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UGREEN PowerRoam 2200

UGREEN PowerRoam 2200 Portable Power Station User Manual

Model: PowerRoam 2200 (GS2200)

1. Introduction

The UGREEN PowerRoam 2200 is a high-capacity portable power station designed to provide reliable electricity for various applications, including outdoor camping, home backup, and RV use. Featuring a 2048Wh LiFePO4 battery and a 2400W AC output, it offers versatile power solutions for a wide range of devices and appliances.



Image 1.1: UGREEN PowerRoam 2200 Portable Power Station with its detachable wheeled trolley.

2. Safety Instructions

Please read and understand all safety instructions before operating the UGREEN PowerRoam 2200. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Do not disassemble, repair, or modify the unit.
- Keep the unit away from heat sources, direct sunlight, and flammable materials.
- Do not expose the unit to water or other liquids.
- Ensure proper ventilation during use and charging to prevent overheating.

- Use only UGREEN-approved accessories and charging cables.
- Keep out of reach of children and pets.
- In case of fire, use a dry powder fire extinguisher. Do not use water.

3. Package Contents

Verify that all items are present in your package:

- UGREEN PowerRoam 2200 Portable Power Station
- AC Charging Cable
- Car Charging Cable
- Solar Charging Cable (MC4 to XT60)
- User Manual
- Detachable Wheeled Trolley (Optional, may be included depending on package)

4. Product Overview

Familiarize yourself with the various components and ports of your PowerRoam 2200.



Image 4.1: Front and side view of the UGREEN PowerRoam 2200, highlighting input and output ports.

4.1 Front Panel

- **LCD Display:** Shows battery level, input/output power, and status indicators.
- **Power Button:** Turns the unit on/off.
- **AC Output Button:** Activates/deactivates AC outlets.
- **DC Output Button:** Activates/deactivates DC outlets.
- **USB-A Ports (x2):** For charging compatible USB devices (22.5W each).
- **USB-C Ports (x4):** For charging compatible USB-C devices (up to 140W max).

4.2 Side Panels

- **AC Outlets (x6):** Standard household outlets (2400W total).
- **RV/Anderson Port (x1):** For high-power DC devices (300W max).

- **DC5521 Outlets (x2):** For 12V DC devices (120W max).
- **Car Outlet (x1):** Standard 12V car port (120W max).
- **AC Input Port:** For charging the power station via AC wall outlet.
- **Solar/Car Input Port:** For charging via solar panels or car charger.

5. Setup

5.1 Initial Charging

Before first use, fully charge your PowerRoam 2200. Connect the AC charging cable to the AC input port on the power station and then to a wall outlet. The LCD display will show the charging status. A full charge from 0% to 100% typically takes approximately 1.5 hours using AC input.



Image 5.1: The PowerRoam 2200 connected to a wall outlet for rapid charging.

5.2 Attaching the Wheeled Trolley

If your package includes the detachable wheeled trolley, align the power station with the trolley base and secure it according to the instructions provided with the trolley. This enhances portability.



Image 5.2: The PowerRoam 2200 being moved with its detachable wheeled trolley.

6. Operating the Power Station

6.1 Turning On/Off

Press and hold the main Power Button for 3 seconds to turn the unit on or off. The LCD display will illuminate.

6.2 Using AC Outlets

Press the AC Output Button to activate the AC outlets. Connect your AC-powered devices. The PowerRoam 2200

provides a total of 2400W AC output, capable of powering up to 99% of common home appliances. For devices requiring more power, the PowerRoam 2200 supports a surge power of up to 3500W.

6.3 Using DC and USB Outlets

Press the DC Output Button to activate the DC and USB outlets. Connect your USB-A, USB-C, DC5521, Car, or RV/Anderson devices. The unit features 2 USB-A ports (22.5W each), 4 USB-C ports (up to 140W max), 2 DC5521 outlets (120W max), 1 Car outlet (120W max), and 1 RV/Anderson port (300W max).

