

powkey R180

Powkey 200W Portable Power Station User Manual

Model: R180

1. INTRODUCTION

This user manual provides essential information for the safe and efficient operation of your Powkey 200W Portable Power Station. Please read this manual thoroughly before using the device and retain it for future reference. This power station is designed to provide reliable power for various electronic devices during outdoor activities, emergencies, or as a backup power source at home.

2. PRODUCT OVERVIEW

2.1 Key Features

- **High Capacity:** 120Wh / 33,000mAh lithium-ion battery.
- **Multiple Outputs:** Equipped with 1 AC outlet (110V, 200W), 2 USB-A ports (5V, 3.1A total), 1 USB-C port, and 2 DC outputs (9-12.6V/10A).
- **Versatile Recharging:** Can be recharged via wall socket, car adapter, or compatible solar panel (sold separately).
- **Emergency LED Light:** Built-in dual white LED flashlight with steady, blink, and SOS modes.
- **Compact & Portable:** Weighs only 3.2 lbs with a comfortable carrying handle.
- **Safety Protection System:** Includes over-temperature, short circuit, overcharge, over-discharge, overload, and overvoltage protection.
- **LCD Display:** Provides real-time information on battery level, input/output wattage, and active ports.

2.2 What's Included

- 1 x Powkey 200W/120Wh Portable Power Station
- 1 x AC Power Adapter (15V/2A MAX)
- 1 x Car Cigarette Lighter Adapter
- 1 x Car Charging Cable
- 1 x User Manual (this document)



Figure 2.2.1: The Powkey Portable Power Station shown with its included accessories: AC power adapter, car cigarette lighter adapter, car charging cable, and user manual.

3. SAFETY INSTRUCTIONS

To ensure safe operation, please observe the following precautions:

- Do not disassemble, repair, or modify the unit.
- Keep the power station away from fire, heat sources, and direct sunlight.
- Do not use or store the unit in a bathroom or in areas exposed to rain or moisture.
- Do not use the unit if it has been damaged or modified.
- Keep out of reach of children and pets.
- Ensure the total wattage of connected devices does not exceed 200W. Overloading will trigger protection and shut down AC output.
- Do not use the unit with devices that require more than 200W, such as electrical tools, heaters, or microwaves.
- Use only the provided or approved charging cables and adapters.

- Store the unit in a cool, dry place when not in use.



Figure 3.1: Illustration of devices not recommended for use with the 200W power station, including electrical tools, heaters, and microwaves, as they typically exceed the 200W limit.

4. SETUP

4.1 Initial Charge

Before first use, fully charge the power station. This ensures optimal battery performance and longevity. Use the included AC power adapter to charge the unit from a wall outlet. The LCD display will show the charging progress.



Figure 4.1.1: The main unit of the Powkey Portable Power Station, highlighting its front panel with the LCD screen, AC outlet, USB ports, DC outputs, and input port.

5. OPERATING INSTRUCTIONS

5.1 Turning On/Off

Press and hold the main power button (usually located near the display) for a few seconds to turn the unit on or off. The LCD display will illuminate when the unit is active.

5.2 Using AC Output

To use the AC outlet, press the AC power button. The AC icon on the LCD display will light up. Plug your device into the AC outlet. Ensure your device's power consumption is within the 200W limit. Press the AC power button again to turn off the AC output when not in use.

5.3 Using USB and DC Outputs

The USB and DC outputs are typically active once the main unit is powered on. Simply plug your USB or DC-compatible devices into the respective ports. The LCD display will show the power consumption for these outputs.

