INTRODUCTION

Thank you for purchasing a Belkin Uninterruptible Power Supply (UPS). Each year, several natural and man made occurrences put the power supplied to your electronics in your home or office in jeopardy. At risk are your hardware, software and data because of these power problems.

IMPORTANT SAFETY INSTRUCTIONS

Please save this manual!
It contains important operating instructions and warranty information pertaining to your UPS.
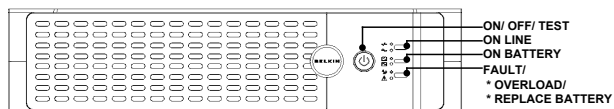
Please save or recycle the packaging materials!
The UPS packaging was designed with great care to provide protection during shipment and delivery. These materials are invaluable if you ever have to return the UPS for service. Damage sustained during transit is not covered under the warranty.

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.

UPS FEATURES AND FUNCTIONS

Your UPS features 3 LED indicators which specific's certain functions on your UPS. Please review the Front Panel diagram and with this chart, as it will assist you in the use of your UPS.

Indicator	Condition	Meaning
ON LINE (Green LED)	_ Solid Green	AC Power is on
	_ Flashing Green	AVR is active
ON BATTERY (Yellow LED)	_ Flashing Yellow LED with Audible Alarm (Beeping)	This condition for the On-Battery LED can indicate 1 of 2 problems: 1. The UPS is on battery backup and an intermittent audible alarm is on. The UPS will begin shutdown procedure. 2. Battery is low. The UPS will start shutdown. The buzzer sounds an audible alarm.
FAULT/ *OVERLOAD/ *Replace Battery (Red Led)	_ Solid Red	The Fault/Overload can indicate 1 of 2 problems. 1. There is a problem with the UPS. The LED will be lit continuously, and the unit will sound an audible alarm for 10 seconds. 2. Battery is weak or bad; the battery needs to be replaced.
	_ Flashing Red	Battery output is drawing more power than the UPS can provide.
SITE WIRING FAULT (ON REAR PANEL)	_ Solid Red	There is either no ground circuit or a reversed polarity in the building wiring.

BATTERY REPLACEMENT PROCEDURE

Replacement requires removing the battery cover plate on the front of the UPS. No tools are needed. To replace the batteries:
1. Press fastener to remove the battery cover plate on the front of the UPS (Fig. 1 & 2).
2. Disconnect the insulated connectors from the battery terminals (Fig. 3 & 4).
3. Remove the battery then insert a new battery pack, and push the connectors onto the battery terminals (black to black & red to red) (Fig. 3 & 4).

   NOTE: There may be a small spark at the battery terminals when reconnecting the connectors. This is normal and will not harm you or the UPS.
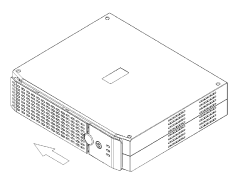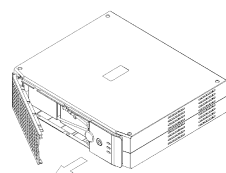4. Close the battery cover (Fig. 1).
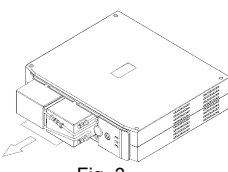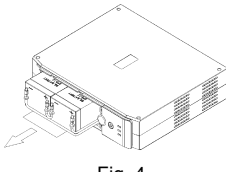

Fig. 1   Fig. 2

Fig. 3
for Model: F6C1500-TW-RK

Fig. 4
for Model: F6C1000-TW-RK
F6C1250-TW-RK

BELKIN®

USERS MANUAL
BELKIN TOWER-RACK SERIES UPS
F6C1000-TW-RK
F6C1250-TW-RK
F6C1500-TW-RK

ALARMS

BATTERY BACK UP (Slow Alarm)
When in the UPS is in battery BACK-UP mode, the On Battery (Yellow LED) illuminates and the UPS sounds an audible alarm. The alarm stops when the UPS returns to normal ON LINE operation.

LOW BATTERY (Rapid Alarm)
When the UPS is in battery BACK-UP mode and the battery energy begins to run low, the UPS will beep rapidly until it shuts down from a depleted battery or returns to ON 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.
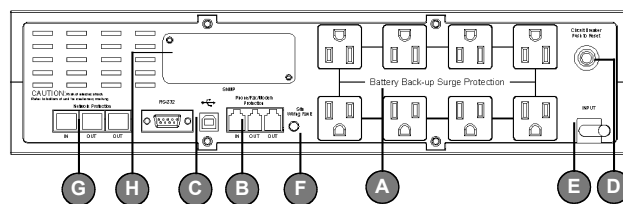
FAULT (10 Seconds Continuously)
When the UPS occur fault, the UPS emits a 10 seconds continuous alarm to warn of a fault condition. Disconnect the equipment from the UPS prior to checking the equipment.

