is lit, the input voltage is between 1250V and 1265V. If the LED is lit, the input voltage is between 1265V and 1280V. If the LED is lit, the input voltage is between 1280V and 1295V. If the LED is lit, the input voltage is between 1295V and 1310V. If the LED is lit, the input voltage is between 1310V and 1325V. If the LED is lit, the input voltage is between 1325V and 1340V. If the LED is lit, the input voltage is between 1340V and 1355V. If the LED is lit, the input voltage is between 1355V and 1370V. If the LED is lit, the input voltage is between 1370V and 1385V. If the LED is lit, the input voltage is between 1385V and 1400V. If the LED is lit, the input voltage is between 1400V and 1415V. If the LED is lit, the input voltage is between 1415V and 1430V. If the LED is lit, the input voltage is between 1430V and 1445V. If the LED is lit, the input voltage is between 1445V and 1460V. If the LED is lit, the input voltage is between 1460V and 1475V. If the LED is lit, the input voltage is between 1475V and 1490V. If the LED is lit, the input voltage is between 1490V and 1505V. If the LED is lit, the input voltage is between 1505V and 1520V. If the LED is lit, the input voltage is between 1520V and 1535V. If the LED is lit, the input voltage is between 1535V and 1550V. If the LED is lit, the input voltage is between 1550V and 1565V. If the LED is lit, the input voltage is between 1565V and 1580V. If the LED is lit, the input voltage is between 1580V and 1595V. If the LED is lit, the input voltage is between 1595V and 1610V. If the LED is lit, the input voltage is between 1610V and 1625V. If the LED is lit, the input voltage is between 1625V and 1640V. If the LED is lit, the input voltage is between 1640V and 1655V. 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If the LED is lit, the input voltage is between 1880V and 1895V. If the LED is lit, the input voltage is between 1895V and 1910V. If the LED is lit, the input voltage is between 1910V and 1925V. If the LED is lit, the input voltage is between 1925V and 1940V. If the LED is lit, the input voltage is between 1940V and 1955V. If the LED is lit, the input voltage is between 1955V and 1970V. If the LED is lit, the input voltage is between 1970V and 1985V. If the LED is lit, the input voltage is between 1985V and 2000V. If the LED is lit, the input voltage is between 2000V and 2015V. If the LED is lit, the input voltage is between 2015V and 2030V. If the LED is lit, the input voltage is between 2030V and 2045V. If the LED is lit, the input voltage is between 2045V and 2060V. If the LED is lit, the input voltage is between 2060V and 2075V. If the LED is lit, the input voltage is between 2075V and 2090V. If the LED is lit, the input voltage is between 2090V and 2105V. If the LED is lit, the input voltage is between 2105V and 2120V. If the LED is lit, the input voltage is between 2120V and 2135V. If the LED is lit, the input voltage is between 2135V and 2150V. If the LED is lit, the input voltage is between 2150V and 2165V. If the LED is lit, the input voltage is between 2165V and 2180V. If the LED is lit, the input voltage is between 2180V and 2195V. If the LED is lit, the input voltage is between 2195V and 2210V. If the LED is lit, the input voltage is between 2210V and 2225V. If the LED is lit, the input voltage is between 2225V and 2240V. If the LED is lit, the input voltage is between 2240V and 2255V. If the LED is lit, the input voltage is between 2255V and 2270V. If the LED is lit, the input voltage is between 2270V and 2285V. If the LED is lit, the input voltage is between 2285V and 2300V. If the LED is lit, the input voltage is between 2300V and 2315V. If the LED is lit, the input voltage is between 2315V and 2330V. If the LED is lit, the input voltage is between 2330V and 2345V. If the LED is lit, the input voltage is between 2345V and 2360V. If the LED is lit, the input voltage is between 2360V and 2375V. If the LED is lit, the input voltage is between 2375V and 2390V. If the LED is lit, the input voltage is between 2390V and 2405V. If the LED is lit, the input voltage is between 2405V and 2420V. If the LED is lit, the input voltage is between 2420V and 2435V. If the LED is lit, the input voltage is between 2435V and 2450V. If the LED is lit, the input voltage is between 2450V and 2465V. If the LED is lit, the input voltage is between 2465V and 2480V. If the LED is lit, the input voltage is between 2480V and 2495V. If the LED is lit, the input voltage is between 2495V and 2510V. If the LED is lit, the input voltage is between 2510V and 2525V. If the LED is lit, the input voltage is between 2525V and 2540V. If the LED is lit, the input voltage is between 2540V and 2555V. 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If the LED is lit, the input voltage is between 3005V and 3020V. If the LED is lit, the input voltage is between 3020V and 3035V. If the LED is lit, the input voltage is between 3035V and 3050V. If the LED is lit, the input voltage is between 3050V and 3065V. If the LED is lit, the input voltage is between 3065V and 3080V. If the LED is lit, the input voltage is between 3080V and 3095V. If the LED is lit, the input voltage is between 3095V and 3110V. If the LED is lit, the input voltage is between 3110V and 3125V. If the LED is lit, the input voltage is between 3125V and 3140V. If the LED is lit, the input voltage is between 3140V and 3155V. If the LED is lit, the input voltage is between 3155V and 3170V. If the LED is lit, the input voltage is between 3170V and 3185V. If the LED is lit, the input voltage is between 3185V and 3200V. If the LED is lit, the input voltage is between 3200V and 3215V. If the LED is lit, the input voltage is between 3215V and 3230V. 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Apc Smart Ups 1400 Net User Manual

Minjie Lin



Apc Smart Ups 1400 Net User Manual:

Apc Smart Ups 1400 Net User Manual Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Apc Smart Ups 1400 Net User Manual**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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