

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 read this manual!

This manual provides safety, installation, and operating instructions that will help you obtain the highest performance and service life that the UPS has to offer.

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.

Responsible Party:

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Introduction

Have you ever noticed your lights dim or flicker when you turn on your dishwasher or air-conditioning? 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) with Automatic Voltage Regulation (AVR). Typical "Stand-by" UPS units do not have AVR to increase the output voltage or decrease the output voltage to your computer. A surge protector can only protect your computer from over-voltages due to irregular power. Belkin UPS units protect against surges, spikes, swells, line-noise, brownouts, and blackouts!

Only a Belkin UPS with AVR can give your computer clean and consistent power at all times.

Note: There is no guarantee that interference to radio/TV will not occur in a particular installation. If this UPS causes interference to radio or television reception (this can be determined by turning the UPS power off and on), the user is encouraged to try to correct the interference by one or more of the following measures:

- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Increase the separation between the equipment and the receiver.
- Reorient or relocate the receiving antenna.

Safety

CAUTION! To reduce the risk of electric shock, disconnect the UPS from the main power supply before installing a computer interface signal cable. Reconnect the power cord only after signaling interconnections have been made.

CAUTION! The internal energy source (the battery) cannot be de-energized by the user. The output may be energized when the unit is not connected to a main power supply, thus, a shock hazard may be present.

CAUTION! (RISK OF ELECTRIC SHOCK) HAZARDOUS LIVE PARTS INSIDE THIS UNIT ARE ENERGIZED FROM THE BATTERY SUPPLY EVEN WHEN THE INPUT AC POWER IS NOT CONNECTED.

CAUTION! (RISK OF ELECTRIC SHOCK) DO NOT REMOVE COVER. NO USER SERVICEABLE PARTS INSIDE, PLEASE REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

WARNING: TO REDUCE THE RISK OF FIRE, ONLY REPLACE THE FUSE WITH THE SAME TYPE AND RATING.

Presentation

FRONT PANEL

Different LEDs on the front panel will signal information when various conditions occur:

LED	: Light o: Flash	MEANING
3.0 ON-LINE	Green	Utility is normal.
	٥	Utility is abnormal—AVR (Automatic Voltage Regulation) in operation.
3.1 ON-BATTERY	Yellow	UPS supplies power to outlets from battery source.
	٥	Battery is low; the UPS will start shutdown. The buzzer sounds an audible alarm.
3.2 OVERLOAD	Red	There is a problem with the UPS. The LED will be lit continuously and the buzzer will sound an audible alarm for 10 seconds.
	٥	Battery output is drawing more power than the UPS can provide.
3.3 REPLACE BATTERY	Red	Battery is too weak or bad.
	٥	If UPS is in "On-Battery" mode this means the UPS is just testing the condition of the battery.

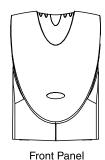
3.4 ON/OFF/TEST/SILENCE BUTTON

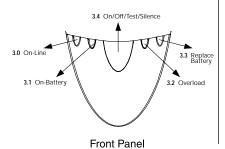
Press the button more than 3 seconds to turn the UPS on or off, press the button less than 3 seconds to activate the UPS self-testing or to silence the back-up alarm.

REAR PANEL

3.5 INTERFACE PORT

Provides both USB or RS232 (depending on model) to relay the signal to support DOS*, Windows*, and other operating systems.





Presentation (continued)

REAR PANEL (continued)

3.6 TELEPHONE/FAX/MODEM OR 10Base-T NETWORK PROTECTION Telephone/Fax/Modem lines are surge protected and provide complete safety for Internet connection. One input and two outputs allow for two devices to be protected (i.e. modem and fax).

3.7 BATTERY REPLACE DOOR (HOT-SWAPPABLE)

3.8 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

3.9 AC INPUT POWER RECEPTACLE

3.10 AC 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 non-essential equipment.

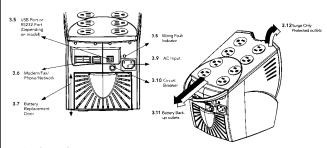
3.11 BATTERY BACK-UP OUTLET

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 or power strips into the battery back-up outlets.)

3.12 SURGE-ONLY PROTECTED OUTLETS

Equipment such as a printer, fax machine, scanner, or 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 switches.

Installation



4.0 Inspection

Inspect the UPS upon receipt. The packaging is recyclable; save it for reuse or dispose of it properly.

4.1 Placement

Install the UPS in a protected area with adequate air flow and free of excessive dust. Do not operate the UPS where the temperature and humidity are beyond the specified limits.