To Silence Audible Alarm
While in battery BACK-UP mode, push on/off/test button less than 1.5 seconds to silence the audible alarm. (This does not work if the UPS is under LOW BATTERY or OVERLOAD condition.

REAR PANEL

A_ BATTERY BACK UP SURGE PROTECTION OUTLETS
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 UPS is switched off. (Do not plug surge protectors or power strips into the battery back up outlets).
Note! During the AVR Mode, the total load that you will be placing on the battery back up outlets should not exceed 80% of the unit's capacity.

B_ PHONE/FAX/ MODEM PROTECTION
The phone/fax/modem lines are surge protected and provide complete safety for line connection.

C_ INTERFACE PORTS (USB & RS232)
The UPS provides both a USB and RS232 port for use with your computer. **NOTE: Choose one port only.**

D_ AC INPUT BREAKER (CIRCUIT BREAKER)
The circuit breaker button will be triggered if an overload condition forces the UPS to disconnect itself from utility power. If the button sticks out, disconnect nonessential equipment and depress breaker.

E_ AC INPUT POWER CORD

F_ SITE WIRING FAULT INDICATOR
The Site Wiring Fault LED will illuminate when one of the following conditions exist:
1. Open or high-resistance ground
2. Hot and neutral polarity reversal
3. Overloaded neutral circuit

G_ NETWORK PROTECTION

This connector is used for protecting the transmission line of Ethernet card from surge, noise and spike.

H_ ACCESSORY SLOT

Optional SNMP Slot

CONTENTS
You should have received the following:
1 – UPS unit
1 – Bulldog Plus Shutdown Software
1 – USB Cable
1 – Serial Cable
1 – Phone Line Cable

INSTALLATION

Note!
Before installation, please inspect the UPS Upon receipt. Make sure that the UPS is not damaged.

Connect to AC Utility Power
Connect the AC inlet to utility power via the power cord. Check whether the Site Wiring Fault indicator is lit or not. If so, please check the utility wiring.

Charging the Battery
For best results, charge the battery for 8 hours prior to initial use. The UPS charges its battery whenever it is connected to the utility power.

Plug in Power Devices
Plug your devices into the AC outlets 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 UPS with other computer equipment. A laser printer or scanner draws significantly more power when in use than when idle. This may overload the UPS.

Laser Printer

Turning on the UPS
Turn on your UPS by pressing and holding the On/Off/Test button for approximately 2 seconds until the "ON LINE" Green comes on.

Turning off the UPS
Turn off the UPS by pressing and holding the On/Off/Test button for more than 2 seconds until the "ON LINE" or "ON BATTERY" LED goes off.
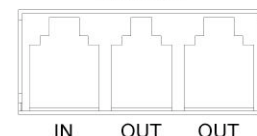
To Conduct a Self Test
Use the self-test to verify both the operation of the UPS and the condition of the battery. In normal utility power, push the On/Off/Test button less than 1.5 seconds and the UPS performs a self-test function. During the self-test, the UPS operates in back-up mode.
Note! During the self-test, the UPS briefly operates on-battery backup power (the on-battery LED comes on). 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. 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.

Connect the phone/ fax/ modem/ lines
Connect a single phone/ fax/ modem line into the surge-protected sockets on the back of the UPS. The RJ-11 modular sockets accepts standard single line telephone connections. The connection will require another length of telephone cable, which is supplied.
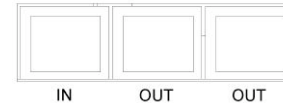

Phone/Fax/Modem Protection

IN   OUT   OUT

Note! This connection is optional but highly suggested as phone/ fax/modem lines often carry dangerous surges and spikes. The UPS 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 device to be protected is plugged into the connector marked " OUT".

Network Protection

IN   OUT   OUT

Connect the Network Protection Lines
Connect the network line from the wall to the connector marked "IN", then connect the device (Ethernet card) to be protected to the connector marked "OUT".

* All equipment must be turned off prior to hardware installation.

SYSTEM REQUIREMENTS
The UPS can be used without the software and can be used with any computer using a monitor or a flat panel screen. Also, you do not have to have the software installed to utilize the battery backup outlets.
To fully utilize the UPS and its software, your computer must be able to operate the following operating systems: 95/ 98/ ME/ NT4/ 2000/ 2003/ XP & Linux & Higher and have a Serial or USB port.

