

Green Cell UPS05

Green Cell UPS05 (2000-3000VA / 1200W) Instruction Manual

Model: UPS05

1. INTRODUCTION TO UNINTERRUPTIBLE POWER SUPPLIES (UPS)

An Uninterruptible Power Supply (UPS) is a device designed to provide emergency power to connected equipment when the main power source fails. This ensures continuous operation and protection against power outages, voltage fluctuations, and surges. Using a UPS allows you to safely save your work and shut down equipment, preventing data loss and potential hardware damage.

Benefits of a Green Cell UPS

- Protects connected devices from power interruptions, safeguarding your work.
- Regulates output current parameters, ensuring correct voltage even during faults.
- Features an RJ45 socket for protecting network devices like laptops and routers from surges.

Cos'è un alimentatore UPS? Per cosa viene utilizzato?

Un gruppo di continuità (UPS) è un dispositivo progettato per fornire energia quando manca la corrente. Un'interruzione improvvisa può causare non solo la perdita di dati importanti, ma anche danni alle apparecchiature. Con un UPS collegato, si guadagna tempo per salvare il lavoro e spegnere in sicurezza le apparecchiature.

Figure 1: Explanation of UPS function and benefits.

Un UPS Green Cell:

- protegge i dispositivi ad esso collegati dalle interruzioni di corrente, preservando così i risultati del lavoro,
- regola i parametri di corrente in uscita, garantendo la tensione corretta in caso di guasto,
- dispone di una presa RJ45 dedicata per proteggere il computer portatile, il router o altri dispositivi ad esempio dalle sovratensioni.



Computer



Sistemi di allarme



Server



Registratori di cassa



Apparecchiature RTV



Router

Figure 2: Examples of devices protected by a Green Cell UPS, including computers, alarm systems, servers, cash registers, RTV equipment, and routers.

2. PRODUCT OVERVIEW

Physical Components

The Green Cell UPS05 features a robust tower design with an intuitive front panel and comprehensive rear connectivity. The front panel includes an LCD display for real-time status monitoring and a power button. The rear panel provides various output sockets and communication ports.



Figure 3: Front view of the Green Cell UPS05, showing the LCD display and power button.



Figure 4: Rear view of the Green Cell UPS05, detailing the USB port, RJ45 ports (IN/OUT), fan, IEC input, and multiple Schuko/IEC output sockets.

Key Features

- **Power Capacity:** 2000-3000VA (1200W) for robust power backup.
- **Battery:** Equipped with 2 x 12V/9Ah AGM rechargeable batteries for stable performance.
- **Output:** 4x Schuko + IEC outlets for connecting multiple devices.

- **Voltage Waveform:** Modified Sine Wave output.
- **Automatic Voltage Regulation (AVR):** Stabilizes input voltage to protect connected devices.
- **Fast Switching Time:** 2-6 milliseconds to battery mode.
- **LCD Display:** Provides real-time information on operating parameters.
- **Connectivity:** USB and RJ45 ports for communication and surge protection.

3. SETUP INSTRUCTIONS

3.1 Unpacking and Placement

- Carefully unpack the UPS and inspect for any shipping damage.
- Place the UPS in a cool, dry, and well-ventilated area, away from direct sunlight, heat sources, and moisture. Ensure adequate space around the unit for proper airflow, especially around the fan on the rear panel.
- The unit is heavy (11 kg); ensure it is placed on a stable surface.

3.2 Connecting Devices

1. **Connect the UPS to Mains Power:** Plug the UPS power cord into a grounded wall outlet. The UPS will begin charging its internal batteries. Allow at least 8 hours for the batteries to fully charge before initial use.
2. **Connect Equipment:** Plug your computer, monitor, router, and other critical devices into the Schuko and IEC output sockets on the rear of the UPS. Ensure the total power consumption of connected devices does not exceed the UPS's maximum output power of 1200W.
3. **USB Communication (Optional):** Connect the UPS to your computer using the provided USB cable. This enables monitoring and management features via the Green Cell UPS software.
4. **RJ45 Surge Protection (Optional):** For network devices, connect your incoming network cable to the RJ45 'IN' port and then connect the 'OUT' port to your device (e.g., router, modem) for surge protection.

3.3 Initial Power-On

- After connecting all devices and allowing initial battery charging, press the power button on the front panel to turn on the UPS.
- The LCD display will illuminate, showing current status information such as input/output voltage, battery charge level, and load percentage.

4. OPERATING INSTRUCTIONS

4.1 Turning On/Off

- **To Turn On:** Press and hold the power button on the front panel for approximately 3 seconds until the display lights up and the UPS emits a beep.
- **To Turn Off:** Press and hold the power button for approximately 3 seconds until the display turns off and the UPS emits a beep.