4.2 Connect Computer Interface Belkin Sentry Bulldog Shutdo

Belkin Sentry Bulldog Shutdown Management Software and the USB or RS232 DB9 cable (depending on model) can be used with this UPS. If used, connect the interface cable to the computer interface port on the back panel of the UPS and then connect to the USB or Serial port on your PC.

1.3 Connect to Utility

Connect the AC input power connector to utility power to power up the UPS.

4.4 Charge the Battery The UPS charges its battery whenever it is connected to the utility power.

For best results, charge the battery for 4 hours prior to initial use.

4.5 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.

4.6 Cable Management

It is used to corral all of the power cords into a neat and safe order. It also assists in preventing accidental cord detachment.



CAUTION: Never connect a laser printer or scanner to the backup outlets of the 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.

4.7 Connect the Telephone/Fax/Modem Lines

Connect a single-line telephone/fax/modem line into the surge-protected sockets on the back of the UPS. The RJ45/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 telephone/fax/modem lines often carry dangerous surges and spikes. The UPS works properly without a telephone/fax/modem connection.

CAUTION: The telephone/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 (telephone/fax/modem) is plugged into the connector marked "OUT".

CAUTION: This surge-protection device is for indoor use only. Never install telephone wiring during a lightning storm.

Operation

5.0 Switch On

With the UPS plugged in, press and hold the on/off/test/silence button for more than 3 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 and will respond to commands received through the computer interface port.

5.1 Switch Off

Press and hold the on/off/test/silence button for more than 3 seconds until the "ON-LINE" or "ON-BATTERY" LED goes off.

operates in back-up mode.

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/silence button less than 1 second and the UPS performs a self-test function. During the self-test, the UPS

Operation (continued)

Note: During the self-test, the UPS briefly operates the loads on-battery (the onbattery LED comes on). If the UPS passes the self-test, it returns to online operation.

The on-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 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.

5.3 SI

In " BACK-UP" mode, push on/off/test less than 3 seconds to silence the audible alarm. (The function is void when under condition of "LOW BATTERY" or "OVERLOAD".)

Note: In back-up mode, the UPS can be automatically turned off if none of the connected loads are operating.

Alarm

6.0 BACK-UP (slow alarm)

When in "BACK-UP" mode, the yellow LED illuminates and the UPS sounds an audible alarm. The alarm stops when the UPS returns to "LINE NORMAL" operation.

6.1 LOW BATTERY (rapid alarm)

In "BACK-UP" 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.

6.2 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.

6.3 FAULT (30 seconds continuously)

When the output is shorted, the UPS emits a 30-second continuous alarm to warn of a short condition.

Disconnect the equipment from the UPS prior to checking the equipment.

Software Options

7.0 Belkin Sentry Bulldog Shutdown Management Software

Belkin Sentry Bulldog Shutdown Management Software receives communication through the USB or RS232 interface port (depending on model) to perform monitoring functions, and also provide an orderly shutdown of the computer in the event of a power failure. Moreover, Belkin Sentry Bulldog Shutdown Management Software displays all of the diagnostic symptoms on screen, such as Voltage level, Frequency, Battery level, etc.

The software is available for Windows® 95, Windows® 98, Windows NT® V4 or higher, and Windows® 2000.

7.1 Interface Kits

Each interface kit includes a special interface cable which is required to convert status signals from the UPS into signals that the individual operating system can recognize. The interface cable must be connected to the USB or RS232 port (depending on model) on the UPS. The other side of the interface cable can be connected to the USB or RS232 port (depending on model) of your PC. For other installation instructions and features, please refer to the README file.

CAUTION:

Use only a factory supplied or authorized UPS monitoring cable!

7.2 USB (Universal Serial Bus): HID (Human Interface Device) setup procedure

1. When the USB cable that comes with the UPS is first connected to a USB port on your computer, the Windows® 98 dialog called "ADD NEW HARDWARE WIZARD" should appear automatically.

(To display this dialog manually, you can choose the Start button and then "Settings" to access the Control Panel and then double-click "ADD NEW HARDWARE". The USB cable should be connected already.)

- 2. The "ADD NEW HARDWARE WIZARD" dialog box guides you through the installation process. Click "Next".
- 3. A dialog states "Windows will now search for any new Plug-and-Play devices on your system". Click "Next".
- 4. A subsequent dialog gives you these options:
- Search for the best driver for your device (recommended).Display a list of all drivers in specific location, so you can select
- the driver you want.

 Please accept the recommended choice by clicking "Next".

