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> PowerUrus 89.6Wh Portable Power Station R100 Lite User Manual

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INTRODUCTION

Thank you for purchasing the PowerUrus 89.6Wh Portable Power Station R100 Lite. This manual provides essential information for the safe and efficient operation of your device. Please read it thoroughly before use and retain it for future reference.

PRODUCT OVERVIEW

The PowerUrus R100 Lite is a compact and lightweight portable power station designed for versatility. It features a durable LiFePO4 battery, ensuring safety and a long lifespan. With multiple output ports, it can power a wide range of electronic devices.

Key Features:

- **Compact and Lightweight:** Weighing approximately 1.15 kg, it is easy to carry.
- **LiFePO4 Battery:** Offers enhanced safety and a cycle life of approximately 3,000 charges.
- **Multiple Output Ports:** Includes AC (100W), DC (100W), USB-A (x2), and USB-C (x2) for a total of 7 output ports.
- **3-Way Charging:** Supports USB-C PD65W, car charging, and solar panel charging.
- **Pass-Through Charging:** Allows simultaneous charging of the power station and connected devices.
- **High-Brightness LED Light:** Features multiple lighting modes including 100%, 50%, Strobe, and SOS.
- **Airline Carry-on Compliant:** 89.6Wh capacity meets airline regulations for carry-on luggage.

Product Components:



Figure 1: PowerUs R100 Lite Portable Power Station connected to various devices.



Figure 2: Physical dimensions and weight of the PowerUsus R100 Lite.

Package Contents:

- 1 x PowerUsus 89.6Wh Portable Power Station
- 1 x DC5521 Power Cable (Male to Male)
- 1 x 100W Type-C Power Cable
- 1 x 12V DC5521 to Cigarette Lighter Socket Power Cable
- 1 x 3-in-1 USB Power Cable
- 1 x Japanese Instruction Manual



Figure 3: Included accessories and cables.

SETUP

Initial Charging:

Before first use, fully charge the power station. This ensures optimal battery performance and calibration. Use one of the recommended charging methods described in the 'Operating Instructions' section.

Connecting Devices:

Identify the appropriate output port (AC, DC, USB-A, USB-C) for your device. Connect your device's charging cable to the power station. Press the corresponding output button (AC, DC, or USB) to activate the port. The LED display will show the output status.

OPERATING INSTRUCTIONS

Charging the Power Station:

The PowerUsus R100 Lite supports three charging methods:

1. **USB-C PD 65W Fast Charging:** Connect a USB-C PD 65W adapter (not included) to the USB-C input port. Approximate charging time: 1.5 hours.
2. **Car Charging:** Use the provided 12V DC5521 to cigarette lighter socket cable to charge from your vehicle's cigarette lighter port. Approximate charging time: 2.4 hours (Max. 40W).
3. **Solar Panel Charging:** Connect a compatible solar panel (sold separately) to the DC input port. Approximate charging time: 2.4 hours (Max. 40W), depending on sunlight intensity.



Figure 4: Three methods for charging the power station.

Discharging (Using the Power Station):

To power your devices, connect them to the appropriate output port and press the corresponding output button. The LED display will show the remaining battery percentage and output status.

- **AC Output:** For devices requiring 100V AC power (up to 100W continuous, 200W peak).
- **DC Output:** For 12V DC devices (up to 60W).
- **USB-A Output:** For standard USB devices (up to 18W).
- **USB-C Output:** One port supports up to 100W (PD), another up to 30W (PD).

Pass-Through Charging: The power station supports charging itself while simultaneously powering other devices. This allows continuous use without interruption.



Figure 5: Powering multiple devices using the pass-through function.

LED Light Function:

The integrated LED light offers multiple modes for various situations:

- **100% Brightness:** For maximum illumination.
- **50% Brightness:** For reduced illumination and extended battery life.
- **Strobe Mode:** For signaling or attracting attention.

- **SOS Mode:** Emits the international distress signal.

To activate the LED light, press the dedicated LED button. Press repeatedly to cycle through the modes.



Figure 6: LED light modes for various uses.

MAINTENANCE

Storage:

Store the power station in a cool, dry place away from direct sunlight and extreme temperatures. For long-term storage, it is recommended to charge the unit to approximately 50-80% every 3-6 months to preserve battery health.

Cleaning:

Wipe the exterior with a soft, dry cloth. Do not use abrasive cleaners or immerse the unit in water.

Battery Care:

The LiFePO₄ battery is designed for longevity. Avoid fully discharging the battery frequently, as this can reduce its overall lifespan. The integrated Battery Management System (BMS) protects against overcharging, over-discharging, short circuits, and overheating.



Figure 7: LiFePO₄ battery and safety protection features.

- **Device not charging:**

- Ensure the power station is sufficiently charged.
- Verify that the correct output port is selected and activated (AC, DC, USB button pressed).
- Check if the device's power consumption exceeds the port's maximum output or the power station's total output.
- Try a different cable or port.

- **Power station not charging:**

- Ensure the charging cable and adapter are properly connected and functional.
- Verify the power source (wall outlet, car port, solar panel) is active.
- Check for any error indicators on the LED display.

- **LED display not working:**

- Press any button to wake the display.
- If the unit is completely unresponsive, try charging it.

- **Overload Protection Activated:**

- If an overload occurs, the power station may automatically shut down the affected output port. Disconnect the overloaded device, wait a few moments, and then reactivate the port.

SPECIFICATIONS

Feature	Specification
Model	R100 Lite
Battery Type	LiFePO4
Capacity	89.6Wh (28,000mAh, 3.2V)
USB-C Input	4.7-20.5V, 3.25A, Max. 65W
Solar Panel Input	5.5*2.1mm & 11-26V DC Max. 3A (Max. 40W)
AC Output	120V-60Hz 100W (Peak 200W)
USB-A Output (x2)	5V/3A; 9V/2A; 12V/1.5A Max. 18W
USB-C Output (PD 100W)	5V/3A; 9V/3A; 12V/3A; 15V/3A; 20V/5A Max. 100W
USB-C Output (PD 30W)	5V/3A; 9V/3A; 12V/2.5A Max. 30W
DC Port Output	5.5*2.1mm & 12V = 5A Max. 60W
LED Light Type	Dimmable LED Light 2W
Dimensions (L x W x H)	16.5 x 8.5 x 10 cm (6.5 x 3.35 x 3.94 inches)
Weight	Approx. 1.15 kg

Operating Temperature	-10 to 45°C
Features	LED display, Short Circuit Protection, Automatic Shut-off, Lightweight, Fast Charging
Compatible Devices	CPAP, Game Consoles, Smartwatches, Smartphones, Small Refrigerators

WARRANTY AND SUPPORT

Warranty Information:

This PowerUrus product comes with a **2-year manufacturer's warranty** from the date of purchase. The warranty covers defects in materials and workmanship under normal use. It does not cover damage caused by misuse, accidents, unauthorized modifications, or natural disasters.

Please retain your proof of purchase for warranty claims.

Customer Support:

For technical assistance, warranty claims, or any questions regarding your PowerUrus Portable Power Station, please contact our customer support team. Refer to the contact information provided in your product packaging or on the official PowerUrus website.