Green Cell UPSLPPC800

Green Cell UPS 1200VA 800W PowerCore Instruction Manual

Model: UPSLPPC800

1. Introduction

This manual provides essential information for the safe and efficient operation of your Green Cell UPS 1200VA 800W PowerCore. Please read this manual thoroughly before installation and use, and retain it for future reference. The Green Cell PowerCore UPS is designed to provide reliable emergency power, protecting your electronic devices from power outages, voltage fluctuations, and surges.

2. Safety Information

Observe the following safety precautions to prevent injury and damage to the UPS or connected equipment:

- Do not open the UPS casing. There are no user-serviceable parts inside. Refer all servicing to qualified service personnel.
- The UPS operates with high voltages. Exercise extreme caution.
- Ensure proper ventilation around the UPS. Do not block ventilation openings.
- Do not expose the UPS to direct sunlight, heat sources, or excessive moisture.
- Connect the UPS to a grounded power outlet only.
- The UPS requires an external 12V DC battery for operation. Ensure the battery is connected with correct polarity (+ to + and - to -). Incorrect connection can cause damage.
- Do not connect non-computer-related items like medical equipment, life support systems, or sensitive industrial equipment to the UPS unless specifically approved by the manufacturer.
- In case of emergency, disconnect the UPS from the AC power source and disconnect the external battery.

Figure 2.1: Rear panel of the UPS with safety warnings and connection points. Note the warning regarding opening the unit.

3. Package Contents

The Green Cell UPS 1200VA 800W PowerCore package typically includes:

- Green Cell UPS 1200VA 800W PowerCore unit
- User Manual (this document)
- *Note: An external 12V DC battery is required for operation and is sold separately.*

4. Product Overview

The Green Cell PowerCore UPS provides uninterruptible power with an 800W / 1200VA capacity, featuring a pure sine wave output and Automatic Voltage Regulation (AVR). It is designed to protect sensitive electronics.

4.1 Front Panel

Figure 4.1: Front view of the Green Cell UPS, highlighting the LCD display.

The front panel features an intuitive LCD display that provides real-time information on the UPS status, including input/output voltage, load level, and battery capacity. It also includes a power button and an audible alarm mute button.

4.2 Rear Panel

Figure 4.2: Rear panel of the Green Cell UPS, showing connection points.

The rear panel includes:

- **Cooling Fan:** For thermal management.
- **DC Terminals (+/-):** For connecting the external 12V DC battery.
- **Charging Current Switch (L/M/H):** Allows adjustment of the battery charging current.
- **AC Input:** Power cord connection for mains supply.
- **Output 230V Schuko Sockets:** Two outlets for connecting protected devices.
- **DC Fuse:** For battery reverse protection.
- **Circuit Breaker:** Overload protection for the AC output.

5. Setup

Follow these steps for initial setup:

1. **Unpacking and Inspection:** Carefully unpack the UPS and inspect it for any shipping damage. If damage is found, do not operate the unit and contact your dealer.
2. **Placement:** Place the UPS in a clean, dry, and well-ventilated area, away from direct sunlight, heat, and moisture. Ensure adequate space around the unit for airflow.
3. **External Battery Connection:**
    - Ensure the UPS is turned OFF and disconnected from the AC power source.
    - Connect a 12V DC external battery (sold separately) to the DC terminals on the rear panel. Connect the positive (+) terminal of the battery to the positive (+) terminal of the UPS, and the negative (-) terminal of the battery to the negative (-) terminal of the UPS.
    - *Warning: Incorrect battery polarity connection will damage the UPS.*

4. **Charging Current Setting:** Adjust the "Charging Current" switch on the rear panel (L/M/H) according to your external battery's specifications. Consult your battery's manual for the recommended charging current.
5. **Connecting to AC Power:** Plug the UPS power cord into a grounded 230V AC wall outlet. The UPS will begin charging the external battery.
6. **Connecting Devices:** Plug your electronic devices (e.g., computer, monitor, router) into the 230V Schuko output sockets on the rear panel of the UPS.

