

**Introduction**

Thank you for purchasing the Battery Backup with Surge Protection (the Unit). Each year, frequent natural and man-made power disturbances disrupt the power supplied to your home or office electronics. These power problems place your hardware, software, and data at risk. Belkin Battery Backups provide an uninterruptible power supply (UPS) with advanced features as the industry-leading solution.

**Package Contents**

You should have received the following:

- 1 – Battery Backup unit
- 1 – Installation CD containing Belkin Automatic Power Management Software (the Belkin APM Software) for Windows
- 1 – USB Cable
- 1 – Phone-Line Cable

**System Requirements**

The Battery Backup can be used without the software with any computer using up to a 17" CRT or LCD monitor. You do not have to have the software installed to utilize the battery-backup outlets.

To fully utilize the Battery Backup and its software, your computer must be running one of the following operating systems: Windows XP / 2003 / 2000 / ME / 98 / NT 4.0 (SP6) or Linux, and have a USB port.

**Overview | Features and Functions**

Before installation, please inspect the Unit upon receipt. Make sure that nothing is damaged.

Your Battery Backup features three LED indicators. Each is marked by a power icon; please familiarize yourself with this chart, as it will assist you in the use of your Battery Backup. (See #4 on Fig. 1)

Chart 1

Indicator	Condition	Meaning
On-Line	o Solid Green	The Unit is operating and supplying the utility power to connect loads.
On-Battery Low Battery Replace Battery	* Flashing Yellow	When the Unit is operating from battery: 1. The light blinks every 10 seconds if the Unit is operating on battery mode. 2. The light illuminates rapidly every 1 second if the Unit's battery is very nearly depleted.  When the Unit is operating and supplying the utility power to connect loads, the LED flashes and the buzzer emits a sound every 1 minute to indicate the Unit's battery needs to be replaced.
UPS Fault	o Solid Yellow	The LED lights steadily and the buzzer beeps for 10 seconds if a battery fault is found.
Site Wiring Fault	o Solid Red	The "SITE WIRING FAULT" LED illuminates when one of the following conditions exist: 1. Open or high resistance ground 2. Hot and neutral polarities reversed

**Overview | Important Safety Instructions**

Please save this User Manual!

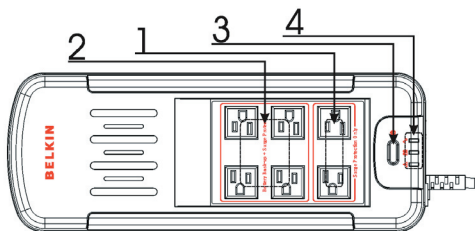
It contains important operating instructions and warranty information pertaining to your Battery Backup.

Please save or recycle the packaging materials!

The Unit's packaging was designed with great care to provide protection during shipment and delivery. These materials are invaluable if you ever have to return the Unit for service. Damage sustained during transit is not covered under the warranty.

**Overview | Top Panel**

Fig. 1



**1. Surge-Protected-Only Outlets (See #1 on Fig. 1)**

These outlets do not provide battery power during an outage. Do not plug surge protectors or power strips into the battery-backup outlets (i.e., daisy-chaining).

Equipment such as computer peripherals, printers, fax machines, or desk lamps may be plugged into these outlets. The On/Off button does not control these outlets.

**2. Battery-Backup Outlets (See #2 on Fig. 1)**

Only data-sensitive equipment such as a computer, monitor, and external drive should be plugged into these outlets. Battery power is automatically provided in case of a power outage. Power (AC or battery) is not supplied to these outlets when the Unit is switched off. (Do not plug surge protectors or power strips into the battery-backup outlets.)

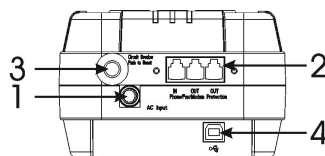
Caution: Never connect a laser printer or scanner to the backup outlets along with other computer equipment. To do so might overload the Unit.