5. The Wizard will then search your hard drive for a file

- called...\INF\hiddev.inf. This file contains all the information that Windows* 98 needs to install the correct device drivers.

 At this point the wizard might ask for the Windows* 98 CD-ROM.
- Place the CD in the CD-ROM drive and select "OK".

 7. The installation process will continue automatically until a dialog.
- The installation process will continue automatically until a dialog displays indicating that the drivers have been installed. Select the "Finish" button and your drivers are installed.

USB Interface Port

The computer interface port has the following characteristics

- Plug-and-Play Support
 Hot-Attachment
- USB Port Protection
- Self-Powered
 1.5 Mbps Low-Speed
 - USB Device
 Compliant with USB
 Specification Version 1.0



8. Compliant with HID Power Device Class Version 1.0

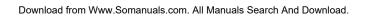
Display UPS Status Data:

Voltage Out-of-Range/Buck/Boost/Frequency Out-of-Range/Overload Over Charged/Over Temperature/Internal Fail/Shutdown Request/Shutdown Imminent Switch On/Off/Switchable/Tested Awaiting Power/Good/Beeper/Terminate Charge Terminate Discharge/Below Remaining Capacity-Limit/Remaining Time Limit-Expired Charging/Discharging/Fully Discharged/Need Replacement

10. Measurement Items:

AC Input Voltage/AC Output Voltage/AC Input Frequency/AC Output Frequency Battery Voltage/Battery Capacity/Temperature Percent Load

Turn On/Off Outlet/Schedule Shutdown/High/Low Transfer Voltage/Battery Test Delay Before Shutdown/Delay Before Startup/Delay Before Reboot



UPS Uninterruptible Power Supply User Manual



USB Interface Port

Firmware
 Rating VA

2. Rating VA

3. Rating Voltage

4. Rating Frequency

5. Rating Battery

6. Input Frequency

7. Input Voltage

Output Source
 Alarm

10. Voltage Sensitivity

11. Outlet Relay ON/OFF

12. Next Shutdown

13. Next Restart 14. AC Source

15. Battery

16. Loading 17. Battery Level

18. Selectable Transfer Voltage
19. Diagram

20. Picture

Version of Firmware

Rated Power Capacity of UPS Rated Power Voltage of UPS

Connected Frequency Rating of UPS Rated Battery Voltage Used by UPS

AC Utility Frequency

AC Utility Voltage Indicating Bypass or On Battery

To Set Situation for Alarm

To Improve Transfer Time and Avoid Effect of I/P Distortion

Set Delay Time to Control Outlet Relay

On/Off
Time to Next Scheduled Shutdown

Time to Next Scrieduled Shutdow
Time to Next Restart
Input Power Source of UPS
Condition of Battery
Load Percentage of UPS
Indicates the Remaining Power
Percentage of Battery

Change Transfer Voltage Input & Output Power Flow of UPS

General Outlook of UPS

RS232 Interface Port



RS232 Pin definition:

 NC - - - - - NC

 TXD - - - - - 2

 RXD - - - - - - - NC

 NC - - - - - - 4

 9 - - - - NC

Signal Ground -----5

*pin2: PC receives line RS232 data from UPS

*pin3: PC transmits line RS232 data to UPS

*pin5: signal ground.

*other: not used.

The RS232 communication port provides the following features:

Monitoring UPS status

5. Monitoring the utility status

Providing the power switch function for the computer to turn on/off the utility on schedule. To save power, UPS data will be provided at 2400 baud rate and is made up of 8-bit, 1-stop-bit, and no parity-bit. All the information is provided in ASCII format.

CABLING: COMI	PUTER		U	PS
RX	(pin2)	←	TX	(pin2)
TX	(pin3)	\rightarrow	RX	(pin3)
GND	(pin5)	→	GND	(pin5)

Battery Replacement

The average life of a battery is 3-5 years before ever needing to be replaced.

EcoPower Battery Replacement Program™

In the event that the UPS needs a battery replacement, Belkin offers its EcoPower Battery Replacement Program. This program offers a battery replacement and full service check on your UPS to ensure it is working properly to protect your connected devices. It also ensures that the battery in the UPS is discarded properly in an effort to keep our environment clean. All participants in the program will receive a two-year extended product warranty. Please call Belkin Components for detailed information regarding the cost of the program and shipping procedures.

Battery Replacement

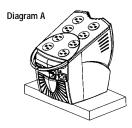
Battery replacement is a safe procedure. You may leave the UPS On and equipment connected during this procedure. Do not replace the battery when the UPS is "On Battery". See page 15 for diagram illustrations.

