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› GRECELL Portable Power Station 300W User Manual

GRECELL HW01

GRECELL Portable Power Station 300W User Manual

Model: HW01

1. PRODUCT OVERVIEW

The GRECELL Portable Power Station 300W is a versatile and reliable power source designed for various applications, including outdoor camping, RV trips, and home emergency backup. It features a durable LiFePO₄ battery, multiple output ports, and fast charging capabilities.

Key Features:

- 230Wh LiFePO₄ (LFP) Battery for extended lifespan.
- 300W (600W Peak) Pure Sine Wave AC Output.
- Multiple output ports: 2* AC, 1* PD 60W USB-C, 1* Fast Charge 3.0 USB-A, 1* USB-A, 1* DC Car Port, 1* DC Port.
- Four recharging modes: AC outlet, solar panel, 12V car socket, and Type-C + DC input.
- Upgraded Battery Management System (BMS) for enhanced safety.
- Built-in 3-level brightness LED flashlight with SOS mode.



Figure 1.1: Front view of the GRECELL Portable Power Station 300W, showcasing its display and various ports.

0-80% IN 70 MIN

7 Connectors 5 Outputs



Figure 1.2: Internal components and port layout, highlighting the 7 connectors and 5 outputs.

2. WHAT'S INCLUDED

Your GRECELL Portable Power Station 300W package includes all necessary accessories to get you started:

- Portable Power Station (PowerHouse 230Wh)
- DC adapter
- Car charging cable
- MC4-7909 Connector Cable
- User Manual
- Cable Storage Bag

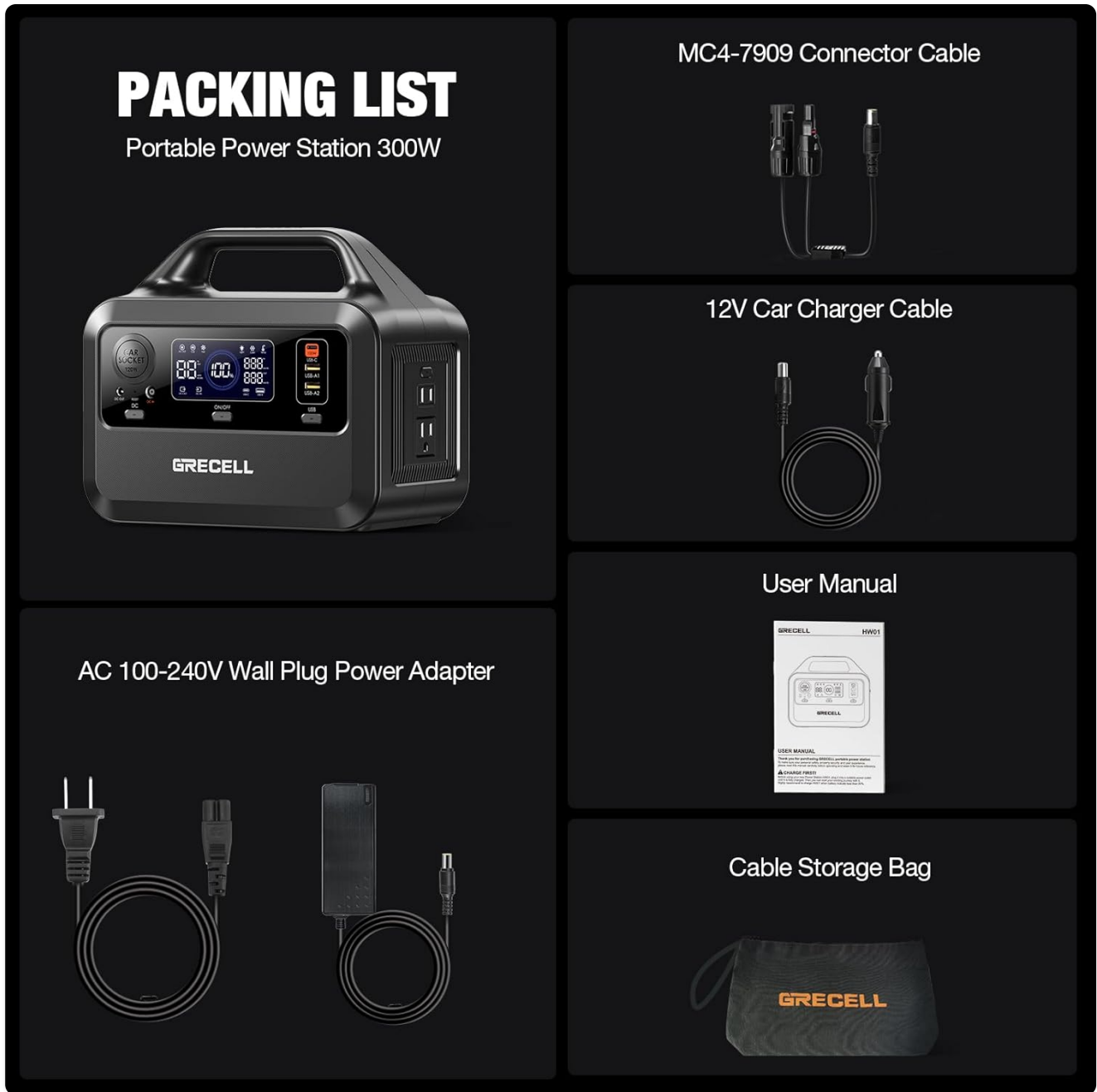


Figure 2.1: Visual representation of all items included in the GRECELL Portable Power Station 300W package.