4.2 Understanding the LCD Display

The LCD display provides critical information about the UPS's operational status. It typically shows:

- Input Voltage (V)
- Output Voltage (V)

- Battery Charge Level (%)
- Load Percentage (%)
- Operating Mode (e.g., AC mode, Battery mode, AVR mode)

4.3 Using the Green Cell UPS Software

The dedicated Green Cell UPS software (e.g., UPSilon 2000) allows for advanced monitoring and management of your UPS from a connected computer. This software can be downloaded from the official Green Cell website.

- **Monitoring:** View real-time operating parameters, battery status, and power flow.
- **Scheduling:** Program automatic shutdown operations for connected devices in case of prolonged power outages or low battery.
- **Notifications:** Set up email notifications for various UPS events.
- **Remote Access:** Manage the UPS remotely within your home network.

Onda sinusoidale pura o modificata?

A seconda delle apparecchiature supportate dall'UPS, è possibile scegliere una variante a onda sinusoidale pura o modificata.

Se il dispositivo richiede un'onda sinusoidale pura, cioè la stessa che si trova in una presa elettrica (ad esempio, frigorifero, microonde e altri apparecchi con motore a induzione), un UPS con onda sinusoidale pura è più adatto all'applicazione.

Per gli apparecchi meno esigenti, come lampadine, laptop, bollitore, computer o qualsiasi altro apparecchio che funziona senza problemi con un'onda sinusoidale modificata, si può scegliere un UPS con onda sinusoidale modificata.

Figure 5: Overview of the Green Cell UPS software application.

