



Manuals.plus /

› GRECELL /

› GRECELL 2400W Portable Power Station H2400 User Manual

## GRECELL H2400

# GRECELL 2400W Portable Power Station H2400 User Manual

Model: H2400 | Brand: GRECELL

## 1. INTRODUCTION AND OVERVIEW

The GRECELL 2400W Portable Power Station H2400 is a high-capacity, high-output portable power solution designed for various applications, including outdoor activities, home backup, and emergency power needs. Featuring an 1843.2Wh LiFePO4 battery and a 2400W (4800W Peak) AC output, it provides reliable power for a wide range of devices.

This power station is equipped with advanced safety features, fast recharging capabilities, and multiple output ports to ensure convenience and safety during use.

## 2. PRODUCT FEATURES

### 2.1 High Capacity and Power Output

The H2400 offers an 1843.2Wh capacity and a massive 2400W continuous power output (4800W peak), capable of powering up to 99% of common appliances. This includes drones, cameras, CPAP machines, laptops, smartphones, rice cookers, TVs, electric blankets, electric bikes, kettles, hair dryers, coffee makers, tools, electric ovens, microwaves, air conditioners, and refrigerators.

### 2.2 Intelligent UPS Mode

Equipped with an Uninterruptible Power Supply (UPS) function, the device automatically activates within 0.1 seconds during a power interruption. This protects sensitive devices like desktop PCs and file servers from data loss or damage.

### 2.3 Fast Recharging

The power station features advanced bidirectional inverter technology, allowing simultaneous charging and discharging. It can be fully charged in 1.6-2.5 hours via an AC adapter. Dual charging via solar panels (up to 800W) and AC (1200W Max) can achieve a full charge in 1.8 hours or less. Slow recharging options are also available. Solar charging (800W) takes approximately 3 hours, and car charging takes about 12-19 hours.

### 2.4 Multiple Output Ports

The H2400 can charge up to 12 devices simultaneously. It includes 4 AC ports (2400W), 2 standard USB-A QC18W ports, 2 USB-C PD100W ports, a 5W LED light, a wireless charging pad, a car port, and 2 DC ports.

## 2.5 Safe LiFePO4 Battery

Utilizes a LiFePO4 battery with a lifespan of over 3500 cycles, offering 4-7 times longer life than other battery types (estimated 10+ years). An advanced Battery Management System (BMS) provides comprehensive protection against over-charge, over-discharge, over-voltage, over-current, short-circuit, and high-temperature conditions. The built-in cooling system enhances heat dissipation efficiency by 30%.



Figure 1: Durable LiFePO4 Battery for long-lasting power.



Figure 2: Key features including 2400W output, 1843Wh capacity, and 12 output ports.

## 3. SETUP

Before first use, fully charge the power station. Ensure the unit is placed on a stable, flat surface in a well-ventilated area, away from direct sunlight or heat sources.

### 3.1 Initial Charging

Connect the provided AC charger to the AC input port on the power station and plug it into a wall outlet. The LCD display will show the charging status. The unit is fully charged when the battery indicator reaches 100%.



## GET 100% POWER IN UNDER 2 HOURS

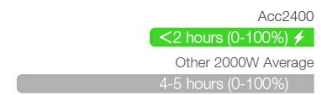


Figure 3: Power station being charged via AC adapter, reaching 100% in under 2 hours.

## 4. OPERATING INSTRUCTIONS

### 4.1 Powering On/Off

Press and hold the main power button to turn the unit on or off. The LCD display will activate, showing battery level, input/output wattage, and estimated remaining time.

### 4.2 Using AC Outlets

Press the AC button to activate the AC output ports. Plug your AC-powered devices into the available outlets. Ensure the total wattage of connected devices does not exceed 2400W.

### 4.3 Using DC/USB Ports

Press the DC/USB button to activate the DC and USB output ports. Connect your USB-powered devices (smartphones, tablets, laptops) or 12V DC devices. The USB-C PD100W ports are ideal for fast charging compatible laptops.

### 4.4 LED Light Functions

Press the Light button to cycle through different LED light modes: normal brightness, brighter, and SOS (for emergencies). This feature is useful during power outages or outdoor activities.

### 4.5 Wireless Charging

Place your wireless charging compatible device on the designated wireless charging pad on top of the unit to begin charging.




