

INTRODUCTION

Have you ever noticed your lights dim or flicker when you turn on your dishwasher or air conditioner? This common occurrence is attributed to an under-voltage of power, also known as a brownout.

A brownout is a period of insufficient power-line voltage. It is the most common power problem, accounting for 80% of all power disturbances.

Effects: A brownout can deprive a computer of the power it needs to function, causing unwanted damage to your computer—such as frozen keyboards and hard drive crashes. Such problems will cause you to incur computer repairs, lost data, and downtime.

Solution: A Belkin Uninterruptible Power Supply (UPS) unit protects against surges, spikes, swells, line-noise, brownouts, and blackouts! A surge protector can only protect your computer from over-voltages due to irregular power!

IMPORTANT SAFETY INSTRUCTIONS

Thank you for purchasing the Belkin Uninterruptible Power Supply (UPS). It will provide you with the best protection for your connected equipment.

Please Save This Manual!

It includes important instructions for the safe use of this UPS and for obtaining factory service should the proper operation of the UPS come into question.

Please Save or Recycle the Packaging Materials!

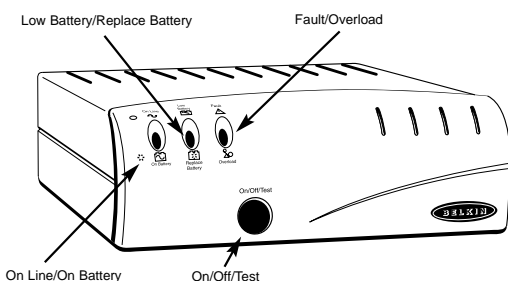
The UPS shipping materials were designed with great care to provide protection from transportation-related damage. These materials are invaluable if you ever have to return the UPS for service. Damage sustained during transit is not covered under the warranty.

Federal Communications Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. To assure continued compliance, use only shielded interface cables when connecting to computer or peripheral devices. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

FRONT PANEL

Press the button longer than three seconds to turn the UPS on or off. Press the button less than three seconds to activate the UPS self-testing or to silence the backup alarm.



OPERATION

Switch On

With the UPS plugged in, press and hold the on/off/test button for more than three seconds until the "ON LINE" LED lights up to switch the UPS on. The UPS will perform self-testing each time it is switched on. Note: The UPS maintains the battery charge when in the off position.

Switch Off

Press and hold the on/off/test button for more than three seconds until the "ON LINE" or "ON BATTERY" LED goes off.

Self-Test

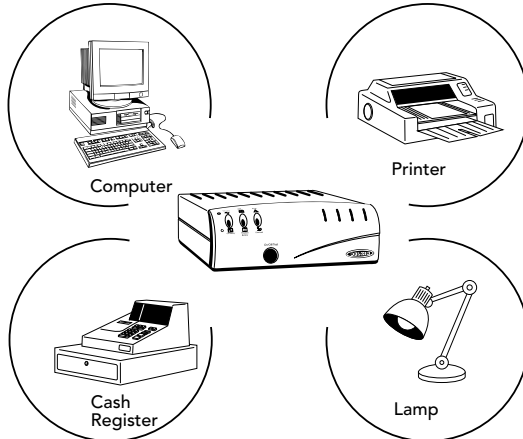
Use the self-test to verify both the operation of the UPS and the condition of the battery. In normal utility power, push the on/off/test button less than two seconds and the UPS performs a self-test function. During the self-test, the UPS operates in "BACKUP" mode.

Note

During the self-test, the UPS briefly operates "ON BATTERY" mode (the "REPLACE BATTERY" LED comes on). If the UPS passes the self-test, it returns to "ON LINE" operation. The "REPLACE BATTERY" LED goes off and the "ON LINE" LED goes on steady. If the UPS fails the self-test it immediately returns to on-line operation and flashes the "REPLACE BATTERY" LED. The loads are not affected. Recharge the battery overnight and perform the self-test again. If the "REPLACE BATTERY" LED is still on, the battery will need to be replaced; go to belkin.com.

Silence

In "BACKUP" mode, push the on/off/test button less than three seconds to silence the audible alarm. (The function is void when under condition of "LOW BATTERY".)



PRESENTATION

| LED | STEADY LIGHT ● BLINKING ☼ | MEANING |
|---|------------------------------|---|
| ON LINE/ ON BATTERY | GREEN ● ☼ | Utility is normal. Utility is abnormal, supplies power to outlets from battery source. |
| LOW BATTERY/ REPLACE BATTERY | YELLOW ● ☼ | Battery capacity is low. The UPS will start shutdown. The unit sounds an audible alarm. 1. The LED flashes eight seconds. It means the UPS is in the self-checking mode. 2. The LED flashes more than 10 seconds. It means the battery is bad or the charger is at fault. |
| FAULT/ OVERLOAD | RED ● ☼ | There is a problem with the UPS. The LED will be lit continuously and the unit will sound an audible alarm for 10 seconds. Battery output is drawing more power than the UPS can provide. |
| SITE WIRING FAULT (IN REAR PANEL) | RED ● | There is either no ground circuit or a reversed polarity in the building wiring. |

ALARM

Backup (Slow Alarm)

When in "BACKUP" mode, the GREEN LED illuminates and the UPS sounds an audible alarm. The alarm stops when the UPS returns to LINE NORMAL operation.

