

USER MANUAL

**UPS Line Interactive BL Series
(2000VA - 3000VA)**

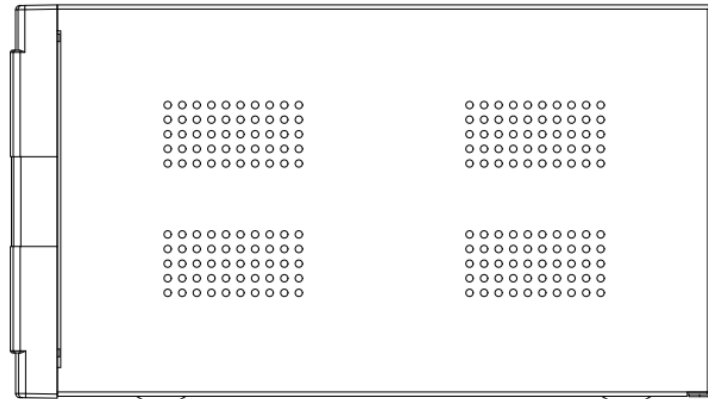
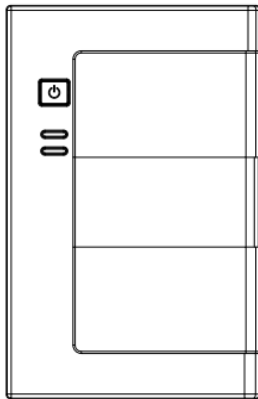


USER MANUAL UPS

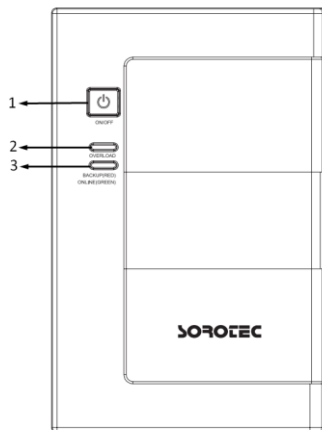
Important Notes – Please Read Before Using:

1. Offline UPS is suitable for use with office desktop computers.
 - If you need to use it with other devices, please contact **SOROTEC** 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 **SOROTEC** Customer Service at  **0903-808-500** for immediate assistance.
5. Do not open the UPS casing while it is still under warranty. **SOROTEC** 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 **SOROTEC** 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.

Overview:



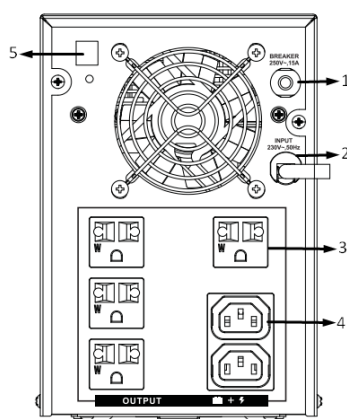
◆ Front Panel:



Legend:

1. Power On/Off Button
2. Overload Indicator (Yellow LED):
Indicates overload condition
3. Backup (Red) / Online (Green) Indicator:
 - Red: Running on battery backup
 - Green: Running on utility pow

◆ Rear Panel:



Legend:

1. AC Fuse
2. AC Input Power Socket Output Power Socket (C13 type)
3. Output Power Socket (three-prong type)
4. Output Power Socket (C13 type)
5. RS232/USB Communication Port for PC (optional)

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.
- UPS Operating Modes and LED Indicators:
 - Normal Mode (Green LED): Running on utility power
 - Backup Mode (Red LED): Running on battery during power outage
 - Overload Mode (Yellow LED): Load exceeds 110% of UPS capacity. If overload continues, UPS will shut down automatically.

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 SOROTEC 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	BL2000	BL2000E	BL2000U	BL3000
Capacity	2000VA/1200W			3000VA/1800W
General				
UPS Topology	Offline			
Physical				
Form Factor	Tower			
Input				
Generator Compatibility	Yes			
Nominal Input Voltage	220VAC $\pm$ 10%			
Input Voltage Range (Vac)	175VAC – 275VAC			
Input Frequency	50/60Hz			
Input Frequency Detection	Auto sensing			
Output				
On Battery Waveform	Simulated sine wave			
On Battery Voltage(s)	220VAC $\pm$ 10%			
On Battery Frequency	50/60Hz $\pm$ 0.5Hz			
Automatic Voltage Regulation (AVR)	Yes			
Power Factor	0.6			
Overload Protection	Fuse			
Outlet(s) - Total	6			
Outlet Type	IEC Universal *4 & C13 *2			
Outlet (s) - Battery & Surge Protected	6			
Typical Transfer Time	4 – 6ms			
Battery				
Battery	12V9Ah	12V7.2Ah	12V9Ah	
Quanlity (Pcs)	2	4	4	
Charge Current (A)	0.9 (Max)			
Charger time	6 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	1 hour 36 min	2 hour	2 hour 54 min	2 hour 54 min
Desktop Office + LCD 24 inch *2	30 min	60 min	1 hour 21 min	1 hour 21 min
Desktop Office + LCD 24 inch *3	23 min	38 min	50 min	50 min

Desktop Office + LCD 24 inch *4	11 min	25 min	33 min	33 min
Desktop Office + LCD 24 inch *5	-	-	21 min	21 min
Runtime at 25% Load	22 min	28 min	31 min	31 min
Runtime at 50% Load	7 min 23 second	10 min	8 min	8 min
Overload	110% load 10s			
Surge Protection & Fliltering				
EMI/RFI Filtration	Yes			
Management & Communications				
LED Indications	Power On, Line Mode, Battery Mode, Low Battery			
Audible Alarms	Battery Mode, Low Battery, Overload, UPS Fault			
Connect computer	USB Port			
Softwave	Manager Power allows monitoring, automatic on / off UPS and system with all Windows			
Physical Size - UPS Module				
UPS Dimensions (D*W*H)	390*140*210mm ± 2%			
UPS Weight	14.6kg ± 2%	18.8kg ± 2%	19.7kg ± 2%	21kg ± 2%
Environmental				
Operating Temperature	0 – 40°C (non-condensing)			
Operating Relative Humidity (Non- condensing) (%)	20 - 90% relative humidity			
Fan cooling	Smart Fan temperature sensor			
Warranty				
Product Warranty Period	2 year			
*Note: Specifications may vary depending on production stage				