Software proprietario

I parametri più importanti sempre sotto controllo

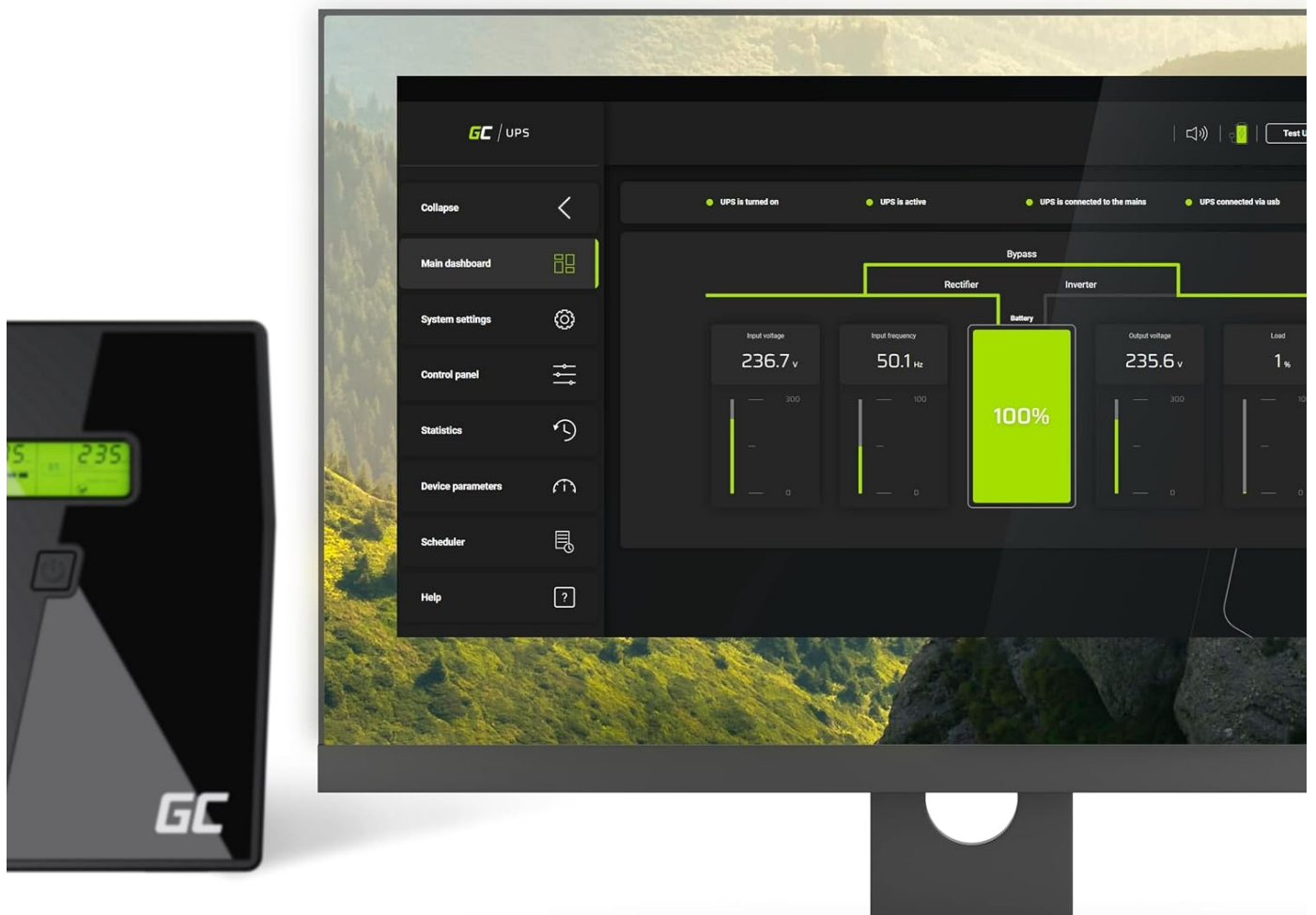


Figure 6: Software dashboard showing real-time monitoring of input frequency, battery charge, output voltage, and load.

Possibilità di programmare il funzionamento dell'unità in caso di interruzione dell'alimentazione

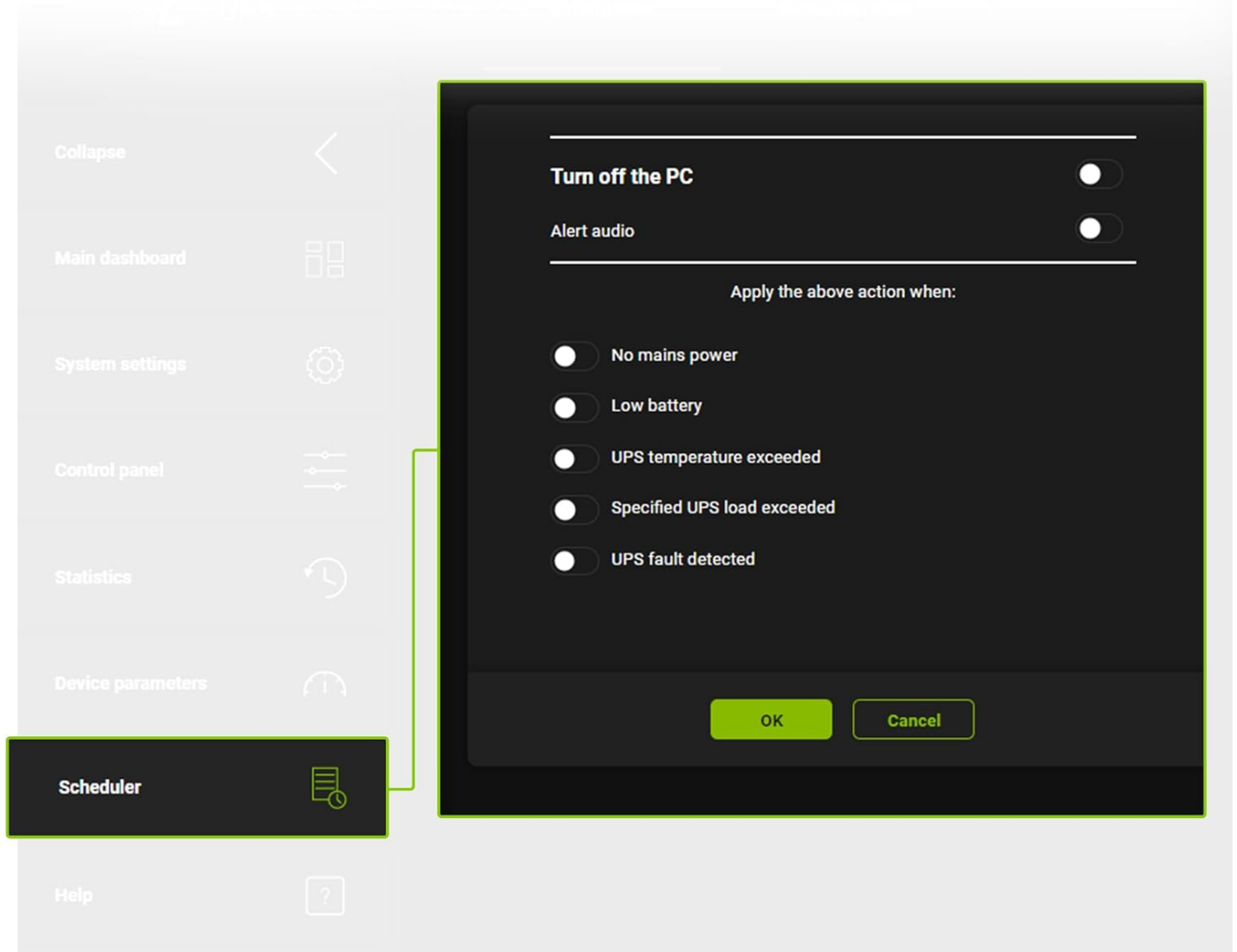


Figure 7: Software scheduler interface for programming automatic actions based on power events.

