



## BKU-1200AX / 1500 AX



## SAFETY INSTRUCTION



### CAUTION!

**SAVE THESE INSTRUCTION-This manual contains important instructions that should be followed during installation and maintenance of the UPS and batteries.**

- **Caution** -risk of electric shock. The battery circuit is not isolated from the input voltage. Hazardous voltages may occur between the battery terminals and the ground. Before touching, please verify that no voltage is present!
- Remove the connection from ground if any part of the battery is determined to be grounded.
- When changing batteries, install the same number and same type of batteries..
- Do not attempt to dispose of batteries by burning them. This could cause battery explosion.
- Do not open or destroy batteries. Escaping electrolyte can cause injury to the skin and eyes. It may be toxic.
- Please replace the fuse or circuit breaker only with the same type and amperage in order to avoid fire hazards.
- Do not dismantle the UPS system, except the specialized technical personnel.
- This unit intended for installation in a controlled environment (temperature controlled, indoor area free of conductive contaminants). Avoid installing the UPS in locations where there is standing or running water, or excessive humidity.
- Do not plug the UPS input into its own output.
- Do not attach a power strip or surge suppressor to the UPS.
- Do not attach non-computer-related items, such as medical equipment, life-support equipment, microwave ovens, or vacuum cleaners to UPS.
- Do not dispose of batteries in a fire as they may explode.
- Batteries may cause electric shock and have a high short-circuit current. Please take the precautionary measures specified below and any other measures necessary when working with batteries:
  - 1) Remove wristwatches, rings and other metal objects
  - 2) Use only tools with insulated grips and handles.
  - 3) Wear rubber gloves and boots.
  - 4) Do not lay tools or metal parts on top of batteries.
  - 5) Disconnect charging source and load prior to installing or maintaining the battery.
  - 6) Remove battery grounds during installation and maintenance to reduce likelihood of shock
- Internal battery voltage is 12VDC.Sealed, lead-acid, 6-cell battery.
- Servicing of batteries should be performed or supervised by personnel knowledgeable of batteries and the required precautions. Keep unauthorized personnel away from batteries.
- Do not open or mutilate the battery or batteries. Release electrolyte is harmful to the skin and eyes. It may be toxic.
- Attention, hazardous through electric shock. Also with dis- connection of this unit from the mains, hazardous voltage still may be accessible through supply from battery. The battery supply should be therefore disconnected in the plus and minus pole at the connectors of the battery when maintenance or service work inside the UPS is necessary.
- To reduce the risk of overheating the UPS, do not cover the UPS' cooling vents and avoid exposing the unit to direct sunlight or installing the unit near heat emitting appliances such as space heater or furnaces.

- Unplug the UPS prior to cleaning and do not use liquid or spray detergent.
- **NOTE:** 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. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
  - Reorient or relocate the receiving antenna
  - Increase the separation between the equipment and receiver.
  - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
  - Consult the dealer or an experienced radio/TV technician for help.
- **WARNING:** Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

## 1. Introduction

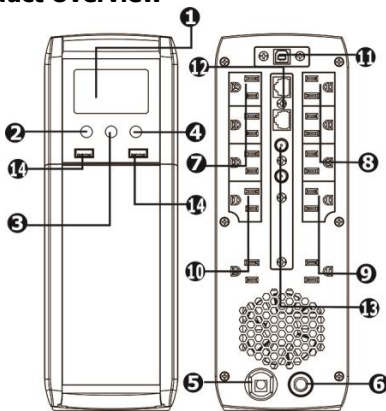
This product is an intelligent line interactive UPS (Uninterruptible Power Supply) which is designed to protect your personal computer or sensitive electronic equipment from all forms of power interference, including complete power failure.

## 2. Package Contents

You should have received the following items inside of package:

- ❶ UPS unit
- ❷ User manual
- ❸ USB cable (option)

## 3. Product Overview



1. LCD display (Please check LCD display for the details)
2. Power switch
3. Mute button
4. Up/down button
5. AC input
6. Circuit breaker
7. Surge-protected outlets
8. Battery backup outlets
9. Master outlets
10. Slave outlets: controlled by master outlets
11. USB communication port
12. Modem/phone/network surge protection
13. Coax surge protection
14. USB charger port

## 4. Installation and Operation

**NOTE:** Before installation, please inspect the unit. Be sure that nothing inside the package is damaged.

### 1) Placement & Storage Conditions

Install the UPS in a protected area that is free of excessive dust and has adequate air flow. Please place the UPS at least 20 cm away from other electronic equipment to avoid interference. Do NOT operate the UPS where the temperature exceeds 0-40° C and the humidity is over 0-90 % RH.



### 2) Connect to Utility and Charge

Plug in the AC input cord to the wall outlet. For the best results, we suggest charging the battery for at least 6 hours before initial use. The unit charges its battery when connected to AC power supply.



**6 hours**

### 3) Connect the Loads

#### **Battery Backup Outlets(3)**

Connect computer and monitor to the "Battery Backup" outlets. These outlets provide battery backup, EMI filtering, line conditioning, and surge protection. Battery power is automatically provided in case of power failure.

#### **Surge-Protected Outlets(3)**

Connect a printer, fax machine, or scanner to the "Surge-protected" outlets. These outlets do not provide power during power failure.

**CAUTION: NEVER** connect a laser printer or scanner to the battery backup sockets of UPS. The equipment may draw significantly power to overload the UPS.

#### **Master Outlets(2) & Slave Outlets (2)**

Power for Slave outlets is available only when loads are connected to Master outlets. If detecting no load available in Master outlets, the power on Slave outlets will be cut off.

