## Green Cell UPS02

# Green Cell UPS 800VA (480W) Line Interactive AVR User Manual

Model: UPS02

## Introduction

The Green Cell UPS (Uninterruptible Power Supply) is designed to provide comprehensive power protection for connected equipment against power outages and voltage surges. This device ensures that in the event of a power interruption, you have sufficient time to save your work and safely shut down your equipment.
This manual will guide you through the installation, operation, maintenance, and troubleshooting of your Green Cell UPS 800VA (480W) Line Interactive AVR.

## Product Overview

The Green Cell UPS02 features a total power output of 480W and an apparent power of 800VA. It is equipped with Green Cell AGM rechargeable batteries, ensuring stable and safe parameters for the proper functioning of connected devices. The unit provides a modified sine wave output and includes 2 Schuko outlets, a USB port, and RJ11 ports for connectivity.



**Figure 1:** Front and Rear Panel Overview of the Green Cell UPS02. This image highlights the LCD display, power button, USB port, RJ11 ports, Schuko outlets, and reset button.

### Key Components:

- **LCD Display:** Shows real-time status and parameters.
- **Power Button:** Controls the UPS power on/off.
- **USB Port:** For connecting to a computer for monitoring and management.
- **RJ11 Ports:** Provides surge protection for telephone/network lines.
- **Schuko Outlets:** Two outlets for connecting devices requiring battery backup and surge protection.
- **Reset Button:** For resetting the UPS in case of overload or fault.

## Setup

1. **Unpacking:** Carefully remove the UPS from its packaging. Inspect for any damage.
2. **Placement:** Place the UPS in a well-ventilated area, away from direct sunlight, heat sources, and moisture. Ensure sufficient space around the unit for proper airflow.
3. **Initial Charging:** Before connecting any devices, plug the UPS into a standard wall outlet and allow it to charge for at least 8 hours. This ensures the battery is fully charged and ready to provide maximum backup time.
4. **Connecting Devices:**
    - Connect your computer, monitor, and other critical electronic devices to the Schuko outlets on the rear of the UPS. These outlets provide both battery backup and surge protection.
    - For surge protection of telephone or network lines, connect the incoming line to the "IN" RJ11 port and your device (e.g., modem) to the "OUT" RJ11 port.
    - Connect the USB cable from the UPS to your computer to enable monitoring and management software functionality.
5. **Power On:** Press the power button on the front panel to turn on the UPS. The LCD display will illuminate, showing current status.




**Figure 2:** Rear panel of the UPS02 showing the USB port, RJ11 ports (IN/OUT), reset button, and two Schuko outlets for connecting devices.

## Operation

### Normal Operation:

During normal operation, the UPS provides power to connected devices from the utility power while simultaneously charging its internal battery. The LCD display will show input/output voltage, battery charge level, and load percentage.

### Battery Backup Mode:

In the event of a power outage or significant voltage fluctuation, the UPS will automatically switch to battery backup mode. This transition occurs within 2-6 milliseconds, ensuring uninterrupted power to your devices. The UPS will emit an audible alarm, and the LCD display will indicate battery operation. The backup time can be up to 25 minutes, depending on the connected load.

## Software Management:

The Green Cell UPS comes with user-friendly software that allows for advanced monitoring and management from your computer. Connect the UPS to your computer via the USB port to utilize these features.

- **Real-time Monitoring:** View input/output voltage, frequency, battery status, and load percentage.
- **Notifications:** Receive alerts for power events, low battery, or other critical conditions.
- **Scheduled Shutdowns:** Program the UPS to automatically shut down connected devices or itself under specific conditions (e.g., prolonged power outage, low battery).
- **Remote Management:** Configure remote access and email notifications for monitoring the UPS status from anywhere.




**Figure 3:** Screenshot of the Green Cell UPS software dashboard, showing real-time monitoring of input/output voltage, frequency, battery charge, and load.




**Figure 4:** Screenshot of the Green Cell UPS software scheduling options, allowing users to program actions based on power events.

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**Video 1:** This video demonstrates the Green Cell UPS software interface, showcasing features like real-time monitoring, device status, and programmable actions for power interruptions. It illustrates how to silence alarms, view device parameters, and set up scheduled events.

## Maintenance

- **Battery Care:** The UPS contains a 12V/9Ah AGM battery. To maximize battery life, ensure the UPS is always connected to a power source to keep the battery charged. Avoid frequent deep discharges. Batteries typically last 3-5 years and may require replacement after this period.
- **Cleaning:** Keep the UPS clean and free from dust. Use a dry cloth to wipe the exterior. Do not use liquid cleaners or solvents.
- **Ventilation:** Ensure that the ventilation openings on the UPS are not blocked to prevent overheating.
- **Storage:** If storing the UPS for an extended period, ensure the battery is fully charged, then disconnect it from the power source. Recharge the battery every 3-6 months to prevent deep discharge and damage.

## Troubleshooting

| Problem | Possible Cause | Solution |
|---|---|---|
| UPS does not turn on. | No utility power; low battery; internal fault. | Check power cord connection and wall outlet. Charge the UPS for 8 hours. If problem persists, contact support. |
| UPS beeps continuously in normal mode. | Overload; battery fault. | Reduce connected load. Check battery status via software. |
| Short backup time. | Overload; aging battery; insufficient charging. | Reduce load. Ensure full charge. Consider battery replacement if old. |
| UPS does not provide power after a power outage. | Battery fully discharged; UPS in fault mode. | Ensure utility power is restored and UPS is charging. Press the reset button if available. |
| LCD display remains constantly lit. | This is a known characteristic of some models. | No functional solution available to dim or turn off the display via software or physical controls. |

## Specifications

| | |
|---|---|
| **Brand** | Green Cell |
| **Model** | UPS02 |
| **Apparent Power** | 800VA |
| **Output Power** | 480W |
| **Input/Output Voltage** | 230V |
| **Waveform** | Modified Sine Wave |
| **Battery Type** | 1 x 12V/9Ah AGM |
| **Charging Time** | 8 Hours |

| | |
|---|---|
| **Switchover Time** | 2-6 milliseconds |
| **Outlets** | 2x Schuko |
| **Ports** | USB, RJ11 (IN/OUT) |
| **Dimensions (L x W x H)** | 14.2 x 10.1 x 29.8 cm |
| **Weight** | 4 kg |
| **Material** | Plastic |

## Warranty and Support

For warranty information, technical support, or service inquiries, please refer to the official Green Cell website or contact your local retailer. Keep your purchase receipt as proof of purchase for warranty claims.

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