

BELKIN®

Battery Backup with Surge Protection



User Manual

F6H400ukUSB F6H600ukUSB

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)**
- 1 – **USB Cable**
- 1- **CD user manual**

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 sockets.

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.

Indicator	Condition	Meaning
On-Line	Solid Green	The unit is operating and supplying the utility power to connect loads.
On-Battery Low Battery	* Flashing Yellow	When the unit is operating from battery: 1. The light blinks every 5 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.
UPS Fault	Solid Yellow	The LED lights steadily and the buzzer beeps if a fault is found.

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

1. Battery-Backup Outlets

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

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

2. The "On/Off" button has 2 functions:

1. Turns on the unit. Press button for 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 socket. Press and hold the key for at least two seconds to turn on the unit.

Overview | Side Panel

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

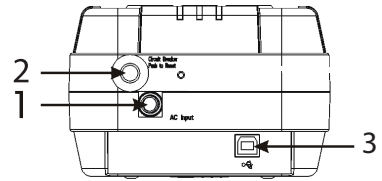
Provides power to your Battery Backup.

2. AC Breaker (Circuit Breaker; see #2 on Fig. 1)

Should a power overload occur, the circuit breaker triggers the unit to turn off AC power. To restore power, press the “circuit breaker” button to reset, then press the “Power” button.

3. USB Communication Port (See #3 on Fig. 1)

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.



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 (Continuous Alarm)

When the unit fails, it emits an audible alarm continuously 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 twelve (12) hours.

Extended Storage

During extended storage in environments where the ambient temperature is -15 en +30 °C, charge the unit’s battery every six (6) months. During extended storage in environments where the ambient temperature is +30 en 45 °C, charge the unit’s battery every three (3) months.

Note:



Overview | Technical Specifications

Model		F6H400ukUSB F6H400exUSB F6H400evUSB	F6H600ukUSB F6H600exUSB F6H600evUSB
Capacity	VA/W	400VA/200W	600VA/300W
Input	Voltage	220/230/240VAC	
	Frequency	50/60Hz	
	Max input current	5A	
	Phase	Single	
Output (inverter Mode)	Voltage Range	220/230/240VAC+10%	
	Frequency	50Hz or 60Hz+1Hz	
	Max output current	5A	
	Waveform	Modified Sinwave	
Transfer Time	Typical	2-6ms	
Battery	Battery Type	12V4.5Ahx1	12V5Ahx1
	Backup Time at a PC load with monitor (Typical 100W)	6-11 Minutes	10-15 Minutes
	Recharging Time	16 hours max (recharge up to 90% capacity)	
Display	LED	Power on, Backup, Fault	
Audible Alarm	Battery Mode	Sounding every 5 seconds	
	Low Battery	Sounding every second	
	Overload	Sounding every 0.5 second	
	Fault	Continuously Sounding	
Protection	Full Protection	Overload, Overcharge, Modem/Phone Line Surge Protection and Short Circuit Protection	
Physical	Dimension (DxWxH)		352mm*134mm*86mm
	Net Weight		2.9KG
	Shucko	France	UK
Environment	Operation Temperature		0-40oC
	Operation Humidity		0-90%

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 socket. 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 twelve 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 sockets 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 sockets 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 USB Communication Port

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.

F. Install Belkin APM Software

a) 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).

b) Belkin Automatic Power Management Software Installation Steps. (For most common operating systems)

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.

Trouble shooting

PROBLEM	POSSIBLE CAUSE	SOLUTION
Power LED is not lit unit will not power on	"On/Off" button not pushed or pushed less than 2 seconds	Press the "On/Off" button more than 2 seconds
	Battery voltage is too low	Recharge the unit for 24 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 24 hours
	unit is overloaded	Remove unnecessary power loads (devices)
	UPS fault	Contact Belkin Technical Support at techsupp@belkin.com



Important safety instructions

Please read the following information carefully and save this manual for future reference. Disregard of these safety notes may endanger life or health, as well as the function of the equipment and the safety of your data.

- Do not connect this product to another battery backup, power board, surge protector, extension cord or double adapter.
- Risk of Electric Shock. Heatsinks are live. Disconnect unit before servicing.
- Risk of Electric Shock. This unit receives power from more than one source.

Disconnection of AC sources and the DC source is required to de-energise this unit before servicing.

- Risk of Electric Shock. Hazardous live parts inside this unit are energised from the battery supply even when the power cord is connected.
- Risk of Electric Shock. Do not remove cover. No user serviceable parts inside.

Refer servicing to qualified service personnel.

- The sum of the leakage current of the UPS and the connected equipment should not exceed 3.5mA.
- Do not dispose of batteries in a fire as they may explode.
- Do not open or damage the battery. Released electrolyte is harmful to the skin and eyes. It may be toxic.
- Do not let liquids and/or other foreign bodies into the UPS.
- A battery can present a risk of electric shock and high short circuit current.

The following precaution should be observed when working on batteries:

- Remove watches, rings or other metal objects from the handles
- Use tools with insulated handles
- Wear rubber gloves and boots
- Do not lay tools or metal parts on top of the batteries
- Disconnect charging source prior to connecting or disconnecting batteries terminal.

- Servicing of batteries should be performed or supervised by personnel knowledgeable about batteries and required precautions.
- When replacing batteries, use the same type and number of batteries or batter packs.
- The mains socket that supplies the UPS shall be installed near the UPS and shall be easily accessible . When the UPS power cord must be connected to an earthed mains socket for safety reasons.
- The maximum ambient temperature rating is 40 C°



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