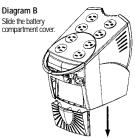
- 1. Set the UPS at the edge of a table (Diagram A)
- 2. Slide the battery compartment cover down (Diagram B).
- Grasp the tab attached to the battery and slide the battery partially out. Then grab the battery firmly and remove; the battery wires will disconnect as the battery is pulled out (Diagram C).
- Carefully insert the new battery halfway into the UPS. Avoid pinching the wires (Diagram D).
- Connect the wires to the new battery according to the following configuration:
 Red wire to red terminal
 Black wire to black terminal
- 6. Carefully insert the battery terminals.
- 7. Slide the battery compartment cover back into place (Diagram E).

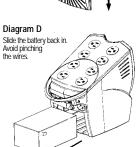
The old battery must be recycled. Deliver the battery to an appropriate recycling facility or return it to Belkin in the packing carton that came with your new battery. Additional recycling information is provided with your new battery.

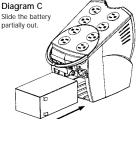
Battery Replacement (continued)

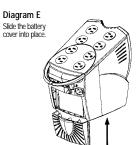
Refer Servicing to qualified service personnel or contact Belkin Components.











Troubleshooting

PROBLEM	POSSIBLE CAUSE	SOLUTION
UPS not on LED not lit	On/off/test/button not pushed or pushed less than 3 seconds	Press the on/off/test button more than 3 seconds
	Battery voltage less than 10V	Recharge the UPS at least 4 hours
	UPS fault	Contact service personnel
UPS always at battery mode	Power cord loose	Replug the power cord
batter y mode	AC breaker is burned out	Replace the breaker
	Line voltage too high, too low, or black out	Normal condition
Back-up time too short	Battery not fully charged	Recharge the UPS at least 4 hours
	UPS is overloaded loads	Remove some unnecessary
	Charger fault or other reason	Replace battery
The UPS continuously beeps	Overload	Remove the non-critical loads
Red LED lit	Battery failure	Replace battery

Storage

11.0 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 4 hours. Disconnect any cables connected to the computer interface port to avoid unnecessary drainage of the battery.

11.1 Extended Storage

During extended storage in environments where the ambient temperature is -15°C to +30°C, charge the UPS battery every 6 months.

During extended storage in environments where the ambient temperature is +30°C to +45°C, charge the UPS battery every 3 months.

Specifications (USB Series)

CE Declaration of Conformity

We, Belkin Components, declare under our sole responsibility that the F6C325u-220V, F6C425u-220V, F6C525u-220V, F6C625u-220V, to which this declaration relates, is in conformity with Generic Emissions Standard EN50081-1 and with Generic Immunity Standard EN50082-1 1992 to which this declaration relates, is in conformity with Generic Emissions Standard EN50081-1 and with Generic Immunity Standard EN50082-1 1992.

Belkin Components Two-Year Product Warranty

Belkin Components warrants this product against defects in materials and workmanship for two years. If a defect is discovered, Belkin will, at its option, repair or replace the product at no charge, provided it is returned during the warranty period, with transportation charges prepaid, to the authorized Belkin dealer from whom you purchased the product. Proof of purchase may be required.

This warranty does not apply if the product has been damaged by accident, abuse, misuse, or misapplication; if the product has been modified without the written permission of Belkin; or if any Belkin serial number has been removed or defaced.

THE WARRANTY AND REMEDIES SET FORTH ABOVE ARE EXCLUSIVE IN LIEU OF ALL OTHERS, WHETHER

ORAL OR WRITTEN, EXPRESSED OR IMPLIED. BELKIN SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

No Belkin dealer, agent, or employee is authorized to make any modification, extension, or addition to this warranty.

BELKIN IS NOT RESPONSIBLE FOR SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES RESULTING FROM ANY BREACH OF WARRANTY, OR UNDER ANY OTHER LEGAL THEORY, INCLUDING BUT NOT LIMITED TO LOST PROFITS, DOWNTIME, GOODWILL, DAMAGE TO OR REPROGRAMMING, OR REPRODUCING ANY PROGRAM OR DATA STORED IN OR USED WITH BELKIN PRODUCTS.