Low Battery (Rapid Alarm)

In "BACKUP" mode, when the battery energy runs low, the UPS beeps rapidly until the UPS shuts down from a depleted battery or returns to LINE NORMAL operation.

Overload (Continuous Alarm)

When the UPS is overloaded (the connected loads exceed the maximum rated capacity) the UPS emits a continuous alarm to warn of an overload condition. Disconnect nonessential equipment from the UPS to eliminate the overload.

Fault (10 Seconds Continuously)

When the output is shorted, the UPS emits a 10-second alarm. Disconnect the equipment from the UPS prior to checking the equipment.

REAR PANEL

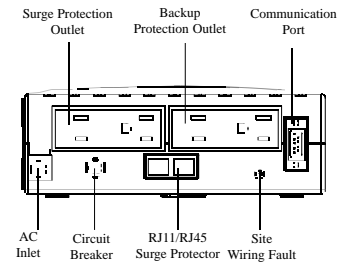
Interface Port

Provides RS232 to relay the signal to support DOS, Windows, and other operating systems.

Phone/Fax/Modem/DSL or Network Protection

Telephone/fax/modem lines are surge protected and provide complete safety for Internet connection. One input and one output allow two devices to be protected (i.e. modem and fax).

REAR PANEL (continued)



Site Wiring Fault Indicator

The Site Wiring Fault LED will illuminate when one of the following conditions exists:

1. Open or high-resistance ground
2. Hot and neutral polarity reversal
3. Overloaded neutral circuit

AC-Input Power Cord

Connect to the AC utility.

AC Input Breaker (Circuit Breaker)

The circuit breaker button will stick out if an overload condition forces the UPS to disconnect itself from utility power. If the button sticks out, disconnect nonessential equipment.

Battery Backup Outlets

Data-sensitive equipment such as a computer, monitor, and external drive should be powered by these outlets. Battery power is automatically provided in case of a power outage. Power (utility or battery) is not supplied to these outlets when the UPS is switched off. (Do not plug surge protectors, power strips, or laser printers into the battery backup outlets.)

Surge-Only Protected Outlets

Equipment such as a printer, fax machine, scanner, or a desk lamp should be powered by these outlets. These outlets do not provide power during a power outage. These outlets are always on (when utility power is available) and are not controlled by the front panel switch.

CONNECTING EQUIPMENT

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 all of the loads are switched on.

Caution

Never connect a laser printer or scanner to the backup outlets of a UPS with other computer equipment. A laser printer or scanner periodically draws significantly more power when in use than when idle. This may overload the UPS.

CONNECTING THE TELEPHONE/FAX/MODEM/DSL LINES

Connect a single telephone/fax/modem/DSL line into the surge-protected sockets on the back of the UPS. The RJ11 modular sockets accept standard single-line telephone connections. This connection will require another length of telephone cable (supplied).

Note! This connection is optional but highly suggested as phone/fax/modem/DSL lines often carry dangerous surges and spikes. The UPS works properly without a phone/fax/modem/DSL connection.

Caution! The telephone/fax/modem/DSL protection feature could be rendered inoperable if improperly installed.

Make sure that the telephone line from the wall is plugged into the connector marked "IN", and the device to be protected (telephone/fax/modem) is plugged into the connector marked "OUT".

INSTALLATION

Note

Before the installation, please inspect the UPS upon receipt. Make sure that everything inside the package is not damaged.

Connect to Utility

Connect the AC inlet to utility power via the power cord. Check if the "Site Wiring Fault" indicator is lit or not. If lit, please check the utility wiring. A "Site Wiring Fault" will void your Belkin warranty.

Charge the Battery

For best results, charge the battery for six hours prior to initial use. The UPS charges its battery whenever it is connected to the utility power.

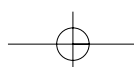


COMMUNICATION INTERFACE

Belkin Sentry Bulldog Shutdown Management Software and RS232 cable can be used with this UPS. If used, connect the interface cable to the computer interface port on the rear panel of the UPS, and then connect to the serial port on your PC.

The communication port provides the following features:

- 1) Monitors charger status
- 2) Monitors UPS status
- 3) Monitors battery status and condition
- 4) Monitors the utility status
- 5) Provides power-switch function for power saving



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