SERIAL OR USB COMMUNICATION PORT (INSTALLATION OPTIONAL)
To fully utilize the Bulldog Plus Shutdown Software; you will need to connect the UPS to your computer.
The communication port will provide the following features:
1. Monitoring charger status
2. Monitoring UPS status
3. Monitoring battery status and condition
4. Monitoring the utility status
5. Use the ON/OFF/TEST UPS power switch function to schedule UPS for power saving

You may connect the UPS to your computer by choosing either the Serial or USB ports. **Note: Choose one port only. Do not connect your computer through both ports.**

Software Installation (Installation Optional)
A) To fully utilize the UPS and its software, your computer must be able to operate the following operating systems: Windows98/ ME/ NT4/ 2000 / 2003/ XP and have a USB port.

B) Your UPS features the Bulldog Plus Shutdown Software. This allows you to protect and save your data should a power outage occur, as well as safely shutdown your computer in your absence. Please be sure to close out of all applications prior to installing the software.

1. To install the software, please place the CD into the CD drive of your computer.

2. Your computer should autorun the CD. If this does not occur, go to the Run feature on your Start icon (lower left corner) on your screen. Please enter the CD drive, it may be D: Upon entering the drive run setup.exe. to execute the software. Should you continue to have a problem, please refer to your computer's owner's manual for the correct drive.

3. The "Welcome to the Belkin Bulldog Plus Product Installation Browser" will appear. Please click Install and select the Windows version.

4. The Bulldog Plus Installation window will appear. Please choose the appropriate software to install.

5. Install Shield Wizard will appear onscreen, click Next.

6. Please read the License Agreement and click Yes.

7 On Setup Type, ALL (Standalone) is the default. Standalone is for UPS management for your computer only. Networking management is for administrators who need to manage several UPSes in a workstation environment. You should not install the networking files unless you are technically qualified to use these features. For more information on networking, please refer to the software user's manual.

8. On Choose Destination Folder, you have the option to choose the location of where you would like the Software located on your computer. We recommend using the default option as shown on screen. To use the default option, click Next.

9. On Select Program Folder, you have the option to choose the program folder for your Software. We recommend using the default option as shown on screen. To use the default option, click Next.

10. On the Select Language screen, please select your language choice.

11. The software will now be installed. Once completed, please click Finish.

Note!
Please refer to the help feature found on the Belkin On-line Screen. To access this screen, please click the Belkin shield found in the lower right corner on your task bar of your screen.

Once the Belkin On-line screen appears, choose help. The Bulldog Online Help screen will appear. You may use the Contents, Index or Search tabs to assist you with your help issues and to get more information on the specific features and functions of the software.

C) User Manual Installation
You will need Adobe Acrobat Reader to review the User's Manuals. If you do not have the reader, please go to www.adobe.com to download a free version of the software.

1. From the "Welcome to the Belkin Bulldog Plus Product Installation Browser" window, locate and choose User Manual's.

2. The "Bulldog Plus User Manuals" window will appear. Please move your pointer to the manual you wish to open and click.

3. An Adobe PDF file will be opened. To save a copy to your hard drive, you will need to go to "File" on your menu bar and choose "Save a copy".

4. On the Save a Copy window, please choose a destination folder for the manual.

D) Uninstall for Windows 98/ Me/ NT4/ 2000 / 2003/ XP
There are two options to uninstall the Belkin Shutdown Software.

Option 1
1. Click the Start icon in the lower left hand corner of your screen and go to the Programs folder. Scroll to the Belkin Bulldog Plus folder and choose setup. Install Wizard will appear.

2. Choose Remove and click Next.

3. The Program Files and Audio Files will be checked. If they are not, please check them. Click Next. The uninstall procedure will begin.

4. Click Finish when complete.

Option 2
(Note: Windows2000/ 2003/ XP users choose the Control panel function from your Start icon and then go to step 2.)

1. Click the Start icon in the lower left hand corner of your screen and go to the Settings icon. Go to and choose the Control Panel folder. The Control Panel window will appear.

2. Locate and click the Add/Remove Programs icon. The Add/Remove Programs window will appear.

3. Locate and choose the Belkin Bulldog Plus software. Click the Change/Remove button on the right. Install Wizard will appear.

4. Choose Remove and click Next.

5. The Program Files & Audio Files will be checked. If they are not, please check them. Click Next. The uninstall procedure will begin.

