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GRECELL H2400

GRECELL Portable Power Station H2400 User Manual

Model: H2400 | Brand: GRECELL

1. INTRODUCTION

The GRECELL Portable Power Station H2400 is a high-capacity, versatile power solution designed for various applications, including home backup, outdoor adventures, RV camping, and professional use. Equipped with a durable 1843.2Wh LiFePO4 battery and capable of delivering 2400W continuous AC output (4800W peak), it provides reliable power for a wide range of devices. This manual provides essential information for safe and efficient operation, setup, and maintenance of your H2400 power station.



Figure 1: GRECELL H2400 Portable Power Station with included 100W foldable solar panels.

2. PACKAGE CONTENTS

Please check the package to ensure all items are present:

- 1 x GRECELL 2400W Portable Solar Generator (H2400)
- 2 x 100W Foldable Solar Panels

- 1 x AC Charger Cable
- 1 x Car Charger Cable
- 2 x Anderson Cables
- 1 x DC 5.5*2.1mm Cable
- 1 x DC5.5*2.1mm to 5.5*2.5mm Adapter
- 1 x DC5.5*2.1mm to 7.9*0.9mm Adapter
- 1 x Cable Storage Bag
- 1 x User Manual

3. PRODUCT OVERVIEW

The GRECELL H2400 features a robust design with multiple output ports and intuitive controls. Familiarize yourself with the layout and functions of the power station.



Figure 2: Front panel of the H2400 Power Station, highlighting DC, USB, and AC outputs, along with the LCD display.

3.1 Output Ports

- **AC Output:** 4 x 2400W (120V-60Hz) pure sine wave outlets.

- **USB Output:** 2 x USB-A (QC18W) and 2 x USB-C (PD100W) ports for fast charging mobile devices.
- **DC Output:** 2 x DC ports (12V/5A) and 1 x Car Socket (12V/10A).

3.2 LCD Display

The informative LCD display provides real-time data on input/output wattage, battery level, and remaining run/charge time.



Limitless Power, Limitless Off-Grid Life



Figure 3: The LCD display shows input/output power, battery status, and estimated time.

3.3 LED Light & SOS Mode

The unit includes a 5W LED light with multiple modes (Half Bright, Full Bright, Strobe, SOS) for illumination during emergencies or outdoor activities.



Figure 4: The integrated LED light provides illumination and an SOS function.

3.4 Cooling System

The H2400 is equipped with quiet cooling fans to maintain optimal operating temperature, ensuring longevity and stable performance. Fan noise levels range from 0dB (off) to 55dB (at 2400W output).

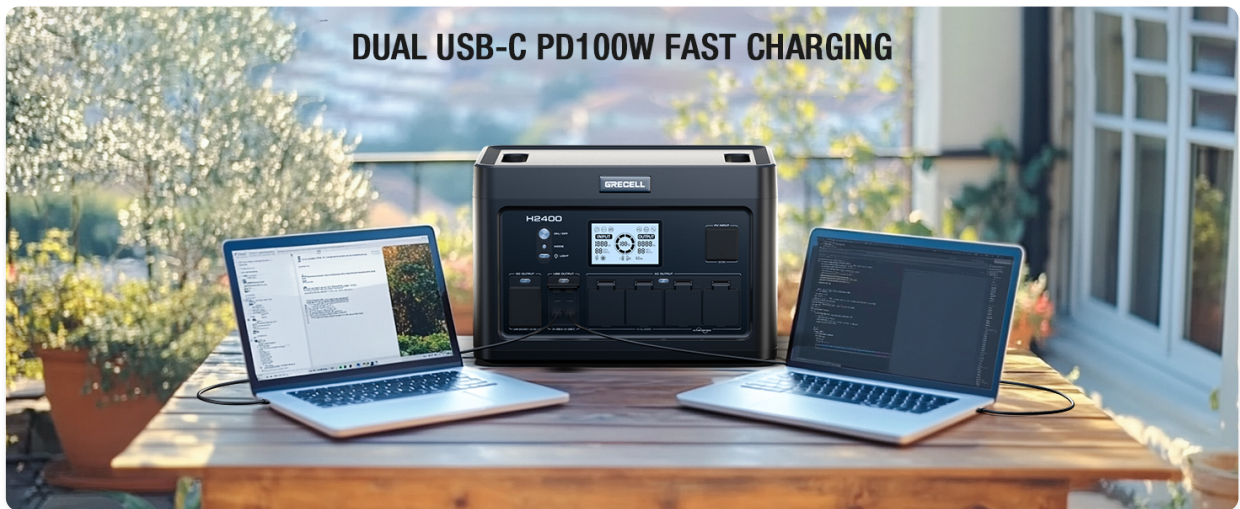


Figure 5: The H2400 features quiet cooling fans to prevent overheating.