**3. The "On/Off" button has four functions: (See #3 on Fig. 1)**

1. Turns on the Unit. Depress button at least two seconds. The green light illuminates.
2. Cold start function. If the battery is charged, the Unit will work without being plugged into an outlet. Depress and hold the key for at least two seconds to turn on the Unit.
3. Silence function. During "On Battery Mode", the audible sound can be turned "ON" or "OFF" by depressing the switch for less than 1.5 seconds.
4. Battery test function. During "On-Line Mode", depressing the switch for less than 1.5 seconds causes the Unit to perform a battery test in backup mode.

**Overview | Side Panel**

Fig. 2



**1. AC Input Power Cord (See #1 on Fig. 2)**

Provides power to your Battery Backup.

**2. Phone/Fax/Modem Surge Protection (See #2 on Fig. 2)**

The phone/fax/modem lines are surge-protected. There are one input jack and two output jacks. This allows you to split one telephone connection to two separate devices.

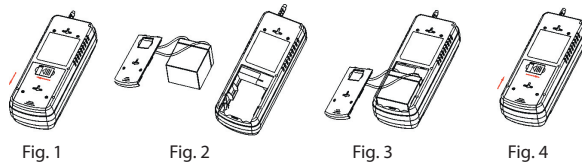
**3. AC Breaker (Circuit Breaker; see #3 on Fig. 2)**

Should a power overload occur, the circuit breaker triggers the Unit to turn off AC power. To restore power, depress the "circuit breaker" button to reset, then depress the "Power" button.

**4. USB Communication Port (See #4 on Fig. 2)**

The Unit features a USB communication port. Installation of the cable and the Bulldog Plus Software, which allows the Unit to connect to your computer, is optional. The Unit will provide backup power whether or not the cable and software are installed; however, without them you will be unable to utilize the data management product features.

**Battery Replacement Procedure**



Replacement requires removing the battery cover plate on the back or bottom of the Battery Backup. No tools are needed. To replace the battery:

1. Push the connector in the arrowhead direction.(Fig.1)
2. Remove the battery cover plate and the battery from the Unit(Fig.2)
3. Disconnect the insulated connectors from the battery terminals, and replace the new battery pack. (Fig. 3)
4. Close the battery cover plate, then lock the connector. (Fig.4).

**Overview | Alarms**

**Backup (Slow Alarm)**

When the Unit is in "backup" mode (running on battery), the YELLOW LED illuminates and the Unit emits an audible alarm. The alarm stops when the Unit returns to normal online operation.

**Low Battery (Rapid Alarm)**

In "backup" mode, when the battery energy runs low, the Unit beeps rapidly until it either shuts down from a depleted battery or returns to normal online operation.

**Fault (10 Seconds Continuously)**

When the Unit fails, it emits an audible alarm continuously for 10 seconds to warn of a fault condition. Disconnect the equipment prior to checking it.

**Overview | Storage**

**Storage Conditions**

Store the Unit covered and upright in a cool, dry location with its battery fully charged. Before storing, charge the Unit for at least six (6) hours.

**Extended Storage**

During extended storage in environments where the ambient temperature is +5° F to +86° F, charge the Unit's battery every six (6) months. During extended storage in environments where the ambient temperature is +86° F to +113° F, charge the Unit's battery every three (3) months.

Note:



**Overview | Technical Specifications**

Model	F6H375-USB	F6H550-USB	
Input	Rated Capacity	375VA/200W	550VA/300W
	Rated Voltage	104-137VAC	
	Phase/Freq.	Single-phase 60Hz	
Output	Voltage	Step wave	
	Frequency	60Hz	
Battery	Backup Time	Desktop computer +15" monitor 10 min.	Desktop computer +17" monitor 13 min.
	Recharge Time	16 hours to 90%	
Environment	Temperature	0~40°C	
	Humidity	0~90%	
Safety	Safety	UL1778 / c-UL	
Regulation	EMI	FCC Class B	
	EMS	IEEE C62.41 category A/IEC1000-4-5 / Level 2	
Appearance	Dimensions (W * H * D)	134 x 89 x 357mm	
	Net Weight	2.9kg.	3.1kg.

All specifications are subject to change without prior notice.

**Installation**

Note: Before installation, please inspect the Unit. Make sure that nothing inside the package is damaged.