### 4) Connect Modem /Phone Line/Network

Connect a single modem or phone line into surge-protected "IN" outlet on the back panel of the UPS unit. Connect from "OUT" outlet to the computer with another phone line cable.

### 5) Connect USB Cable

To monitor the UPS status, such as unattended UPS shutdown and start-up, by using bundled software, please connect the UPS and PC with USB cable included.

### 6) Turn On/Off the Unit

Turn on the UPS unit by pressing the power switch. Turn off the UPS unit by pressing the power switch again.

### 7) Software Download & Installation

**Please follow steps below to download and install monitoring software:**

1. Go to the website <http://www.power-software-download.com>
2. Click ViewPower software icon and then choose your required OS to download the software.
3. Follow the on-screen instructions to install the software.
4. When your computer restarts, the monitoring software will appear as an orange plug icon located in the system tray, near the clock.

### 5. Battery Replacement

This UPS is designed with easy battery replacement. Please follow below steps to replace the inside batteries.

<p><b>Step 1:</b> Remove the battery cover by pushing down the front panel.</p>	<p><b>Step 2:</b> Disconnect battery connector.</p>	<p><b>Step 3:</b> Pull out the inside batteries and replace with new one.</p>

### 6. LCD Display Operation Display

UPS Mode	LCD	Description
Standby Mode		
Site wiring fault in standby mode		

<p>AC Mode</p>		<p>Press  button to switch displayed information.</p> <ol style="list-style-type: none"> <li>1. Output voltage</li> <li>2. Output frequency</li> <li>3. Input voltage</li> <li>4. Input frequency</li> <li>5. Output power in W</li> <li>6. Output power in VA</li> <li>7. Estimated backup time</li> </ol> <p>When Boost is functioning,  icon will flash every second.</p>
<p>Overload in AC mode</p>		<p>When overload occurs, alarm will beep every 0.5 second.</p> <p> icon will flash every second.</p>
<p>Site wiring fault in AC mode</p>		
<p>ECO mode</p>		
<p>Battery Mode</p>		<p>Alarm will beep every 10 seconds and LCD information will be displayed in the following order when pressing  button.</p> <ol style="list-style-type: none"> <li>1. Estimated backup time</li> <li>2. Output voltage</li> <li>3. Output frequency</li> <li>4. Input voltage</li> <li>5. Input frequency</li> </ol>



		<p>6. Output power in W 7. Output power in VA</p> <p>If alarm is mute,  icon will be on.</p>
	<p>When battery level is low,  icon will flash every second.</p>	<p>Alarm will beep every second. This alarm can not be mute.</p>
<p>Overload in battery mode</p>		<p>When overload occurs, alarm will beep every 0.5 second.  icon will flash every second.</p>

**NOTE:** The backlight will be always on when any fault or warning occurs.

**Fault Code Table:**

Fault condition	LCD	Solutions
Output short circuited		Disconnect short-circuited loads and restart the UPS again.
Overload fault		Remove excessive loads and restart the UPS again.
Output fault in battery mode.		Call for service immediately.
Overcharge		<ol style="list-style-type: none"> <li>1. Turn off the unit and wait for cooling.</li> <li>2. Or remove excessive loads and wait for cooling.</li> </ol>
Low battery in battery mode.		Shut down the UPS and re-charge the battery when the utility is restored.

If fault alarm occurs, please call for service immediately.

## 6. Trouble Shooting

Use the table below to solve minor problems.

<b>Problem</b>	<b>Possible Cause</b>	<b>Solutions</b>
Nothing is displayed on the LCD screen.	The UPS is not on.	Press the power switch again to turn on the UPS.
	Battery voltage is too low.	Charge the battery at least 6 hours.
	Battery fault.	Replace the battery.
The UPS always on battery mode.	Power cord loose.	Re-plug the power cord.
The UPS continuously beeps.	Please check the fault code for the details.	Please check the fault code for the details.
When power fails, back-up time is reduced.	Battery voltage is too low.	Charge the battery at least 6 hours.
	Overload.	Remove some unnecessary loads. Before reconnecting equipment, please verify that the load matches the UPS capability specified in the specs.
	Battery defect.	Replace the battery.

## 7. Specifications

Model	1200 AX	1500 AX
<b>CAPACITY</b>	1200VA/720W	1500VA/900W
<b>INPUT</b>		
Voltage	110/120 VAC	
Voltage Range	90~140 VAC	
Frequency Range	50/60Hz±1Hz	
<b>OUTPUT</b>		
Voltage Regulation	+/-5% (Battery mode)	
Transfer Time	Typical 6 ms, 10 ms max.	
Waveform	Simulated Sine Wave	
Protection	Short circuit and overload protection	
Lightning overload protection	540 Joules	
<b>BATTERY</b>		
Type & Number	12 V/9 AH x 2	12 V/9 AH x 2
Charging Time	6-8 hours recover to 90% capacity	
<b>PHYSICAL</b>		
Dimension (DxWxH)	16" x 4" x 11"	
Net Weight (kgs)	11.6	26
<b>ENVIRONMENT</b>		
Humidity	0-90 % RH @ 0-40°C (non-condensing)	
Noise Level	Less than 45 dB	
<b>MANAGEMENT</b>		
Via USB connection	Supports Windows 2000/2003/XP/Vista/2008/7,/8 Linux, Unix, and MAC	
Conformance	cTUVus (standard:UL 1778), FCC Part 15 Class B, ENERGY STAR (USA)	





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