

[Manuals.plus](#) /

› [powkey](#) /

› Powkey Solar Generator with Panel, 200W Portable Power Station with Solar Panel 40W, 110V Pure Sine Wave DC/USB/AC Outlet
Electric Generator Battery Backup for Outdoor Camping Emergency Home 200W Generator+40W Solar Panel Kit User Manual

powkey HP200

Powkey Solar Generator with Panel HP200 User Manual

Model: HP200

1. INTRODUCTION

Thank you for choosing the Powkey Solar Generator with Panel, Model HP200. This portable power station combined with a high-efficiency solar panel provides a reliable and versatile power solution for various applications, including outdoor camping, emergency backup, and home use. This manual will guide you through the setup, operation, maintenance, and troubleshooting of your device to ensure optimal performance and longevity.

What's Included:

- HP200 Portable Power Station (200W)
- 40W Foldable Solar Panel
- AC Wall Charger
- Car Charger Cable
- DC to DC Cable
- 10-in-1 Connect Cable
- User Manual



Image 1.1: The Powkey HP200 Portable Power Station and its accompanying 40W Foldable Solar Panel.

2. SAFETY INSTRUCTIONS

Please read all safety instructions carefully before using the product. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Do not disassemble, repair, or modify the unit. Incorrect reassembly may cause fire or injury.
- Do not place the unit near fire or expose it to heat. Keep out of direct sunlight.
- Do not charge, use, or store the unit in a bathroom or an area exposed to water or moisture.
- Use only the provided or approved accessories.
- Do not use the unit if it is damaged or has been dropped.
- Keep out of reach of children and pets.
- Ensure proper ventilation during use and charging. Do not cover the unit.
- This power station is not designed to support high-power heating products such as juicers, microwave ovens, blenders, water heaters, coffee machines, or bread machines. Exceeding the rated output may cause damage or fire.



Image 2.1: Appliances such as juicers, microwave ovens, blenders, water heaters, coffee machines, and bread machines are not supported.

3. PRODUCT FEATURES

3.1. Portable Power Station (HP200)

The HP200 is a compact and lightweight portable power station with a 146Wh/39600mAh capacity, designed to power a variety of electronic devices. It features multiple output ports for versatile charging.

- **Capacity:** 146Wh / 39600mAh
- **Output Ports:**
 - 2 x 110V Pure Sine Wave AC Outlets (MAX 200W)
 - 4 x USB Outlets (MAX 5V/3.1A)
 - 1 x DC Outlet (MAX 12V/8A)
- **Dimensions:** 7.87 x 1.81 x 5.71 inches
- **Weight:** 3.0 lbs (net weight)
- **Safety:** Equipped with an upgraded BMS (Battery Management System) for over-load, over-current, over-voltage, short-circuit, and auto power-off protection.

7 VERSATILE OUTPUT PORTS

2 AC/ 4 USB/ 1 DC Outlets



2*AC Outlets
(200W Max)

4*USB Outlets
(5V/3.1A Max)

1*DC Outlet
(12V)

1*Input
(15V)

Image 3.1: The HP200 power station highlighting its compact dimensions and various output ports.



Image 3.2: Illustrates the HP200's capacity to charge multiple devices, including phones, cameras, iPads, laptops, mini-fridges, and drones.

3.2. 40W Foldable Solar Panel

The included 40W solar panel offers efficient and portable solar charging for your power station and other compatible devices.

- **Efficiency:** 20.5% high conversion efficiency from monocrystalline solar cells.
- **Design:** Foldable 4-layer design for easy portability and storage.
- **Durability:** Made from durable nylon with IPX4 waterproof rating (note: outlet connector box is NOT waterproof).
- **Output Ports:**
 - 1 x DC Outlet 12V/8A (max)
 - 1 x USB-A 5V/3A, 9V/2A, 12V/1.5A
 - 1 x Type-C 5V/3A, 9V/2A, 12V/1.5A

- **Compatibility:** Includes 10 DC connectors for wide compatibility with most portable solar generators.



Image 3.3: The foldable solar panel in use during a camping trip, demonstrating its portability and ease of setup.



Image 3.4: A close-up view of the solar panel surface, illustrating its waterproof design.

