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› [powkey](#) /

› Powkey 200W Portable Power Station R180 User Manual

powkey R180

Powkey 200W Portable Power Station R180 User Manual

Model: R180

INTRODUCTION

Thank you for choosing the Powkey 200W Portable Power Station R180. This device is a compact and powerful 192Wh LiFePO4 solar generator designed for various applications, including camping, outdoor activities, and emergency backup power. This manual provides essential information for safe operation, setup, maintenance, and troubleshooting to ensure optimal performance and longevity of your power station.



Image: The Powkey 200W Portable Power Station R180, a compact black unit with a foldable handle and multiple output ports.

Safety Instructions

Please read and understand all safety instructions before operating this product. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Do not disassemble, repair, or modify the unit.
- Do not expose the unit to fire or extreme temperatures.
- Do not use or store the unit in high humidity environments or near water.
- Keep the unit away from children and pets.
- Ensure proper ventilation during use and charging.
- Do not block the ventilation openings.

- Use only approved accessories and charging cables.
- If the unit emits smoke, odor, or unusual noise, discontinue use immediately and contact customer support.
- Dispose of the unit according to local regulations.

PACKAGE CONTENTS

Verify that all items are included in your package:

- 1 x Powkey 192Wh Portable Power Station (Model R180)
- 1 x AC Power Adapter (15V/3A)
- 1 x Car Charging Cable
- 1 x Car Cigarette Lighter Adapter
- 1 x User Manual

Your browser does not support the video tag.

Video: An unboxing and overview of the Powkey 200W Portable Power Station, demonstrating the included accessories such as the car charging cable and AC adapter.

PRODUCT OVERVIEW

The Powkey R180 Portable Power Station is designed for versatility and ease of use. It features a compact design with a foldable handle for portability, weighing approximately 4.7 pounds.

Key Features:

- **Compact and Portable:** Measures 7.1 × 5.3 × 5.5 inches, with a foldable handle.
- **High Capacity:** 192Wh / 60,000mAh LiFePO4 battery.
- **Multiple Output Ports:** 1x AC outlet (120V 200W max), 2x USB ports (5V, 3.1A total), 1x USB-C port (5V 3A, 9V 2A), 2x DC Outputs (12V 10A).
- **Advanced Protection System:** Features a Battery Management System (BMS) with protection against short circuits, overcharging, overloading, over-voltage, over-current, and over-temperature.
- **LED Emergency Flashlight:** Dual-white-light LED with three brightness levels and three modes (Steady Light, Strobe, SOS).
- **Digital Display:** Provides real-time information on battery level and output status.

EQUIPPED WITH 6 OUTPUT PORTS

3 WAYS TO RECHARGER



Image: A detailed view of the Powkey R180's front panel, highlighting the various output ports including AC, USB, USB-C, and DC, along with indicators for charging methods.

LiFePO4 BATTERY

Advanced Battery Management System



Image: An exploded view of the Powkey R180, showing the internal LiFePO4 battery cells and the Advanced Battery Management System (BMS) with various protection features.

SETUP

Before first use, ensure the power station is fully charged.

1. **Unpack:** Carefully remove the power station and all accessories from the packaging.
2. **Inspect:** Check the unit and accessories for any signs of damage. If damaged, do not use and contact customer support.
3. **Initial Charge:** Connect the power station to a wall outlet using the provided AC power adapter. Allow the unit to charge completely until the battery indicator shows 100%.

CHARGING METHODS

The Powkey R180 offers three convenient ways to recharge:

1. AC Wall Outlet Charging:

Connect the AC power adapter to the power station's input port and then plug it into a standard wall outlet. A full charge typically takes 4-5 hours.



Image: The Powkey R180 power station connected to a wall outlet for charging using the AC adapter.

2. Solar Panel Charging (Solar Panel Not Included):

Connect a compatible solar panel (e.g., 40W) to the power station's input port. Place the solar panel in direct sunlight for optimal charging. Charging time varies based on solar intensity; typically 5-6 hours in full sun.



Image: The Powkey R180 power station connected to a solar panel for charging outdoors.

3. Car Charging:

Use the provided car charging cable to connect the power station to your vehicle's 12V cigarette lighter socket. A full charge typically takes 7-8 hours.



Image: The Powkey R180 power station being charged inside a car using the 12V car charging cable.

