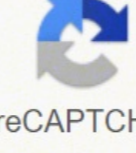
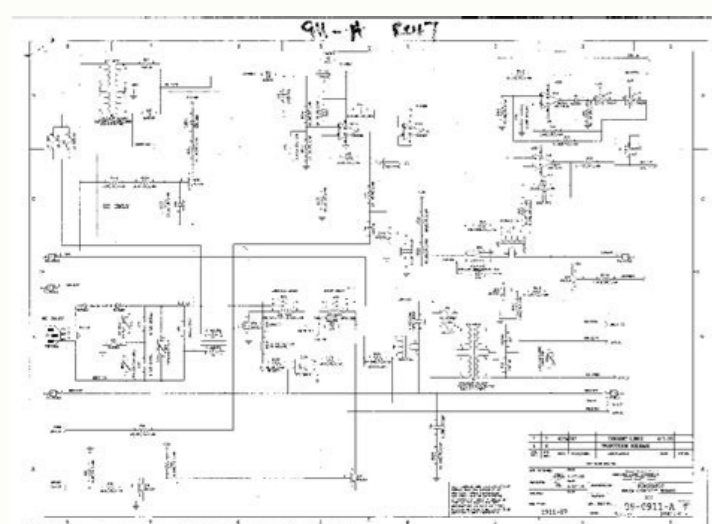


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**APC Back-UPS Pro®
1000/1050/1100/1400
User's Manual**

990-2012F Revision 7 12/03

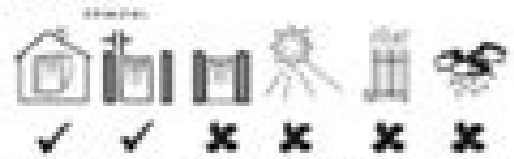
Installation and Initial Start-Up

To obtain warranty coverage, please fill out and return the warranty registration card now.

Inspection

Inspect the UPS upon receipt. Notify the carrier and dealer if there is damage. The packaging is recyclable; save it for reuse or dispose of it properly.

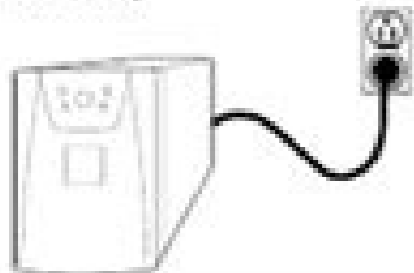
Placement



Install the UPS in a protected area that is free of excessive dust and has adequate air flow. Do not operate the UPS where the temperature and humidity is outside the specified limits.

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the warranty.

Connect to Utility

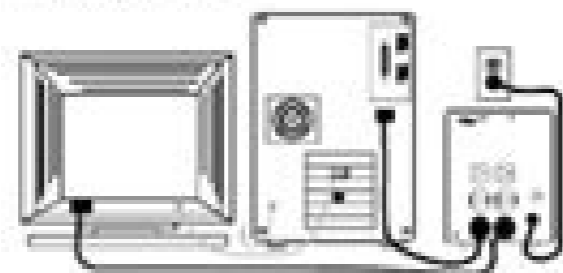


Check the Site Wiring Fault Indicator

Location: Top right corner of UPS back panel.
Caution: If the site wiring fault indicator lights, get a qualified electrician to correct the building wiring.

Connect the Loads

Plug the loads into the output connectors on the rear of the UPS. To use the UPS as a master "On/Off" switch, make sure that all of the loads are switched "On".



Caution: Do not connect a laser printer to the Battery Backup Outlets.

Battery Backup Outlets: These UPS outlets provide battery power and surge protection to equipment when utility voltage is outside acceptable limits. Data sensitive equipment such as a computer, monitor, or external drive are connected to these outlets.

Connect Telephone / Network Surge Suppression (Optional)

Connect a single line telephone or a 10Base-T/100Base-Tx network cable into the RJ-45/RJ-11 telephone/network surge protection "IN" jack on the back of the UPS. Connect from the "OUT" jack with telephone cable (supplied) or network cabling (not supplied) to a fax modem or network port.

Connect Computer Interface Port (Optional, BP1650/1190)

PowerChute® plus power management software is included with this UPS. Connect the supplied interface cable to the 9-pin computer interface port on the back panel of the UPS. Connect to the computer. See software documentation for installation instructions.

Charge 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 On/Off/Test button to supply power to the loads.

The UPS loads are immediately powered while the UPS performs a self-test. Press and release the button again to turn "Off" power to the loads. It may be convenient to use the UPS as a master "On/Off" switch for the protected equipment.

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

Self-test

The UPS performs a self-test automatically when turned "On", and every two weeks thereafter (by default). Automatic self-test eliminates the need for periodic manual self-tests.

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 it immediately returns to on-line operation and lights the replace battery LED.

The loads are not 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.

On-Battery

During on-battery operation, the on-battery LED illuminates and the UPS sounds an audible alarm consisting of 4 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 energy reserve of the battery runs low, the UPS beeps continuously until the UPS shuts down from battery exhaustion or returns to on-line operation.

Overload

When loads exceed the UPS capacity, the overload LED illuminates and the UPS emits a sustained tone. The alarm remains "On" until the overload is removed. Disconnect nonessential load equipment from the battery backup outlets, to eliminate the overload.

If the overload is severe, the input circuit breaker may trip (the resettable center plunger of the circuit breaker pops out), as well. Disconnect nonessential load equipment from the UPS to eliminate the overload and press the plunger back in to restart the UPS.

If there is AC power and the circuit breaker does not trip during overload, the loads are still powered. If the circuit breaker trips or the UPS attempts to transfer to battery, the loads' power will be shut "Off". Turn the UPS "Off" then back "On" to power the loads.

Replace Battery

If the battery fails a self-test, the UPS emits short beeps for one minute and the replace battery LED illuminates.

The UPS repeats the alarm every five hours. Perform the self-test procedure to confirm replace battery conditions. The alarm stops when the battery passes the self-test.

Shutdown Mode

If there is no power, the host 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 stops supplying power to the load. The on-line and overload LED indicators flash alternately or, if the UPS has shutdown due to a low battery, the UPS will beep once every 4 seconds for approximately 16 seconds. When line power is restored, the UPS will return to on-line operation.

Cold Start

Note: Cold start is not a normal operating condition.

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 battery.

- Press and hold the On/Off/Test button until the UPS begins beeping.
- Release the On/Off/Test button during the beeping to start the UPS.

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