## 5. CHARGING METHODS

### 5.1 AC Charging

Use the included AC charger to plug the power station into a standard wall outlet. This method provides the fastest charging speed, fully charging the unit in 1.6-2.5 hours.



### 5.2 Solar Charging

Connect compatible solar panels (up to 800W) to the DC/PV input port. The power station will automatically begin charging when sufficient sunlight is available. A full charge via 800W solar panels takes approximately 3 hours under optimal conditions.



**GREEN SOLAR POWER**

Take a max.800W solar input to recharge your power station sufficiently in about **3 hours** on a perfect sunny day.

800W Solar Input      OCV: 12-75V


Figure 5: Power station being charged by solar panels (up to 800W input).

### 5.3 Car Charging

Use the provided car charging cable to connect the power station to your vehicle's 12V cigarette lighter port. This method is slower, taking about 12-19 hours for a full charge.



### 5.4 Dual Charging (AC + Solar)

For the fastest possible recharge, combine AC and solar input. With a maximum input of 1200W, the power station can be fully recharged in 1.8 hours or less.



**SUPER FAST RECHARGE IN 1.8 HRS**

Recharging by PV and AC simultaneously only takes **1.8 hours** with a max.input of **1200W**.

AC Input+Solar Panel

Figure 6: Dual charging with both AC and solar panels for rapid power replenishment.

## 6. MAINTENANCE

To ensure optimal performance and longevity of your GRECELL 2400W Portable Power Station H2400, follow these maintenance guidelines:

- **Regular Charging:** Fully charge the unit at least once every 3-6 months, even if not in use, to maintain battery health.
  - **Storage:** Store the power station in a cool, dry, and well-ventilated area, away from direct sunlight, moisture, and corrosive substances.
  - **Cleaning:** Use a dry, soft cloth to clean the exterior of the unit. Do not use liquid cleaners or immerse the unit in water.
  - **Temperature:** Avoid operating or storing the unit in extreme temperatures (below -10°C or above 40°C).
  - **Battery Longevity:** The LiFePO4 battery is designed for over 3500 cycles to 80% capacity, providing a lifespan of more than 10 years with proper care.
- 

## 7. TROUBLESHOOTING

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

- **Unit Not Turning On:** Ensure the battery is charged. If the unit is completely drained, it may require a few minutes of charging before it can power on.
  - **No Output from Ports:** Verify that the specific output section (AC, DC, USB) is activated by pressing its respective button. Check if the device being charged is functioning correctly.
  - **Overload Protection:** If the unit shuts down unexpectedly, it may be due to an overload. Disconnect some devices and restart the power station. The H2400 can handle devices up to 2400W (4800W peak).
  - **Slow Charging:** Ensure all charging cables are securely connected. For solar charging, verify that panels are in direct sunlight and free from obstructions. Consider dual charging (AC + Solar) for faster results.
  - **Display Not Working:** If the LCD display is unresponsive, try restarting the unit. If the problem persists, contact customer support.
- 

## 8. SPECIFICATIONS

Feature	Specification
Brand	GRECELL
Model Name	H2400
Battery Type	LiFePO4
Capacity	1843.2Wh
AC Output	2400W (4800W Peak)
Total Power Outlets	12
USB-C Output	2 x PD100W
USB-A Output	2 x QC18W
AC Input (Max)	1200W
Solar Input (Max)	800W
Recharge Time (AC)	1.6-2.5 hours
Recharge Time (AC+Solar)	1.8 hours
UPS Function	0.1s auto-switch
Dimensions (L x W x H)	16.93"L x 11.81"W x 11.02"H
Item Weight	55 Pounds

## 9. WHAT'S INCLUDED

Your GRECELL 2400W Portable Power Station H2400 package includes:

- 1 x 2400W Portable Power Station
- 1 x AC Charger
- 1 x Anderson Cable
- 1 x Car Charging Cable
- 1 x Cable Storage Bag
- 1 x User Manual



Figure 7: All items included in the product package.

## 10. WARRANTY AND SUPPORT

The GRECELL 2400W Portable Power Station H2400 is built with a durable LiFePO4 battery designed for a long lifespan of over 10 years and 3500+ charge cycles. For any operational questions, troubleshooting assistance beyond this manual, or warranty claims, please refer to the detailed User Manual included in your package or contact GRECELL customer support.