4. SETUP

4.1. Initial Charging of the Power Station

Before first use, it is recommended to fully charge the HP200 power station.

1. **Using Wall Outlet:** Connect the provided AC wall charger to the 15V INPUT port on the power station and plug it into a standard wall outlet. The LED indicators will show charging progress. A full charge typically takes 5-6 hours.
2. **Using Car Charger:** Connect the car charger cable to the 15V INPUT port and plug it into your vehicle's 12V cigarette lighter socket. Charging time is similar to wall charging.

4.2. Connecting the Solar Panel

To charge the power station using the solar panel:

1. Unfold the 40W solar panel and place it in direct sunlight, facing the sun for maximum efficiency.
2. Connect the DC output cable from the solar panel to the 15V INPUT SOLAR INPUT port on the HP200 power station.
3. The LED indicators on the power station will illuminate to show that it is receiving a charge. Charging time with the solar panel is approximately 6-9 hours in full sun.



Image 4.1: The three flexible charging methods for the Powkey power station: wall outlet, 40W solar panel, and car charging.

5. OPERATING INSTRUCTIONS

5.1. Powering On/Off

Press and hold the power button (**red circle icon**) for a few seconds to turn the unit on or off. The LED indicators will light up to show the battery level.

5.2. Using AC Outlets

To use the 110V AC outlets:

1. Ensure the power station is on.
2. Press the AC button (**green AC icon**) to activate the AC output. The AC indicator light will turn on.
3. Plug your device into one of the AC outlets. Ensure your device's power consumption does not exceed 200W.

- When finished, press the AC button again to turn off the AC output and conserve battery.



Image 5.1: The power station providing Pure Sine Wave AC output to charge a smartphone.

5.3. Using USB and DC Outlets

The USB and DC outlets are typically active when the power station is turned on.

- Plug your USB-powered devices (phones, tablets, etc.) into the USB ports.
- Plug your 12V DC devices into the DC output port.

5.4. LED Indicators

The power station features LED lights to indicate the battery charge level:

- 25%
- 50%
- 75%
- 100%

These indicators help you monitor the power usage and recharging percentage.

6. MAINTENANCE

6.1. Cleaning

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

6.2. Storage

If storing the unit for an extended period, charge it to 50-80% every 3 months to maintain battery health. Store in a cool, dry place away from direct sunlight and extreme temperatures.

6.3. Battery Care

To prolong battery life, avoid fully discharging the unit frequently. Recharge the unit promptly when the battery level is low.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
---------	----------------	----------

Problem	Possible Cause	Solution
Unit does not turn on.	Battery is completely discharged.	Charge the unit using the AC wall charger.
No AC output.	AC output not activated. Overload protection triggered.	Press the AC button. Reduce the load on the AC outlets. Ensure total wattage is below 200W.
Solar panel not charging the unit.	Insufficient sunlight. Panel not connected correctly. Panel or cable damaged.	Ensure panel is in direct sunlight and angled correctly. Check all connections. Inspect panel and cable for damage.
Unit shuts down unexpectedly.	Overload protection. Overheating. Low battery.	Reduce connected load. Ensure proper ventilation. Recharge the unit.

8. SPECIFICATIONS

Feature	Detail
Brand	powkey
Model Name	HP200
Power Source	Solar Powered
Wattage (Max)	200 watts
Voltage	110 Volts
Item Weight	3 Pounds
Product Dimensions	10"L x 4.98"W x 5"H
Total Power Outlets	7 (2 AC, 4 USB, 1 DC)
Runtime (approx.)	44 minutes (at max load)
Charging Time (Wall Outlet)	5-6 hours
Charging Time (40W Solar Panel)	6-9 hours (in full sun)
Special Feature	Dual Fuel (AC/Solar), Pure Sine Wave AC Output
UPC	764046731617

9. WARRANTY & SUPPORT

All Powkey products are covered by a **12-month warranty** from the date of purchase. If you encounter any issues or have questions regarding your Powkey Solar Generator with Panel, please do not hesitate to contact our Customer Service team. We are committed to providing high-quality products and reliable support.

For assistance, please refer to the contact information provided with your purchase or visit the official Powkey website.

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.

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