

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 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 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 passes 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



Connect Computer Interface Port (Optional)

For system 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-Computer Interface" port on the back panel of the UPS. Secure the interface'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, loosen the screw and connect the large suspension 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.

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 alarm will sound 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 controls the front panel indicator accordingly 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 alarm sound beeps for one minute and the replace battery LED illuminates. The UPS requires the alarm every five hours. Therefore the self-test procedure to confirm replace battery condition. 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 or draws from the UPS by the load. The display indicates the percentage of the UPS's rated capacity. For example, if there 5 LEDs are lit, the load is drawing between 80% and 90% of the UPS's capacity. If all five LEDs light, the load is not more complete capacity to make sure that the UPS must 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 sounds no-alarm by transferring to on-battery operation to protect the loads. When power quality is poor, the UPS may temporarily lower the line-voltage regulation of the loads and operate normally under such conditions. Battery charging and conversion may be corrected by adjusting the sensitivity of the UPS.

To adjust 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 selected sensitivity.

Normal When the UPS is not in normal sensitivity, the configuration LED is lit. When it is set to voltage regulation, 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 power-out conditions occur.

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 sounds an audible alarm, and the input circuit breaker may trip the immediate power change of the circuit breaker trips out. The alarm continues as long as the overload is sustained. Uninterrupted overcurrent limit protection 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.