6. Click Finish when complete.

TECHNICAL SPECIFICATIONS				
MODEL		F6C1000-TW-RK	F6C1250-TW-RK	F6C1500-TW-RK
INPUT	Capacity	1000VA/ 615W	1250VA/ 680W	1500VA/ 830W
	Voltage Range	88-140Vac		
	Frequency	60HZ (±3HZ)		
OUTPUT	Voltage	Simulated sine wave, 120vac±10%		
	Frequency (On battery)	60HZ (±1HZ)		
BATTERY	Back up time 50%~100% load	80 min.	100 min.	120 min.
	Typical Recharge Time	_ 12hours recover 85% capacity		
ENVIRONMENT	Ambient operation	0~85% humidity non-condensing, 0~40_		
CONFORMANCE	Safety	UL / c-UL, FCC class B		
	Surge	IEEE C62.41 Category A standard		
PHYSICAL	Dimension (W X H X D)	3.46 x 14.96 x 13.13 inches (88 x 380 x 333.5 mm)		
	Net weight	9.2kg/ 20.24lbs		10.7kg/ 23.54 lbs

All specifications are subject to change without prior notice.

STORAGE
Storage Conditions
Store the UPS covered and upright in a cool, dry location with its battery fully charged. Before storing, charge the UPS for at least four hours. Disconnect any cables connected to the computer interface port to avoid unnecessary drainage of the battery.

Extended Storage
During extended storage in environments where the ambient temperature is +5 ^{o}F to +86 ^{o}F, charge the UPS battery every six months. During extended storage in environments where the ambient temperature is +86 ^{o}F to +113 ^{o}F, charge the UPS battery every three months.

Note:

Away from sunlight   Away from heat   Away from

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in materials and workmanship under normal use for a period of one (1) year from the date of purchase, as evidenced by a copy of the sales receipt. Return the defective disk or documentation with your receipt directly to Belkin for a replacement.

DISCLAIMER: Belkin or its associates will in no event be liable (i) in any amount for lost profits or special, incidental, punitive or consequential damages, or (ii) for any claim or damage of any nature, or under any theory, whatsoever, in any amount in excess of the purchase price you paid for the product. The warranties and remedies here set forth are exclusive, and in lieu of all others oral or written, express or implied. Some jurisdictions do not allow exclusion or limitation of implied warranties or liability for incidental damages, so the foregoing limitations or exclusion may not apply to you. This warranty gives you specific legal rights, which vary from jurisdiction to jurisdiction.

HOWEVER, YOU WAIVE SUCH RIGHTS, EXCEPT AS EXPRESSLY PROVIDED UNDER THE TERMS AND CONDITIONS OF THIS AGREEMENT, TO THE MAXIMUM EXTENT ALLOWED BY LAW.

The license is governed by the laws prevailing in the State of New York, without regard to its conflicts of laws principles.

ACKNOWLEDGMENT:
By opening the package on which this Agreement is printed, or through which it is visible, you acknowledge that you have read this Agreement, understand it, and agree that this agreement is the complete and exclusive statement of agreement between yourself and Belkin and supersedes any prior agreements, oral or written, and any other communications relating to the subject matter of this Agreement.

SEVERABILITY:
Any term or provision of this Agreement or any application thereof, which may be prohibited or unenforceable by law in a particular jurisdiction, shall be interpreted and enforced to the maximum extent allowed in such jurisdiction (which the parties acknowledge could mean severing the provision from this Agreement or, if allowed, enforcing it in a narrower form), without affecting the remainder of this Agreement, or any other application of such term or provision in such jurisdiction, or application of such term or provision in any jurisdiction.

SAFETY INFORMATION
CAUTION!
● Internal battery voltage is 12V DC.
● The unit is intended for installation in a controlled environment (temperature controlled, indoor area free of conductive contaminants).
● All batteries used are Sealed Lead Batteries. Batteries must be recycled.

Recycling Information
Your UPS 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	Recycling Outside the USA
BB Battery	(800) 278-8599	N/A
CSB Battery	(800) 738-7372	1 (817) 244-4415
VISION Battery	(973) 726-5323	N/A
RITAR Battery	(888) 841-5179	N/A

TROUBLE SHOOTING		
PROBLEM	POSSIBLE CAUSE	SOLUTION
UPS not on, LED not lit	On/ Off /Test button not pushed or pushed less than 2 second	Press the On/Off /Test button for more than 2 seconds
	Battery voltage is too low	Recharge the UPS at least eight hours
	UPS fault	Contact service personnel
UPS always on battery mode	Power cord loose	Re-plug the power cord
	AC breaker is burned out or tripped	Replace or reset the breaker
	Ac utility voltage is too high or too low, or black out	Normal condition
Back up time too short	Battery not fully charged	Recharge the UPS at least eight hours
	UPS is overload	Remove some un-necessary loads
	Charger fault or other reason	Replace battery. Contact belkin.com
The UPS continuously beeps	Overload	Remove the non-critical loads
Red LED lit	Battery failure	Replace battery. Contact belkin.com

CONTACT US	
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Please visit **w w w . b e l k i n . c o m** for battery replacement information.