OPERATING INSTRUCTIONS

Powering On/Off:

- To turn on the unit, press and hold the main power button for 3 seconds. The digital display will illuminate.
- To turn off the unit, press and hold the main power button for 3 seconds. The display will turn off.

Using Output Ports:

- **AC Output:** Press the "AC" button to activate the AC outlet. Plug your device into the 120V AC outlet. Ensure your device's power rating is 200W or less. Press the "AC" button again to turn off.
- **USB/USB-C Output:** These ports are typically active when the unit is powered on. Simply plug your USB or USB-C compatible device into the respective port.
- **DC Output:** Press the "DC" button to activate the 12V DC outputs. Plug your 12V DC device into the ports. Press the "DC" button again to turn off.

Note: The working time of the power station can be estimated by the formula: $192\text{Wh} * 0.85 / (\text{power of your device})$.

192Wh PORTABLE POWER STATION



Working time= $192\text{Wh} \times 0.85$ / the power of your device



5W Light
25+Hrs



Laptop
2+Recharges



Drone
2+Recharges



Phone
10+Recharges



Mini Fridge
3+Hrs



Image: The Powkey R180 power station actively charging multiple devices, demonstrating its versatility for different power needs.

LED EMERGENCY FLASHLIGHT

The R180 features a built-in dual-white-light LED flashlight for general lighting or emergency use.

- **Activate:** Press the dedicated LED flashlight button once to turn on the light at its lowest brightness.
- **Cycle Brightness/Modes:** Press the button repeatedly to cycle through brightness levels (low, medium, high) and lighting modes (Steady Light, Strobe, SOS).
- **Deactivate:** Continue pressing the button until the light turns off, or press and hold the button for 3 seconds.

LIGHT FOR EMERGENCY

3 Modes: Steady Light, Strobe, SOS



Image: The Powkey R180 power station with its LED flashlight illuminated, providing light in a dark outdoor setting.

MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your power station.

- **Storage:** If not in use for an extended period, recharge the stored battery every 2-3 months and maintain it at 40%-70% capacity.
- **Cleaning:** Use a dry, soft cloth to clean the exterior of the unit. Do not use abrasive cleaners or solvents.
- **Temperature:** Store the unit in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Ventilation:** Ensure the ventilation openings are clear of dust and debris.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Unit does not turn on.	Battery is depleted.	Charge the power station using the AC adapter.
AC outlet not working.	AC output not activated or device exceeds 200W.	Press the "AC" button to activate. Check device wattage.
USB/DC ports not charging.	Unit not powered on or DC output not activated.	Ensure the unit is on. Press the "DC" button for DC ports.
Slow charging.	Using a low-power charging source (e.g., weak solar input) or high ambient temperature.	Ensure strong solar input or use AC adapter. Charge in a cooler environment.
Overload warning on display.	Connected device exceeds the power station's output limit.	Disconnect the device. Reduce the load. Restart the power station.

SPECIFICATIONS

Brand	powkey
Model Name	R180
Battery Type	LiFePO4
Capacity	192Wh / 60,000mAh
AC Output	120V, 200W (Max)
USB Ports	2x 5V, 3.1A (Total)
USB-C Port	1x 5V 3A, 9V 2A
DC Outputs	2x 12V 10A
Charging Input	15V/3A (AC Adapter), 12V (Car Charger), Solar Panel (Not Included)
Dimensions (L x W x H)	7.1" x 5.3" x 5.5" (approx. 7"L x 5"W x 5"H)
Weight	4.7 pounds
Special Features	Digital Display, Foldable Handle, LED Light, Overload Protection, Short Circuit Protection

EASY TO CARRY

Lightweight | 4.7 lbs



Image: A person carrying the Powkey R180, illustrating its compact size and lightweight design, with dimensions indicated.

WARRANTY

The Powkey 200W Portable Power Station R180 comes with a one-year warranty from the date of purchase. This warranty covers manufacturing defects and workmanship. It does not cover damage caused by misuse, accidents, unauthorized modifications, or normal wear and tear.

Please retain your proof of purchase for warranty claims.

CUSTOMER SUPPORT

For any questions, technical assistance, or warranty claims, please contact Powkey customer service. We provide 7x24 hours customer service.

Refer to the contact information provided in your product packaging or visit the official Powkey website for support details.

Website: [Powkey Official Store on Amazon](#)

ASK A QUESTION ABOUT THIS MANUAL

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.

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Email

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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

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