1. Press and hold the control button and the UPS begins beeping.

2. 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. 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 115 VAC. If the LED is lit, the voltage is not more than 115V. If the LED is lit, the input voltage is between 115V and 120 VAC. If the LED is lit, the input voltage is between 120V and 125 VAC. If the LED is lit, the input voltage is between 125V and 130 VAC. If the LED is lit, the input voltage is between 130V and 135 VAC. If the LED is lit, the input voltage is between 135V and 140 VAC. If the LED is lit, the input voltage is between 140V and 145 VAC. If the LED is lit, the input voltage is between 145V and 150 VAC. If the LED is lit, the input voltage is between 150V and 155 VAC. If the LED is lit, the input voltage is between 155V and 160 VAC. If the LED is lit, the input voltage is between 160V and 165 VAC. If the LED is lit, the input voltage is between 165V and 170 VAC. If the LED is lit, the input voltage is between 170V and 175 VAC. If the LED is lit, the input voltage is between 175V and 180 VAC. If the LED is lit, the input voltage is between 180V and 185 VAC. If the LED is lit, the input voltage is between 185V and 190 VAC. If the LED is lit, the input voltage is between 190V and 195 VAC. If the LED is lit, the input voltage is between 195V and 200 VAC. If the LED is lit, the input voltage is between 200V and 205 VAC. If the LED is lit, the input voltage is between 205V and 210 VAC. If the LED is lit, the input voltage is between 210V and 215 VAC. If the LED is lit, the input voltage is between 215V and 220 VAC. If the LED is lit, the input voltage is between 220V and 225 VAC. If the LED is lit, the input voltage is between 225V and 230 VAC. If the LED is lit, the input voltage is between 230V and 235 VAC. If the LED is lit, the input voltage is between 235V and 240 VAC. If the LED is lit, the input voltage is between 240V and 245 VAC. If the LED is lit, the input voltage is between 245V and 250 VAC. If the LED is lit, the input voltage is between 250V and 255 VAC. If the LED is lit, the input voltage is between 255V and 260 VAC. If the LED is lit, the input voltage is between 260V and 265 VAC. If the LED is lit, the input voltage is between 265V and 270 VAC. If the LED is lit, the input voltage is between 270V and 275 VAC. If the LED is lit, the input voltage is between 275V and 280 VAC. If the LED is lit, the input voltage is between 280V and 285 VAC. If the LED is lit, the input voltage is between 285V and 290 VAC. If the LED is lit, the input voltage is between 290V and 295 VAC. If the LED is lit, the input voltage is between 295V and 300 VAC. If the LED is lit, the input voltage is between 300V and 305 VAC. If the LED is lit, the input voltage is between 305V and 310 VAC. If the LED is lit, the input voltage is between 310V and 315 VAC. If the LED is lit, the input voltage is between 315V and 320 VAC. If the LED is lit, the input voltage is between 320V and 325 VAC. If the LED is lit, the input voltage is between 325V and 330 VAC. If the LED is lit, the input voltage is between 330V and 335 VAC. If the LED is lit, the input voltage is between 335V and 340 VAC. If the LED is lit, the input voltage is between 340V and 345 VAC. If the LED is lit, the input voltage is between 345V and 350 VAC. If the LED is lit, the input voltage is between 350V and 355 VAC. If the LED is lit, the input voltage is between 355V and 360 VAC. If the LED is lit, the input voltage is between 360V and 365 VAC. If the LED is lit, the input voltage is between 365V and 370 VAC. If the LED is lit, the input voltage is between 370V and 375 VAC. If the LED is lit, the input voltage is between 375V and 380 VAC. If the LED is lit, the input voltage is between 380V and 385 VAC. If the LED is lit, the input voltage is between 385V and 390 VAC. If the LED is lit, the input voltage is between 390V and 395 VAC. If the LED is lit, the input voltage is between 395V and 400 VAC. If the LED is lit, the input voltage is between 400V and 405 VAC. If the LED is lit, the input voltage is between 405V and 410 VAC. If the LED is lit, the input voltage is between 410V and 415 VAC. If the LED is lit, the input voltage is between 415V and 420 VAC. If the LED is lit, the input voltage is between 420V and 425 VAC. If the LED is lit, the input voltage is between 425V and 430 VAC. If the LED is lit, the input voltage is between 430V and 435 VAC. If the LED is lit, the input voltage is between 435V and 440 VAC. If the LED is lit, the input voltage is between 440V and 445 VAC. If the LED is lit, the input voltage is between 445V and 450 VAC. If the LED is lit, the input voltage is between 450V and 455 VAC. If the LED is lit, the input voltage is between 455V and 460 VAC. If the LED is lit, the input voltage is between 460V and 465 VAC. If the LED is lit, the input voltage is between 465V and 470 VAC. If the LED is lit, the input voltage is between 470V and 475 VAC. If the LED is lit, the input voltage is between 475V and 480 VAC. If the LED is lit, the input voltage is between 480V