

USER MANUAL

UPS Line Interactive Sine Wave BX1000

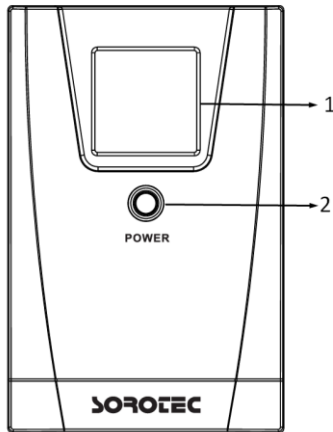


USER MANUAL UPS

Important Notes – Please Read Before Using:

1. Offline UPS is suitable for use with office desktop computers.
 - If you need to use it with other devices, please contact **SOFOTEC** Technical Support at  **0797-247-888** for advice on the appropriate UPS model.
2. The UPS works best at temperatures between 18°C ~ 25°C.
 - Indoor operating temperature should not exceed 30°C.
3. The UPS does not support grid-tie operation.
 - Do not connect the UPS output to the main electrical grid, as this may cause a short circuit, fire, or explosion, which is extremely dangerous.
4. If you notice any unusual behavior or strange sounds while using the UPS (such as a continuous beeping sound and the UPS shuts down suddenly or within 30 seconds):
 - Please reduce the connected load and try again.
 - If the issue persists, contact **SOFOTEC** Customer Service at  **0903-808-500** for immediate assistance.
5. Do not open the UPS casing while it is still under warranty. **SOFOTEC** will deny warranty service if the warranty seal is broken or the serial label is missing.
6. If the UPS is no longer under warranty, please contact **SOFOTEC** Warranty Support at  **0903-808-500** for guidance on post-warranty services.
7. When replacing the battery, ensure your personal safety by following these steps and having proper electrical/electronic knowledge:
 - Turn off the UPS and disconnect it completely from the power source.
 - Remove any metal jewelry such as rings or watches.
 - Wear insulated gloves and electrically insulated shoes during the procedure.

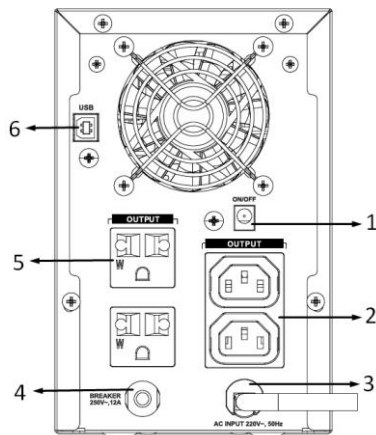
◆ Front Panel:



Legend:

1. LCD Indications
2. Power On/Off Button

◆ Rear Panel:



Legend:

1. ON/OFF Switch
2. 3-Pin AC Output Socket
3. AC Input Power Inlet
4. AC Fuse
5. IEC C13 Output Socket
6. Optional RS232/USB Communication Port

🔧 8. Installation & Usage:

- Installation Location:
 - Place the UPS at least 15cm away from the wall or surrounding objects for proper ventilation.
 - Ensure the operating environment is well-ventilated, free from corrosive chemicals that can damage internal components.
- Usage:
 - Connect the UPS to utility power and charge it continuously for 6 hours before first use.
 - Connect your CPU and monitor (office computer configuration) to the UPS OUTPUT ports.
- Turning UPS On/Off:
 - Without utility power: Press and hold the Power button for 3 seconds to turn on the UPS. Hold 3 seconds again to turn it off.

- With utility power: The UPS will start automatically once plugged into the wall socket.
- LCD Display During UPS Operation:

Chú thích:



1. AC Input Voltage
2. AC Output Voltage
3. Battery Capacity
4. Load Percentage
5. Battery Mode
6. AC Mode
7. Auto Mode
8. Alarm Indicator
9. Charging Current Mode

⚠ 9. Power Outage Alerts:

- The UPS will beep once every 20 seconds during a power outage.
- When the battery is nearly depleted, it will beep continuously for 30 seconds before shutting down.