**A. Connect to AC Utility Power**

Plug in the AC cord to a wall outlet. Please make sure there are no devices plugged into the Unit. Check to see whether the "SITE WIRING FAULT" indicator is lit. If it is lit, please have the utility wiring inspected by an electrician.



**B. Charge the Battery**

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

**C. Turn on the Unit**

Turn on your Unit by depressing the "On/Off" button for approximately two seconds. You will see the green indicator light come on.

**D. Plug in Power Devices**

Plug your devices into the AC outlets on the Unit. To use the Unit as a master on/off switch, make sure all of the loads are switched on.

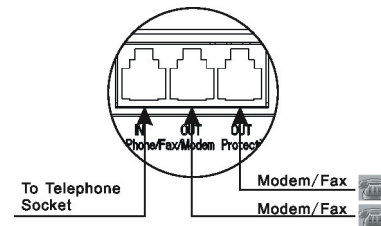
Caution: Never connect a laser printer or scanner to the backup outlets along with other computer equipment. A laser printer or scanner draws significantly more power when in use than when idle. This may overload the Battery Backup.



**E. Connect the Phone/Fax/Modem Lines**

1. Connect a single phone/fax/modem line into the surge-protected outlets on the side of the Unit. The RJ11 modular outlets accept standard single-line telephone connections.
2. Plug one end of the phone cable into your telephone wall jack and plug the other end into the jack marked "IN". You may now plug a phone, fax, or modem into either of the two jacks marked "OUT". (See Fig. 3)

Fig. 3



Note: This connection is optional but highly recommended as phone/fax/modem lines often carry dangerous surges and spikes. The Unit works properly without a phone/fax/modem connection.

Caution: The phone/fax/modem 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 devices to be protected (phone/fax/modem) are plugged into the connector marked "OUT".

**F Connect the USB (Universal Serial Port) Communication Port (See #4 on Fig. 2)**

A USB port is provided to relay the signal to support Windows. To fully utilize the Belkin Automatic Power Management Software, you will need to connect the Unit to your computer. Connect the USB cable to the Unit, then connect the other end to your computer's USB port.

**G. Install Belkin APM Software**

- a) System requirements
  - 128 MB RAM of memory at least (256MB is recommended)
  - 256 colors and 800 \* 600 resolution or above display is recommended
  - 160 MB of disk space or above
  - An available communication port (RS-232 Serial Port or USB port) is needed while connecting to UPS with a special connecting cable.
  - For Mac OS X, Linux or Unix operating system, the user must have the access authority as the super user
  - TCP/IP protocol must be installed to support network management
  - The user needs to have the access authority as the administrator
- b) Platforms supported by Belkin APM Software.

The following operating system (OS) is arranged by the alphabetical order:

- AIX 4.3.3, 5.1, 5.2
- Compaq Tru64 Alpha
- FreeBSD x86
- HP-UX 11.x, 11i.x
- Linux
- Mac PPC OSX
- SCO UnixWare 7.1.1, 7.1.3, SCO Unix 8.0, and SCO OpenServer 5.0.6, 5.0.7
- SGI Irix 6.5.x
- Solaris / Sparc 2.6, 7, 8, 9, and Solaris / Intel 2.6, 7, 8, 9
- Windows XP / 2003 / 2000 / ME / 98 / NT 4.0 (SP6).

c) Belkin Automatic Power Management Software Installation Steps.

For Windows platform

- Run setup.exe in the \Windows\Disk1\InstData\VM\ directory of your CD to start the installation program.
- Read the information provided, then click Next.
- Review the installation options that you have selected. If the options are correct, then click "Install" to begin the installation.
- When the installation program is completed, click Done.

For Mac OS X platform

- Run setup.app in the \MacOSX\Disk1\InstData\ directory of your CD to start the installation program.
- Read the information provided, then click Next.
- Review the installation options that you have selected. If the options are correct, then click "Install" to begin the installation.
- When the installation program is completed, click Done.

For Other Platforms

- This CD provides two installation modes: GUI mode and Console mode. Enter the directory according to the system and run setup.bin or setup\_console.bin to start the installation program. Note: For UnixWare, Irix and Tru64 platform, make sure JRE1.3.1 has been installed in your system, then enter the /GenericUnix directory and run setup.bin or setup\_console.bin to start the setup.
- Read the information provided, then click Next.
- Review the installation options that you have selected. If the options are correct, then click Install to begin the installation.
- When the installation program is completed, click Done.