6. Operating Instructions

6.1 Powering On/Off

- **To Power On:** Press and hold the power button on the front panel for approximately 3 seconds until the LCD display illuminates.
- **To Power Off:** Press and hold the power button on the front panel for approximately 3 seconds until the LCD display turns off.

6.2 LCD Display Indicators

The LCD display provides critical operational status. Refer to Figure 6.1 for a visual guide.

Figure 6.1: LCD Display showing status indicators.

- **Input Voltage:** Displays the current AC input voltage from the mains.
- **Output Voltage:** Displays the current AC output voltage supplied by the UPS.
- **Load Level:** Indicates the percentage of the UPS's capacity being used by connected devices.
- **Battery Capacity:** Shows the remaining charge level of the external battery.

- **Utility Mode:** Indicates the UPS is operating on mains power and charging the battery.
- **Battery Mode:** Indicates the UPS is supplying power from the external battery during a power outage.
- **Overload:** Warns if the connected load exceeds the UPS's capacity.
- **Check:** Indicates a system fault or warning.

6.3 Audible Alarm

The UPS emits audible alarms to indicate various statuses (e.g., battery mode, low battery, overload). The audible alarm can be muted by pressing the dedicated button on the front panel.

6.4 Automatic Voltage Regulation (AVR)

The AVR function automatically stabilizes fluctuating input voltage to a safe level, protecting connected devices without switching to battery power.

6.5 Pure Sine Wave Output

The UPS provides a pure sine wave output, which is identical to utility power. This ensures compatibility and safe operation for sensitive electronic equipment, such as servers, gaming PCs, and audio/video systems.

7. Maintenance

- **Cleaning:** Regularly clean the exterior of the UPS with a soft, dry cloth. Do not use liquid cleaners or solvents. Ensure ventilation openings are free from dust and debris.
- **Battery Care:** Since an external battery is used, refer to the battery manufacturer's guidelines for optimal maintenance and lifespan. Ensure the battery is kept charged.
- **Fuse Replacement:** The UPS features a replaceable DC fuse for battery reverse protection. If the fuse blows, disconnect the UPS from all power sources (AC and battery) and replace it with a fuse of the same type and rating. Consult qualified personnel if unsure.
- **Storage:** If storing the UPS for an extended period, ensure the external battery is fully charged and disconnect it from the UPS. Store the unit in a cool, dry place.

8. Troubleshooting

This section addresses common issues you might encounter. If the problem persists, contact customer support.

Problem	Possible Cause	Solution
UPS does not turn on.	No AC input power; External battery not connected or discharged; Power button not pressed long enough.	Check AC power connection; Ensure external battery is connected and charged; Press and hold the power button for 3 seconds.
No power output from sockets.	UPS is off; Overload; Circuit breaker tripped.	Turn on the UPS; Reduce connected load; Reset the circuit breaker on the rear panel.
UPS beeps continuously or LCD shows "Overload".	Too many devices connected; Connected devices draw too much power.	Disconnect non-essential devices to reduce the load.

Problem	Possible Cause	Solution
Battery does not charge.	AC input problem; Battery terminals incorrectly connected; Charging current switch set incorrectly; Faulty external battery.	Check AC power; Verify battery polarity; Adjust charging current switch (L/M/H); Test or replace external battery.
UPS switches to battery mode frequently.	Unstable AC input voltage; Frequent power fluctuations.	This is normal operation for AVR. If it's excessive, check your mains power quality.

9. Specifications

Feature	Specification
Brand	Green Cell
Model	UPSLPPC800
Output Power (Watt)	800 Watt
Output Power (VA)	1200 VA
Input Voltage	230V AC (Nominal)
Output Voltage	230V AC (Nominal)
Waveform	Pure Sine Wave
Battery Type Required	External 12V DC (not included)
Dimensions (L x W x H)	42.1 x 25.8 x 20.1 cm
Weight	10 kg (without external battery)
Material	Metal

10. Warranty and Support

For warranty information and technical support, please refer to the documentation provided with your purchase or contact Green Cell customer service directly. Details can typically be found on the manufacturer's official website or through your retailer.