and 485 VAC. If the LED is lit, the input voltage is between 485V and 490 VAC. If the LED is lit, the input voltage is between 490V and 495 VAC. If the LED is lit, the input voltage is between 495V and 500 VAC. If the LED is lit, the input voltage is between 500V and 505 VAC. If the LED is lit, the input voltage is between 505V and 510 VAC. If the LED is lit, the input voltage is between 510V and 515 VAC. If the LED is lit, the input voltage is between 515V and 520 VAC. If the LED is lit, the input voltage is between 520V and 525 VAC. If the LED is lit, the input voltage is between 525V and 530 VAC. If the LED is lit, the input voltage is between 530V and 535 VAC. If the LED is lit, the input voltage is between 535V and 540 VAC. If the LED is lit, the input voltage is between 540V and 545 VAC. If the LED is lit, the input voltage is between 545V and 550 VAC. If the LED is lit, the input voltage is between 550V and 555 VAC. If the LED is lit, the input voltage is between 555V and 560 VAC. If the LED is lit, the input voltage is between 560V and 565 VAC. If the LED is lit, the input voltage is between 565V and 570 VAC. If the LED is lit, the input voltage is between 570V and 575 VAC. If the LED is lit, the input voltage is between 575V and 580 VAC. If the LED is lit, the input voltage is between 580V and 585 VAC. If the LED is lit, the input voltage is between 585V and 590 VAC. If the LED is lit, the input voltage is between 590V and 595 VAC. If the LED is lit, the input voltage is between 595V and 600 VAC. If the LED is lit, the input voltage is between 600V and 605 VAC. If the LED is lit, the input voltage is between 605V and 610 VAC. If the LED is lit, the input voltage is between 610V and 615 VAC. If the LED is lit, the input voltage is between 615V and 620 VAC. If the LED is lit, the input voltage is between 620V and 625 VAC. If the LED is lit, the input voltage is between 625V and 630 VAC. If the LED is lit, the input voltage is between 630V and 635 VAC. If the LED is lit, the input voltage is between 635V and 640 VAC. If the LED is lit, the input voltage is between 640V and 645 VAC. If the LED is lit, the input voltage is between 645V and 650 VAC. If the LED is lit, the input voltage is between 650V and 655 VAC. If the LED is lit, the input voltage is between 655V and 660 VAC. If the LED is lit, the input voltage is between 660V and 665 VAC. If the LED is lit, the input voltage is between 665V and 670 VAC. If the LED is lit, the input voltage is between 670V and 675 VAC. If the LED is lit, the input voltage is between 675V and 680 VAC. If the LED is lit, the input voltage is between 680V and 685 VAC. If the LED is lit, the input voltage is between 685V and 690 VAC. If the LED is lit, the input voltage is between 690V and 695 VAC. If the LED is lit, the input voltage is between 695V and 700 VAC. If the LED is lit, the input voltage is between 700V and 705 VAC. If the LED is lit, the input voltage is between 705V and 710 VAC. If the LED is lit, the input voltage is between 710V and 715 VAC. If the LED is lit, the input voltage is between 715V and 720 VAC. If the LED is lit, the input voltage is between 720V and 725 VAC. If the LED is lit, the input voltage is between 725V and 730 VAC. If the LED is lit, the input voltage is between 730V and 735 VAC. If the LED is lit, the input voltage is between 735V and 740 VAC. If the LED is lit, the input voltage is between 740V and 745 VAC. If the LED is lit, the input voltage is between 745V and 750 VAC. If the LED is lit, the input voltage is between 750V and 755 VAC. If the LED is lit, the input voltage is between 755V and 760 VAC. If the LED is lit, the input voltage is between 760V and 765 VAC. If the LED is lit, the input voltage is between 765V and 770 VAC. If the LED is lit, the input voltage is between 770V and 775 VAC. If the LED is lit, the input voltage is between 775V and 780 VAC. If the LED is lit, the input voltage is between 780V and 785 VAC. If the LED is lit, the input voltage is between 785V and 790 VAC. If the LED is lit, the input voltage is between 790V and 795 VAC. If the LED is lit, the input voltage is between 795V and 800 VAC. If the LED is lit, the input voltage is between 800V and 805 VAC. If the LED is lit, the input voltage is between 805V and 810 VAC. If the LED is lit, the input voltage is between 810V and 815 VAC. If the LED is lit, the input voltage is between 815V and 820 VAC. If the LED is lit, the input voltage is between 820V and 825 VAC. If the LED is lit, the input voltage is between 825V and 830 VAC. If the LED is lit, the input voltage is between 830V and 835 VAC. If the LED is lit, the input voltage is between 835V and 840 VAC. If the LED is lit, the input voltage is between 840V and 845 VAC. If the LED is lit, the input voltage is between 845V and 850 VAC. If the LED is lit, the input voltage is between 850V and 855 VAC. If the LED is lit, the input voltage is between 855V and 860 VAC. If the LED is lit, the input voltage is between 860V and 865 VAC. If the LED is lit, the input voltage is between 865V and 870 VAC. If the LED is