MULTIPLE OUTPUTS FOR DIFFERENT DEVICES

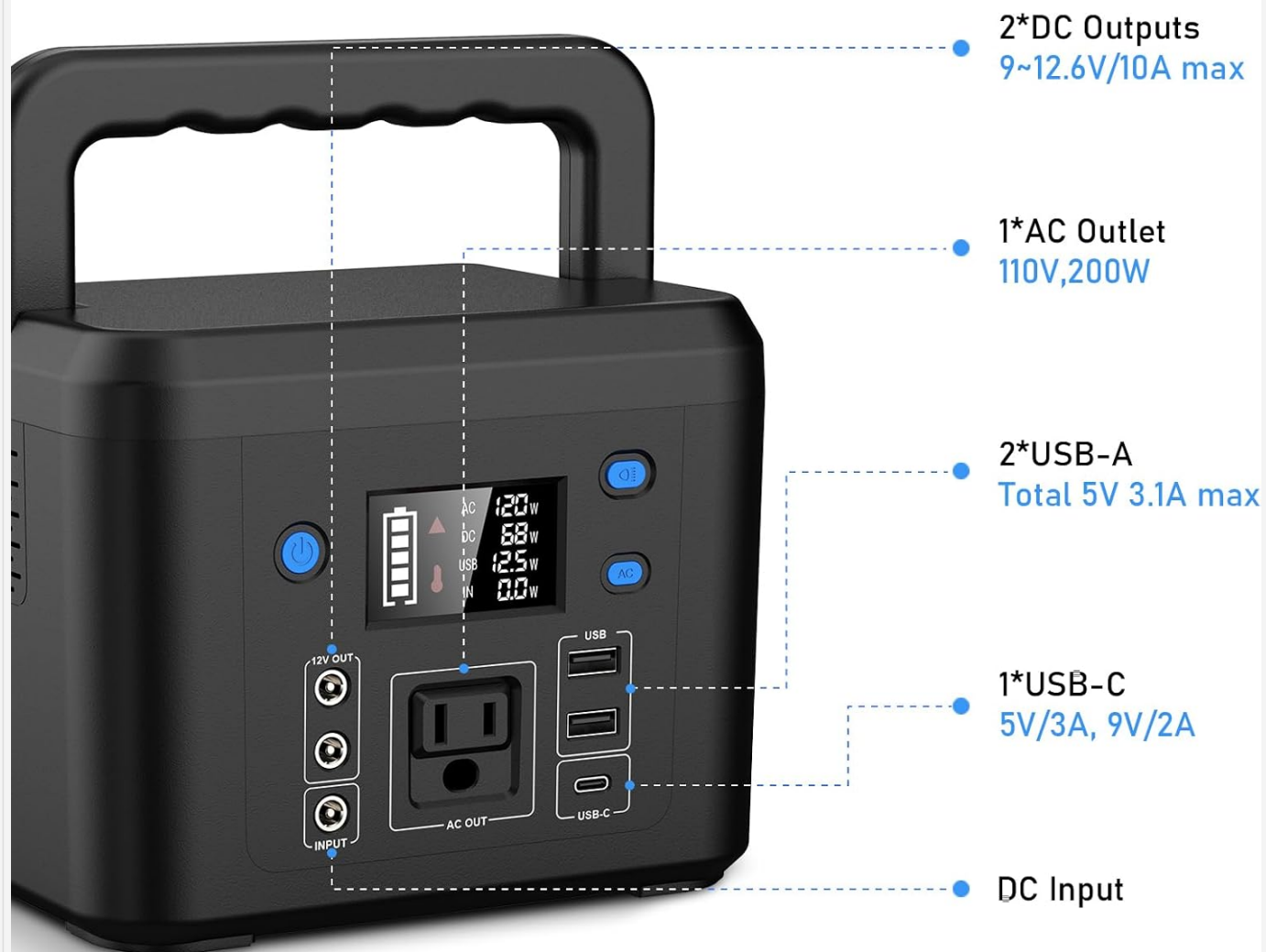


Figure 5.3.1: A detailed view of the power station's output ports, including 2 DC outputs, 1 AC outlet, 2 USB-A ports, and 1 USB-C port, with their specifications.