🛡 10. Protection Features:

- Deep Discharge Protection:
The UPS will automatically shut down when the battery voltage reaches the pre-set limit to avoid deep discharge damage.
- Overcharge Protection:
The UPS monitors the battery voltage while charging and will stop charging when the battery is full to avoid overvoltage.
- Overload Protection:
If the load exceeds the UPS capacity, it will automatically shut down to prevent damage.

💻 11. PC Communication Software Guide:

- If you require communication software for PC monitoring, please contact Sorotec customer service to get the optional communication card and software setup guidance.

🔧 12. UPS Maintenance and Inspection:

- Check if the installation area is clean, dry, and free of dust.
- Ensure power cables are properly connected and not loose.
- Inspect the ventilation holes for dust accumulation and check if the cooling fan is still operational.
- Perform a battery discharge test at least once a month (3–5 minutes) to verify battery backup performance.

13. UPS Battery:

- Designed with a lifespan of 3–5 years.
- Temperature is a key factor affecting battery life.
- If the UPS is stored and unused, recharge the battery every 3 months.

14. Troubleshooting Guide:

Issue	Possible Cause	Solution
UPS not receiving power from the wall socket while the power cord is connected	- Blown AC fuse - Loose power cable - UPS mainboard not detecting utility power	- Check AC fuse position - Check wall socket and power source - Contact DOROTEC Customer Service:  0903.808.500
UPS does not provide backup power during outage	- Battery not fully charged (e.g. power outage occurred before full recharge)	- Recharge battery for at least 8 hours, then test again

15. Product Features

Model Name	BX1000
Capacity	1000VA/800W
General	
UPS Topology	Line Interactive
Physical	
Form Factor	Tower
Input	
Generator Compatibility	Yes
Nominal Input Voltage	220VAC
Input Voltage Range	145VAC $\pm$ 5VAC – 290VAC $\pm$ 7VAC
Input Frequency	40~65Hz
Input Frequency Detection	Auto sensing
Output	
On Battery Waveform	Pure sine wave
On Battery Voltage(s)	220VAC $\pm$ 5%
On Battery Frequency	50Hz $\pm$ 0.5Hz
Automatic Voltage Regulation (AVR)	Yes
Power Factor	0.8
Overload Protection	Fuse
Outlet(s) - Total	4

Outlet Type	IEC Universal *2 & C13 *2
Outlet (s) - Battery & Surge Protected	4
Typical Transfer Time (ms)	2 ~ 4ms
Battery	
Battery	12V7.2Ah
Quantity	2pcs
Charge Current	1/2A Max
Charger time	4 hours to 90% capacity
Battery Type	Sealed lead-acid
Backup Time	
Battery mode	UPS auto shutdown when battery low
Desktop Office + LCD 24 inch *1	39 min
Desktop Office + LCD 24 inch *2	17 min
Runtime at 25% Load	30 min
Runtime at 50% Load	11 min 30 seconds
Overload	120% load 5s
Surge Protection & Filtering	
EMI/RFI Filtration	Yes
Management & Communications	
LCD Indications	Display AC mode, Bypass mode, Inverter mode, Input Voltage, Output Voltage, Frequency, Load, Capacity battery,.....
Connect computer	USB Port (Configurable)
Software	Manager Power allows monitoring, automatic off system with all Windows (Configurable)
Physical Size - UPS Module	
UPS Dimensions (D*W*H)	370*120*190mm ± 2%
UPS Weight	10.24kg ± 2%
Environmental	
Operating Temperature	0 - 40 (non-condensing)
Operating Relative Humidity (Non-condensing) (%)	10 - 90% relative humidity
Warranty	
Product Warranty Period	2 year
*Note: Specifications may vary depending on production stage	