Unboxing and Features Overview:

Video 2.1: An overview of the GRECELL Portable Power Station 300W, including unboxing and demonstration of its features and ports.

3. SETUP AND CHARGING

Before first use, it is recommended to fully charge the power station. The unit comes partially charged.

Powering On/Off:

To power on the unit, press and hold the 'ON/OFF' button on the front panel until the LCD screen illuminates. To power off, press and hold the same button until the screen turns off.

Charging Methods:

The GRECELL Portable Power Station 300W offers multiple convenient charging options:

- **AC Wall Outlet:** Use the provided DC adapter to charge the power station from a standard AC outlet. A full charge takes approximately 2.5-4.5 hours.
- **Solar Panel:** Connect a compatible 12V-24V, 2.5A solar panel (not included) to the DC input port for eco-friendly charging.
- **Car Charger:** Utilize the 12V car charging cable to power up the unit efficiently from your vehicle's cigarette lighter socket.
- **Type-C + DC Input:** For the fastest charging, combine a Type-C 100W input (cable not included) with the DC 100W input to fully charge the power station in just 1.5 hours.



Figure 3.1: Illustration of dual fast charging using Type-C and DC inputs.

High-Speed Charging

From PD Charger
60W about 4.5 hours
100W about 2.5 hours

100W Charging Adapter
(Not included)

100W



Figure 3.2: High-speed charging via a 100W charging adapter (not included).

Charging Demonstration:

Video 3.1: A demonstration of charging the GRECELL 300W Portable Power Station using its various input options, including USB-C PD 60W.

4. OPERATING THE POWER STATION

The GRECELL Portable Power Station 300W is designed to power a wide range of devices, from small electronics to mini-refrigerators.

Output Ports:

- **AC Outlets (2x):** Provide 300W (600W surge) pure sine wave power for laptops, fans, CPAP machines, and other household appliances (rated power less than 300W).

- **USB-C Port (1x):** PD 60W input/output for fast charging compatible smartphones, tablets, and MacBooks.
- **USB-A Ports (2x):** Includes one Fast Charge 3.0 port and one standard USB-A port for charging various USB-powered devices.
- **DC Car Port (1x):** 120W output for car-powered devices.
- **DC Port (1x):** Input/output supported for various DC-powered devices.

LED Flashlight:

The built-in LED flashlight offers three lighting modes (steady light, weak white light, strong white light) and an SOS mode. Press the LED flashlight switch to cycle through the brightness levels and activate SOS mode.



Figure 4.1: Demonstration of the 3 lighting modes available on the power station's LED flashlight.

Usage Scenarios:

This portable power station is ideal for various situations:

- **Outdoor Adventures:** Power your devices during camping, road trips, and other family outings.
- **Home Backup:** A reliable power source during unexpected power outages.
- **Work & Hobbies:** Power tools, drones, cameras, and other equipment on the go.

Family Camping



Road Trip



Power Outage Emergency



Figure 4.2: Examples of the power station being used for family camping, road trips, and power outage emergencies.

Practical Applications:

Video 4.1: A detailed look at the power station's capabilities, including running a water pump and other devices, demonstrating its high value.

Video 4.2: Further demonstration of the power station's practical uses, highlighting its reliability for various tasks.

5. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your GRECELL Portable Power Station 300W.

Battery Management System (BMS):

The upgraded BMS provides built-in overload, overcharge (automatically stops charging when the device is full), and short-circuit protection. Dual built-in silent cooling fans help to keep the station's temperature safe during operation.

Charging Environment:

Avoid placing the power station in direct sunlight, especially in high temperatures, as this can affect battery performance and longevity. Ensure adequate ventilation around the unit during charging and operation.



Figure 5.1: Overview of the 5 protection features provided by the Battery Management System (BMS).

6. TROUBLESHOOTING

If you encounter any issues with your GRECELL Portable Power Station 300W, please refer to the following common troubleshooting tips:

- **Unit Not Powering On:** Ensure the battery is charged. If the unit has been stored for a long time, it might require a full charge.
- **Devices Not Charging:** Check if the output port is activated. Ensure the device's power consumption does not exceed the power station's rated output (300W).
- **Overheating:** The unit has built-in cooling fans. Ensure the air intake vents are not blocked. If overheating persists, disconnect devices and allow the unit to cool down.

For more detailed troubleshooting steps or persistent issues, please consult the official user manual PDF or contact customer support.

Emergency Lighting Demonstration:

Video 6.1: A demonstration of using the power station's built-in light during a power outage, highlighting its utility in emergencies.

7. SPECIFICATIONS

Attribute	Value
Brand	GRECELL
Model Name	HW01

Attribute	Value
Wattage	300 watts
Output Wattage (Peak)	600 watts
Voltage	110 Volts
Fuel Type	Solar
Power Source	Solar Powered
Item Weight	10.19 pounds
Product Dimensions	6.02"L x 8.36"W x 9.6"H
Total Power Outlets	2 (AC)
Frequency	60 Hz

8. WARRANTY AND SUPPORT

The GRECELL Portable Power Station 300W comes with a **2-year warranty** from the date of purchase, covering defects in materials and workmanship.

For any questions, technical assistance, or warranty claims, please contact GRECELL-US customer support. You can also refer to the comprehensive [User Manual \(PDF\)](#) for detailed information.