120WH POWER CAPACITY



iPhone
10+ times



20W Lamp
5+ hrs



Drone
3+ Recharge



Laptop 13"
3+ Hrs



50W Fan
2 Hrs



Mini Cooler
2 Hrs



Figure 5.3.2: The power station in use, demonstrating its capacity to charge an iPhone multiple times, power a laptop for several hours, and recharge a drone.

6. CHARGING METHODS

Your Powkey Portable Power Station offers three convenient ways to recharge:

6.1 Wall Outlet Charging

Connect the included AC power adapter to the DC input port on the power station and plug the adapter into a standard wall outlet. Charging time is approximately 4-5 hours.

6.2 Car Charging

Use the included car charging cable to connect the power station to your vehicle's 12V cigarette lighter socket. Charging time is approximately 4-5 hours.

6.3 Solar Panel Charging (Solar Panel Not Included)

The power station can be recharged using a compatible solar panel (15V-24V/2.6A). Connect the solar panel to the DC input port. Charging time varies depending on sunlight intensity and solar panel wattage (e.g., 5-8 hours with a 40W solar panel in full sun).



Figure 6.3.1: Visual representation of the three charging options: solar panel (not included), wall outlet, and car charging, with estimated charging times.

7. LED FLASHLIGHT OPERATION

The power station features a built-in LED flashlight with multiple modes:

- Press the flashlight button once to turn on the **steady light** mode.
- Press the button again to switch to **blink** mode.
- Press the button a third time to activate **SOS** mode.
- Press the button a fourth time to turn the flashlight off.



Figure 7.1: The power station's integrated LED flashlight demonstrating its three operational modes: steady illumination, strobe, and SOS signal, useful for emergencies or camping.

8. MAINTENANCE

- **Cleaning:** Use a dry, soft cloth to wipe the surface of the unit. Do not use abrasive cleaners or solvents.
- **Storage:** If storing for an extended period, charge the unit to approximately 50-80% every 3-6 months to maintain battery health. Store in a cool, dry environment, away from direct sunlight and extreme temperatures.
- **Battery Life:** The lithium-ion battery has a limited number of charge cycles. Over time, the capacity may decrease.

9. TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Unit does not turn on.	Battery is depleted.	Charge the power station using the AC adapter.
AC output shuts down.	Overload or short-circuit protection activated.	Remove the device causing the overload/short-circuit. The power station will return to normal in a few seconds. Press the AC output button again to reactivate. Ensure connected devices are under 200W.
Device not charging from USB/DC.	Power station not turned on; device incompatible; cable faulty.	Ensure the power station is on. Check device compatibility and try a different cable.
Slow charging.	Using a low-power charging source (e.g., weak solar input); multiple devices charging simultaneously.	Ensure strong solar input if using solar. Use the recommended AC adapter for fastest charging.

10. SPECIFICATIONS

Feature	Detail
Model Name	R180
Battery Capacity	120Wh / 33,000mAh
AC Output	110V, 200W (Rated)
USB-A Output	2 x 5V, 3.1A (Total)
USB-C Output	1 x 5V/3A, 9V/2A
DC Output	2 x 9-12.6V/10A
DC Input (Charging)	15V/2A MAX (Solar: 15V-24V/2.6A)
Weight	3.2 lbs (1.45 kg)
Dimensions (L x W x H)	7" x 5" x 5" (17.8cm x 12.7cm x 12.7cm)
Operating Temperature	0°C to 40°C (32°F to 104°F)



Figure 10.1: The physical dimensions of the power station, illustrating its compact size for portability.

11. WARRANTY AND SUPPORT

Powkey provides a **24-month product guarantee** from the date of purchase. This warranty covers manufacturing defects and workmanship under normal use.

For any questions, technical assistance, or warranty claims, please contact our customer service team. We offer **7*24 hours customer service** to assist you.

Contact Information: Please refer to the contact details provided on the product packaging or our official website for the most up-to-date support information.

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question