3.5 Safety Features

The power station incorporates multiple safety protections, including:

- Over Current Protection
- Over Load Protection
- Short Circuit Protection
- Low Voltage Protection
- Over Voltage Protection
- Over Discharge Protection
- Low Temperature Protection
- High Temperature Protection
- Pure Sine Wave Output
- Power Equalization



Figure 6: The H2400 is built with comprehensive multi-safety protections.

3.6 Solar Panels

The included 100W foldable solar panels are designed for high efficiency and durability, featuring monocrystalline solar cells and ETFE material for IP65 waterproofing.

Solar Panel 100W 20V 5A

- 100W High Power
- Wide Compatibility
- Dustproof
- 23.5% High Conversion Efficiency
- High-purity Monocrystalline Silicon
- Magnetic Folding

Figure 7: Features of the 100W Foldable Solar Panel, including high conversion efficiency and durable construction.

4. SETUP

4.1 Initial Charging

Before first use, fully charge your GRECELL H2400 using the provided AC adapter. This ensures optimal battery performance and longevity.

4.2 Connecting Solar Panels

Connect the 100W solar panels to the H2400 using the provided Anderson cables. The panels support series and parallel connections to optimize charging speed. Ensure panels are positioned for maximum sunlight exposure.



Figure 8: Connecting two solar panels in parallel for increased charging power.

4.3 Connecting to Car Charger

Use the provided car charger cable to charge the power station from your vehicle's 12V/24V cigarette lighter socket.

5. OPERATING INSTRUCTIONS

5.1 Powering On/Off

Press and hold the 'ON/OFF' button on the front panel to power the unit on or off. The LCD display will illuminate.

5.2 Using Outputs

Once powered on, press the respective buttons (AC, USB, DC) to activate the desired output ports. Connect your devices to the appropriate ports.

5.3 UPS Function

The H2400 features an Uninterruptible Power Supply (UPS) function. When connected to AC input, it can switch to battery power within 10ms in case of a power outage, ensuring continuous operation for connected devices like computers or medical equipment.



Figure 9: The H2400 provides reliable UPS backup for essential home devices.

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Video 1: Demonstrates the GRECELL H2400's ability to provide power during outages and for outdoor activities.

5.4 LED Light Operation

Press the 'LIGHT' button to cycle through the LED light modes: Half Bright, Full Bright, Strobe, and SOS. Press and hold to turn off.

6. CHARGING METHODS

The GRECELL H2400 offers multiple charging options to suit your needs:

- **AC Wall Outlet:** Fully charged in 1.6-2 hours (1200W Max input).
- **Solar Panels:** Fully charged in approximately 3 hours with 800W solar input.
- **Car Charger:** Fully charged in 6-14 hours.
- **Dual Charging (AC + Solar):** Fastest charging, fully charged in 1.8 hours or less (Max 1200W).



Figure 10: AC Ultra-Fast Recharge in 2 Hours.



Figure 11: Green Solar Power charging in about 3 hours on a sunny day.



Figure 12: Super Fast Recharge in 1.8 Hours with dual AC and solar input.