6.4 Solar Charging

Connect compatible solar panels (up to 1200W input) to the Solar/Car Input Port using the provided solar charging cable. Position the solar panels in direct sunlight for optimal charging efficiency. The PowerRoam 2200 can recharge to 100% in approximately 2.5 hours with 6x 200W solar panels.



Image 6.1: The PowerRoam 2200 being charged by solar panels in an outdoor setting.

6.5 Expandable Capacity

The PowerRoam 2200's capacity can be expanded from 2048Wh up to 12kWh by connecting additional expansion batteries. Expansion batteries are sold separately. Refer to the expansion battery manual for connection instructions.



Image 6.2: The PowerRoam 2200 with two stacked expansion batteries, demonstrating its expandable capacity.

6.6 Uninterruptible Power Supply (UPS) Function

When connected to a wall outlet and powering devices, the PowerRoam 2200 can function as an Uninterruptible Power Supply (UPS). In the event of a power outage, it automatically switches to battery power within 20 milliseconds, ensuring continuous operation for connected devices.

7. Smart App Control

Download the UGREEN app from your device's app store to control and monitor your PowerRoam 2200 via Bluetooth or

Wi-Fi. The app allows you to:

- Monitor real-time input and output power.
- Check battery status and remaining runtime.
- Enable Quiet Mode for reduced fan noise.
- Activate Power-Saving Mode to optimize energy consumption.
- Update firmware.



Image 7.1: The UGREEN PowerRoam 2200 being controlled and monitored via the smartphone application.

8. Maintenance

8.1 Cleaning

Use a dry, soft cloth to clean the exterior of the unit. Do not use abrasive cleaners or immerse the unit in water.

8.2 Storage

Store the PowerRoam 2200 in a cool, dry place, away from direct sunlight and extreme temperatures. For long-term storage, it is recommended to discharge the battery to about 50% and recharge it to 80% every 3-6 months to prolong battery life. The LiFePO4 batteries are designed for over 3000 cycles, offering a 10-year lifespan with proper care.

Image 8.1: The PowerRoam 2200 features LiFePO4 batteries, offering over 3000 cycles and a 10-year lifespan.

9. Troubleshooting

If you encounter issues with your PowerRoam 2200, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Unit does not turn on	Battery is completely discharged.	Connect to an AC outlet for charging.
No output from AC/DC/USB ports	Output ports not activated. Overload protection triggered.	Press the respective output button. Reduce connected load.
Slow charging via solar	Insufficient sunlight. Panels not properly aligned.	Ensure panels are in direct sunlight and angled correctly. Check connections.
Error Code F05	Low battery warning, requires charging.	Charge the unit immediately using AC or solar input.

If the problem persists, please contact UGREEN customer support.

10. Specifications

Detailed technical specifications for the UGREEN PowerRoam 2200.

Feature	Specification
Model Name	PowerRoam 2200 (GS2200)
Battery Type	LiFePO4
Capacity	2048Wh
AC Output	6 x 2400W (Total), 3500W Surge
USB-A Output	2 x 22.5W
USB-C Output	4 x 140W (Max)
DC5521 Output	2 x 120W

Feature	Specification
Car Outlet Output	1 x 120W
RV/Anderson Output	1 x 300W
AC Input	Fast Charging (Approx. 1.5 hours to 100%)
Solar Input	Up to 1200W (Approx. 2.5 hours to 100% with 6x 200W panels)
Expandable Capacity	Up to 12kWh with expansion batteries (sold separately)
UPS Function	20ms Switchover Time
Dimensions	21.2 x 9.8 x 11.4 inches
Connectivity	Bluetooth, Wi-Fi (via UGREEN App)



Image 10.1: Dimensions of the UGREEN PowerRoam 2200.

11. Warranty and Support

UGREEN products come with a limited warranty. For detailed warranty information, please refer to the warranty card included in your package or visit the official UGREEN website. If you require technical assistance or have any questions, please contact UGREEN customer support through their official channels.

UGREEN Official Website: www.ugreen.com

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