5. MAINTENANCE

5.1 Battery Care

The UPS uses AGM (Absorbent Glass Mat) lead-acid batteries, which typically have a lifespan of 3 to 5 years. Proper care can extend their life:

- **Initial Charge:** Ensure the UPS is fully charged for at least 8 hours before first use.
- **Regular Charging:** Keep the UPS connected to mains power to ensure batteries remain charged.
- **Avoid Deep Discharges:** While the UPS protects against power loss, frequent deep discharges can reduce battery lifespan. Allow the UPS to recharge fully after a power event.
- **Battery Replacement:** Batteries are consumable items. If the runtime significantly decreases, consider replacing the batteries. This should be performed by qualified personnel.

5.2 Cleaning

- Ensure the UPS is turned off and disconnected from the mains before cleaning.
- Use a soft, dry cloth to clean the exterior of the unit.
- Do not use liquid cleaners or aerosols, as they may damage the unit.
- Periodically check and clean the fan vents to ensure unobstructed airflow.

5.3 Environmental Considerations

- Operate the UPS within its specified temperature and humidity ranges.
- Avoid placing the UPS in dusty environments, which can lead to internal component damage and overheating.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your Green Cell UPS. For more complex problems, refer to the official Green Cell support resources.

6.1 Common Issues and Solutions

Problem	Possible Cause	Solution
UPS does not turn on.	No mains power; discharged battery; internal fault.	Check power cable connection and wall outlet. Allow UPS to charge for several hours. If problem persists, contact support.
Short backup time.	Overloaded UPS; old/worn-out batteries; insufficient charging.	Reduce connected load. Ensure batteries are fully charged. Consider battery replacement if they are old.
UPS emits continuous beeping.	Battery mode (power outage); low battery; overload.	During power outage, save work and shut down. If low battery, allow to charge. If overload, reduce connected devices.
LCD display remains constantly lit.	This model's display is designed to remain active.	This is normal operation. There is no software option to turn off or dim the display. If light is an issue, physical obstruction may be necessary.
Unusual electrical noises (e.g., coil whine).	Normal operation under certain load conditions; component wear.	Some noise can be normal, especially under high load or during charging. If noises are excessive or new, monitor performance. If it affects functionality, contact support.
Strong plastic odor upon initial use.	New product off-gassing.	This is normal for new electronics and should dissipate within a few days. Ensure good ventilation.

6.2 Software Compatibility Issues

Some users have reported that the provided UPSilon 2000 software might be outdated or have compatibility issues with newer operating systems or specific hardware configurations (e.g., NVIDIA drivers). If you experience issues:

- Ensure you have the latest version of the software from the Green Cell website.
- Check for updated drivers or compatibility patches.
- For basic shutdown functionality, Windows often recognizes HID-compliant UPS devices, allowing automatic shutdown without proprietary software. Verify if your system detects the UPS as a standard battery device.

7. SPECIFICATIONS

Below are the detailed technical specifications for the Green Cell UPS05 (2000-3000VA / 1200W) model:

Feature	Specification
Brand	Green Cell
Model Number	UPS05
Apparent Power	2000-3000VA
Maximum Power	1200W
Input Voltage	230 Volt
Output Voltage	230 Volt
Output Current	5.2 Ampere
Frequency Range	50 Hz or 60 Hz (auto-sensing)
Battery Type	Lead Acid, AGM (2 x 12V/9Ah)
Battery Charge Time	8 Hours
Runtime (typical)	Up to 50 minutes (depending on load)
Switching Time	2-6 milliseconds (Line Interactive AVR)
Number of Outlets	4 (Schuko + IEC)
Communication Ports	USB, RJ45
Form Factor	Tower
Dimensions (DxWxH)	38P x 15.8I x 19.8H cm (38 x 15.8 x 19.8 cm)
Weight	11000 Grams (11 kg)
Material	Plastic
Certifications	CE, ES 62040-2:2006

8. WARRANTY AND SUPPORT

8.1 Product Warranty

The Green Cell UPS05 comes with a **2-year product warranty**. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

Note: Batteries are consumable items and their performance naturally degrades over time. The warranty typically covers manufacturing defects in batteries but not normal wear and tear or reduced capacity due to age.

8.2 Customer Support

For technical assistance, troubleshooting beyond this manual, or warranty claims, please contact Green Cell customer support. You can typically find contact information (phone, email, support portal) on the official Green Cell website or

through your retailer.

When contacting support, please have your product model (UPS05) and proof of purchase readily available to expedite the service process.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question