Specifications

RS232 Series 425VA(255W) 50Hz or 60Hz ±3Hz (auto sensing) Simulated sine wave, 230Vac±8% OUTPUT 50Hz or 60Hz ±1Hz voltage Regulation AVR Smart trim reduces 12.8% of voltage if input is 247 to 280 Vac 4 milliseconds, including detection time Spike Protection 150 Joules UPS automatic shutdown if overload exceeds 130% in AC mode and 100% in back-up mode. UPS alarms continuously in > 107% or <130% in AC mode. AND FILTERING Overload Protection Unit Input Modem/Network Single Line (2-Wire, RJ11) Network (UTP, RJ45) compatible jacks, one input/two output except F6C325 (Series) Short Circuit UPS output cut off immediately or input breaker protection BATTERY Sealed, maintenance-free lead acid 4 hours (to 90% of full capacity) Recharge Time Protection Automatic self-test and discharge protection, replace Depending on computer load Back-up Time 5-17 min 5-24 min. 5.5kg/12.3lbs. 6kg/13.23lbs 5-32 min 6.5kg/14.33lbs ull/half load Net Weight Dimension PHYSICAL 11.4"x9.6"x12.8" (mm) WDH Input inlet 10A/250V*1pcs, EN60320 10A/250V*4pcs; EN60320/F Output outlet (Bypass) Slow beeping sound (about 15 sec. interval) Rapid beeping sound (about 1 sec. interval) ALARM Battery Back-Up Battery Low Continuous beeping sound (about 1 sec. interval) Overload 10 sec. beeping sound continuously Slow beeping sound (about 15 sec. interval) Battery test RS232 Interface INTERFACE RS232 Port (except F6C325-Series) CE, TUV, BSI, NF Safety ONFORMANCE Meet IEEE C62.41. Category A standard Ambient operation 0~95%, humidity non-condensing, 0~40°C ENVIRONMENT Audible nois <40dBA (1 meter from surface) Storage condition -15°C – 40°C (with battery) -15°C – 70°C (without battery)

USB Series

MODEL		350VA	500VA	650VA	
INPUT	Capacity	350VA(277W)	500VA(300W)	650VA(390W)	
	Voltage	187 Vac - 280 Vac			
	Frequency	50Hz or 60Hz ±3Hz (auto sensing)			
ОИТРИТ	Voltage (on battery)	Simulated sine wave, 230 Vac±8%			
	Frequency (on battery)	50Hz or 60Hz ±1Hz			
	Voltage Regulation AVR	Smart boost increases 14.8% of voltage if input is 213 to 187 Vac. Smart trim reduces 12.8% of voltage if input is 247 to 288 Vac			
	Transfer Time	≤ 4 milliseconds, including detection time			
PROTECTION	Spike Protection	150 Joules			
AND FILTERING	Overload Protection	UPS automatic shutdown if overload exceeds 130% in AC mode and 100% in back-up mode. UPS alarms continuously in > 107% or <130% in AC mode.			
	Unit Input	Breaker for overload and short circuit protection			
	Modem/Network	Single Line (2-Wire, RJ11) Network (UTP, RJ45) compatible jacks, one input/two output			
	Short Circuit	UPS output cut off immediately or input breaker protection			
BATTERY	Туре	Sealed, maintenance-free lead acid			
5,11,1211	Typical Recharge Time	4 hours (to 90% of full capacity)			
	Protection	Automatic self-test and discharge protection, replace battery indicator			
	Back-up Time	Depending on computer I	Depending on computer load		
	Full/half load	5-20 min 5-30 n	nin. 5-45 min		
PHYSICAL	Net Weight	5.5kg/12.3lbs. 6kg/13	3.23lbs 6.5kg/14.33l	bs.	
PHYSICAL	Dimension (mm) WDH	11.4"x9.6"x12.8"			
	Input inlet	10A/250V*1pc, EN60320			
	Output outlet (UPS)	10A/250V*4pcs; ENG603	10A/250V*4pcs; ENG60320/F		
	Output outlet (Bypass)	10A/250V*4pcs; ENG60320/F			
AI ARM	Battery Back-Up		Slow beeping sound (about 15 sec. interval)		
	Battery Low	Rapid beeping sound (ab	Rapid beeping sound (about 1 sec. interval)		
	Overload	Continuous beeping sound (about 1 sec. interval)			
	Fault	10 sec. beeping sound continuously			
	Battery test	Slow beeping sound (about 15 sec. interval)			
INTERFACE	USB Interface	USB Port			
CONFORMANCE	Safety	CE, TUV, BSI, NF			
	Surge	Meet IEEE C62.41. Category A standard			
ENVIRONMENT	Ambient operation	0~95%, humidity non-cor	0~95%, humidity non-condensing, 0~40°C		
***************************************	Audible noise	<40dBA (1 meter from surface)			
	Storage condition	-15°C - 40°C (with battery) -15°C - 70°C (without battery)			

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