lit, the input voltage is between 870V and 875 VAC. If the LED is lit, the input voltage is between 875V and 880 VAC. If the LED is lit, the input voltage is between 880V and 885 VAC. If the LED is lit, the input voltage is between 885V and 890 VAC. If the LED is lit, the input voltage is between 890V and 895 VAC. If the LED is lit, the input voltage is between 895V and 900 VAC. If the LED is lit, the input voltage is between 900V and 905 VAC. If the LED is lit, the input voltage is between 905V and 910 VAC. If the LED is lit, the input voltage is between 910V and 915 VAC. If the LED is lit, the input voltage is between 915V and 920 VAC. If the LED is lit, the input voltage is between 920V and 925 VAC. If the LED is lit, the input voltage is between 925V and 930 VAC. If the LED is lit, the input voltage is between 930V and 935 VAC. If the LED is lit, the input voltage is between 935V and 940 VAC. If the LED is lit, the input voltage is between 940V and 945 VAC. If the LED is lit, the input voltage is between 945V and 950 VAC. If the LED is lit, the input voltage is between 950V and 955 VAC. If the LED is lit, the input voltage is between 955V and 960 VAC. If the LED is lit, the input voltage is between 960V and 965 VAC. If the LED is lit, the input voltage is between 965V and 970 VAC. If the LED is lit, the input voltage is between 970V and 975 VAC. If the LED is lit, the input voltage is between 975V and 980 VAC. If the LED is lit, the input voltage is between 980V and 985 VAC. If the LED is lit, the input voltage is between 985V and 990 VAC. If the LED is lit, the input voltage is between 990V and 995 VAC. If the LED is lit, the input voltage is between 995V and 1000 VAC. If the LED is lit, the input voltage is between 1000V and 1005 VAC. If the LED is lit, the input voltage is between 1005V and 1010 VAC. If the LED is lit, the input voltage is between 1010V and 1015 VAC. If the LED is lit, the input voltage is between 1015V and 1020 VAC. If the LED is lit, the input voltage is between 1020V and 1025 VAC. If the LED is lit, the input voltage is between 1025V and 1030 VAC. If the LED is lit, the input voltage is between 1030V and 1035 VAC. If the LED is lit, the input voltage is between 1035V and 1040 VAC. If the LED is lit, the input voltage is between 1040V and 1045 VAC. If the LED is lit, the input voltage is between 1045V and 1050 VAC. If the LED is lit, the input voltage is between 1050V and 1055 VAC. If the LED is lit, the input voltage is between 1055V and 1060 VAC. If the LED is lit, the input voltage is between 1060V and 1065 VAC. If the LED is lit, the input voltage is between 1065V and 1070 VAC. If the LED is lit, the input voltage is between 1070V and 1075 VAC. If the LED is lit, the input voltage is between 1075V and 1080 VAC. If the LED is lit, the input voltage is between 1080V and 1085 VAC. If the LED is lit, the input voltage is between 1085V and 1090 VAC. If the LED is lit, the input voltage is between 1090V and 1095 VAC. If the LED is lit, the input voltage is between 1095V and 1100 VAC. If the LED is lit, the input voltage is between 1100V and 1105 VAC. If the LED is lit, the input voltage is between 1105V and 1110 VAC. If the LED is lit, the input voltage is between 1110V and 1115 VAC. If the LED is lit, the input voltage is between 1115V and 1120 VAC. If the LED is lit, the input voltage is between 1120V and 1125 VAC. If the LED is lit, the input voltage is between 1125V and 1130 VAC. If the LED is lit, the input voltage is between 1130V and 1135 VAC. If the LED is lit, the input voltage is between 1135V and 1140 VAC. If the LED is lit, the input voltage is between 1140V and 1145 VAC. If the LED is lit, the input voltage is between 1145V and 1150 VAC. If the LED is lit, the input voltage is between 1150V and 1155 VAC. If the LED is lit, the input voltage is between 1155V and 1160 VAC. If the LED is lit, the input voltage is between 1160V and 1165 VAC. If the LED is lit, the input voltage is between 1165V and 1170 VAC. If the LED is lit, the input voltage is between 1170V and 1175 VAC. If the LED is lit, the input voltage is between 1175V and 1180 VAC. If the LED is lit, the input voltage is between 1180V and 1185 VAC. If the LED is lit, the input voltage is between 1185V and 1190 VAC. If the LED is lit, the input voltage is between 1190V and 1195 VAC. If the LED is lit, the input voltage is between 1195V and 1200 VAC. If the LED is lit, the input voltage is between 1200V and 1205 VAC. 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If the LED is lit, the input voltage is between 1625V and 1630 VAC. If the LED is lit, the input voltage is between 1630V and 1635 VAC. If the LED is lit, the input voltage is between 1635V and 1640 VAC. If the LED is lit, the input voltage is between 1640V and 1645 VAC. If the LED is lit, the input voltage is between 1645V and 1650 VAC. If the LED is lit, the input voltage is between 1650V and 1655 VAC. If the LED is lit, the input voltage is between 1655

Apc Smart Ups 1400 Net User Manual

CH Cherryholmes



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