Reboot the system.

The install program set the Belkin Automatic Power Management Software Running Environment Variables in /etc/profile, reboot the system to make it valid.

H. Uninstall Belkin APM Software

Note: Before uninstall Belkin APM Software, all Belkin APM Software program must be stopped first. Otherwise the uninstalling cannot be run completely.

Windows operating system

1. There are two ways of uninstalling Belkin APM Software:
  - (a) Click directly on the Uninstall Belkin Automatic Power Management Software from the Start menu >programs> Belkin Automatic Power Management Software.
  - (b) Use the Add / Remove Program under Control, and select Change or Remove Programs from the left. Select Belkin Automatic Power Management Software, and click the Change / remove button.
2. The Uninstall Program will pop up a prompt, and click Uninstall to start the uninstalling.

To exit the installation, click Cancel.

Mac OS X system

open the Terminal from Application > Utilities> Terminal, enter the installation directory (/opt/upsilot by default) and execute the command: sudo ./Uninstall

Enter the system account password when it prompts. The installation will be carried out with administrator privilege and can completely uninstall all the files.

If you just execute the ./Uninstall command, the installation may not have the permission to uninstall all the files.

Linux and UnixWare system

Open the Terminal, enter the /opt/upsilot in the address bar and execute command: ./Uninstall.

**Troubleshooting**

PROBLEM	POSSIBLE CAUSE	SOLUTION
Power LED is not lit	"On/Off" button not pushed or pushed less than 2 seconds	Press the "On/Off" button more than 2 seconds
Unit will not power on	Battery voltage is too low	Recharge the Unit for at least 8 hours
	UPS fault	Contact Belkin Technical Support at techsupp@belkin.com
Unit always on battery mode	Power cord loose	Re-plug the power cord
	AC breaker is tripped	Reset the breaker
	Power disturbances have occurred	Normal operations
Backup time is very short	Battery is not fully charged	Recharge the Unit for a minimum of 8 hours
	Unit is overloaded	Remove unnecessary power loads (devices)
	UPS fault	Contact Belkin Technical Support at techsupp@belkin.com

**Safety Information**

**This 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.

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**Safety Information**

**Caution**

- 1 Internal battery voltage is 12V DC.
- 1 The Unit is intended for installation in a controlled environment (temperature controlled, indoor area free of conductive contaminants).
- 1 All batteries used are sealed lead batteries. Batteries must be recycled.

**Recycling**

Your Unit contains a non-spillable sealed lead battery. On the battery, you will find the battery name. Please reference the chart below for recycling information.

Battery Name	Recycling Inside the USA	Outside the USA Recycling
BB Battery	(800) 278-8599	N/A
CSB Battery	(800) 738-7372	1 (817) 244-4415
VISION Battery	(604) 730-2877	N/A
Best Battery	(888) 841-5179	N/A

**Contact Belkin**

**BELKIN**

www.belkin.com

Belkin Tech Support  
 US: 800-223-5546, ext. 2263  
 310-898-1100, ext. 2263  
 Europe: 00 800 223 55 460  
 Australia: 1800 235 546  
 New Zealand: 0800 235 546

Belkin Corporation  
 501 West Walnut Street  
 Compton, CA 90220-5221, USA  
 310-898-1100  
 310-898-1111 fax

Belkin Ltd.  
 Express Business Park, Shipton Way  
 Rushden, NN10 6GL, United Kingdom  
 +44 (0) 1933 35 2000  
 +44 (0) 1933 31 2000 fax

Belkin B.V.  
 Boeing Avenue 333  
 1119 PH Schiphol-Rijk, The Netherlands  
 +31 (0) 20 654 7300  
 +31 (0) 20 654 7349 fax

Belkin Ltd.  
 7 Bowen Crescent, West Gosford  
 NSW 2250, Australia  
 +61 (0) 2 4372 8600  
 +61 (0) 2 4372 8603 fax

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