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› GRECELL S5 5040Wh Portable Power Station User Manual

GRECELL S5

GRECELL S5 5040Wh Portable Power Station User Manual

1. INTRODUCTION

This manual provides essential instructions for the safe and efficient operation, maintenance, and troubleshooting of your GRECELL S5 5040Wh Portable Power Station. Please read this manual thoroughly before using the product and retain it for future reference.



Figure 1: GRECELL S5 Portable Power Station, featuring a retractable handle and wheels for transport.

2. SAFETY INSTRUCTIONS

- Do not disassemble, repair, or modify the unit.
- Do not place the unit near heat sources or in direct sunlight.
- Do not use or store the unit in a bathroom or in areas exposed to water.
- Use only the provided accessories and chargers.
- Keep the unit away from children and pets.
- Ensure proper ventilation during use and charging.
- Avoid dropping or subjecting the unit to strong impacts.
- In case of fire, use a dry powder fire extinguisher.

Figure 2: The GRECELL S5 incorporates an advanced Battery Management System (BMS) with multiple protections, including over-voltage, over-current, over-heating, short-circuit, over-charge, and over-load protection.

3. PRODUCT OVERVIEW

3.1 Components and Ports

The GRECELL S5 Portable Power Station is equipped with various input and output ports to accommodate a wide range of devices.



Figure 3: Overview of the GRECELL S5's 16 output ports, including 6 AC outlets, 2 USB-C (PD60W), 3 USB-A (QC3.0 18W), 1 USB-A (5V/2A, 10W), 2 DC (12V/10A), 1 XT90 (12V/30A), and 1 cigarette lighter (12V/10A).

- **AC Outlets (x6):** 4000W (7000W Peak) 100-120V for household appliances.
- **USB-C Ports (x2):** Power Delivery 60W for fast charging compatible devices.
- **USB-A Ports (x3):** Quick Charge 3.0 (18W) for rapid charging.
- **USB-A Port (x1):** Standard 5V/2A (10W) output.

- **DC Outputs (x2):** 12V/10A for DC-powered devices.
- **XT90 Output (x1):** 12V/30A for high-power DC applications.
- **Cigarette Lighter Output (x1):** 12V/10A for car accessories.
- **Input Ports:** Dedicated ports for AC, Solar, and Car charging.
- **Digital Display:** Shows battery level, input/output wattage, and other status indicators.
- **Foldable Handle & Wheels:** For convenient portability.

4. SETUP

4.1 Initial Charging

Before first use, fully charge your GRECELL S5. This ensures optimal battery performance and calibration.

1. Connect the provided AC charging cable to the AC input port on the power station.
2. Plug the other end of the AC charging cable into a standard wall outlet.
3. The digital display will indicate charging status. The unit will fully charge in approximately 1.5 hours using AC input.

4.2 Placement

Place the power station on a stable, flat surface with adequate ventilation. Avoid placing it in direct sunlight or confined spaces during operation or charging.

5. OPERATING INSTRUCTIONS

5.1 Charging the Power Station

The GRECELL S5 offers multiple charging methods:

- **AC Wall Outlet:** Connect the AC charging cable to a wall outlet. Full charge in approximately 1.5 hours (1800W Max input).
- **Solar Panels:** Connect compatible solar panels (up to 2100W input) to the solar input port. Charging time varies based on sunlight intensity and panel wattage.
- **Car Charger:** Use the provided car charger cable to charge from your vehicle's 12V/24V cigarette lighter port. This method is slower and typically used for maintaining charge.

SUPER FAST RECHARGE IN 1.5 HOURS



Figure 4: The GRECELL S5 can be recharged rapidly via AC wall charger (approx. 1.5 hours) or solar panels (up to 2100W input).

5.2 Discharging (Powering Devices)

To power your devices:

1. Press the main power button to turn on the unit.
2. Activate the desired output group (AC, DC, USB) by pressing its respective button. The indicator light will illuminate.
3. Connect your device to the appropriate output port.

4. The digital display will show the output wattage.
5. When finished, turn off the output group and then the main power button.

ALL-ROUND SAFETY

Upgraded BMS features multi-protection



Figure 5: The GRECELL S5 is capable of powering a wide range of household appliances, including refrigerators, washing machines, and electric vehicles.

5.3 Expandable Capacity

The GRECELL S5's capacity can be expanded up to 10.08kWh by connecting an additional battery (sold separately). Refer to the additional battery's manual for connection instructions.

5.4 Emergency Power Supply (EPS) Function

The EPS function allows the power station to act as an uninterruptible power supply for connected devices during a power outage.

1. Connect the GRECELL S5 to a wall outlet via the AC input.
2. Connect your critical devices (e.g., computers, CPAP machines) to the AC output ports of the GRECELL S5.
3. In the event of a power failure, the unit will automatically switch to battery power within 20 milliseconds, providing continuous power to your connected devices.



Figure 6: The GRECELL S5's Emergency Power Supply (EPS) function provides seamless power backup for sensitive electronics

during outages.

6. MAINTENANCE

6.1 Battery Care

The GRECELL S5 uses a LiFePO4 battery, known for its longevity and safety. To maximize battery lifespan:

- Avoid fully discharging the battery frequently.
- Recharge the unit at least once every 3-6 months if not in regular use.
- Store the unit in a cool, dry place, away from direct sunlight and extreme temperatures.

6.2 Cleaning

Wipe the unit with a dry, soft cloth. Do not use abrasive cleaners or solvents.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Unit not turning on	Battery depleted; Main power button not pressed.	Charge the unit; Press and hold the main power button.
No output from ports	Output group not activated; Device not compatible; Overload protection triggered.	Press the respective output button; Check device specifications; Reduce connected load and restart.
Slow charging	Using car charger; Low solar input; Faulty cable.	Use AC charger for faster charging; Ensure optimal solar conditions; Check/replace charging cable.
Unit overheating	Poor ventilation; Excessive load.	Ensure clear airflow around the unit; Reduce connected load.

If problems persist, please contact GRECELL customer support.

8. SPECIFICATIONS

Brand	GRECELL
Model Name	S5
Wattage	5040 Watt-hours
Output Wattage	4000W (7000W Peak)
Voltage	110 Volts (AC)
Power Source	AC, Solar, DC, Battery Powered
Fuel Type	Solar

Battery Type	LiFePO4
Lifecycle	4000+ cycles (to 80% capacity)
Item Weight	112.4 pounds
Product Dimensions	25.26"L x 11.99"W x 17.23"H
Total Power Outlets	16
Special Features	Digital Display, Foldable Handle, Overload Protection, Portable, Short Circuit Protection, EPS Function
Included Components	1* Anderson Cable, 1*4000W Powerful Solar Generator, 1*AC Charger, 1*Car Charger Cable, 1*XT90 to Anderson Cable, User Manual

9. WARRANTY AND SUPPORT

The GRECELL S5 Portable Power Station comes with a **2-year warranty** from the date of purchase. This warranty covers manufacturing defects and workmanship under normal use.

For technical support, warranty claims, or further inquiries, please visit the official GRECELL store or contact their customer service department.

Official GRECELL Store: [GRECELL Store on Amazon](#)