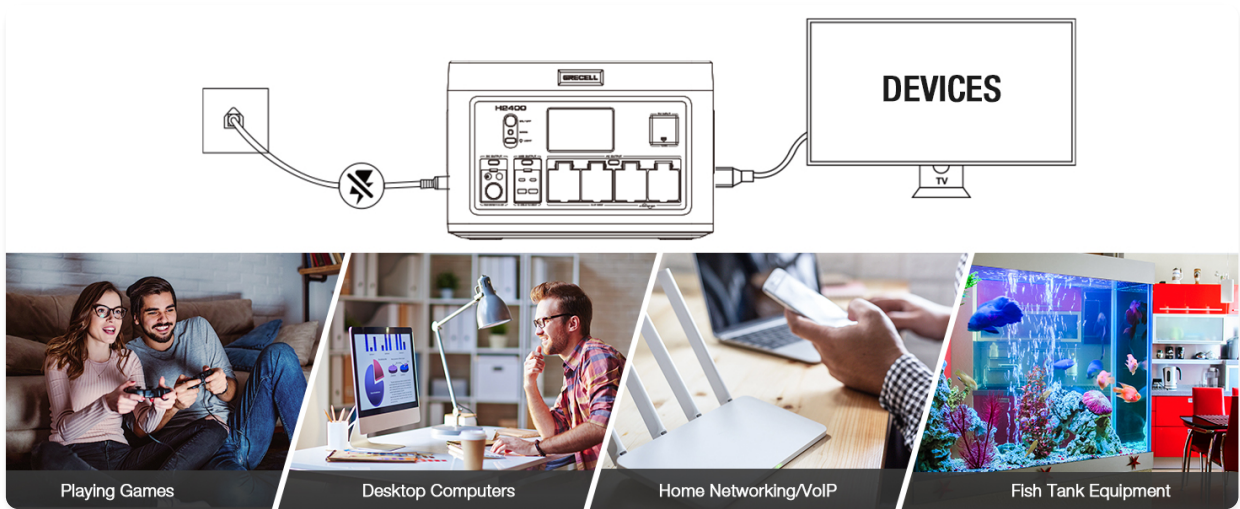


Figure 13: Convenient Carport Recharge via cigarette lighter.

7. MAINTENANCE

7.1 Battery Care

The H2400 uses a LiFePO4 battery, known for its long lifespan (3500+ cycles to 80% capacity). To maximize battery life, avoid fully discharging the unit frequently. Store the unit with at least 50% charge if not used for extended periods.

7.2 Cleaning and Storage

Keep the power station clean and free from dust. Store it in a cool, dry place away from direct sunlight and extreme temperatures. Ensure all ports are covered when not in use to prevent dust and moisture ingress.

8. TROUBLESHOOTING

If you encounter issues with your GRECELL H2400, please refer to the following common solutions:

- **No Power Output:** Ensure the unit is powered on and the specific output ports (AC/DC/USB) are activated. Check the battery level.
- **Charging Issues:** Verify that charging cables are securely connected. For solar charging, ensure panels are in direct sunlight and within the 12-75V input range.
- **Overload Protection:** If an overload occurs, the unit may shut down. Disconnect the overloaded device, press the OLP Reset button on the back, and restart the unit.

For more detailed troubleshooting, please consult the comprehensive user manual included in your package.

9. SPECIFICATIONS

Feature	Detail
Brand	GRECELL
Model Name	H2400

Battery Type	LiFePO4
Capacity	1843.2Wh / 576000mAh
AC Output	2400W (4800W Peak), 110V AC
Total Power Outlets	11
USB-A Output	2 x QC18W
USB-C Output	2 x PD100W
DC Output	2 x 12V/5A
Car Socket Output	1 x 12V/10A
Solar Input	Max 800W (12-75V)
AC Input	Max 1200W
UPS Switching Time	10ms
LED Light	5W
Dimensions (L x W x H)	16.94" x 11.82" x 11.03"
Weight	55 lbs
Material	ETFE, Oxford cloth (Solar Panel)

10. SAFETY INFORMATION

Please read and follow all safety instructions to prevent injury or damage to the product:

- Do not disassemble, repair, or modify the unit.
- Keep the unit away from fire, water, and extreme temperatures.
- Do not use the unit if it is damaged or has been dropped.
- Ensure proper ventilation during use and charging.
- Keep out of reach of children.
- Use only original or certified accessories.

11. WARRANTY & SUPPORT

The GRECELL Portable Power Station H2400 comes with a **2-year limited warranty** from the date of purchase. This warranty covers manufacturing defects and workmanship under normal use. Please retain your proof of purchase for warranty claims.

For technical support, troubleshooting assistance, or warranty inquiries, please contact GRECELL customer service through the official website or your retailer. Provide your model number (H2400) and purchase details for efficient service.

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Video 2: Detailed review of the GRECELL H2400 Power Station, including unboxing, features, and performance tests.

