



rebelcell

Powerhive 800 Portable power station



USER MANUAL

2

For safe operation please review the user manual completely before use and retain for future reference.



Powering
the outdoors



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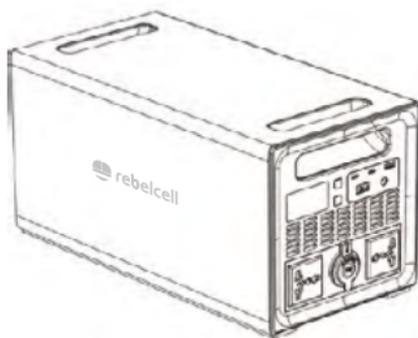




Congratulations on the purchase of the **Powerhive 800**, the ultimate portable power station. It is equipped with a **high-capacity (768Wh) lithium / LiFePO4 battery** with **integrated pure sinus inverter** that delivers **1000W continuous / 1500W surge power**. It offers advanced features, sleek design, and delivers clean, reliable power for all your devices.

Your package includes:

- Powerhive 800
- AC charge cable
- 200W DC-adapter



Powerhive 800

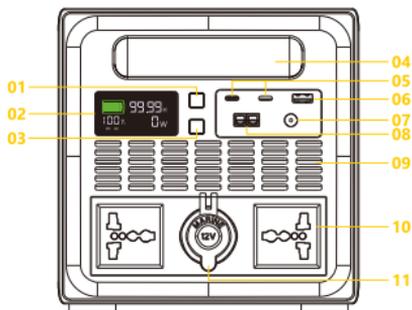


AC charge cable

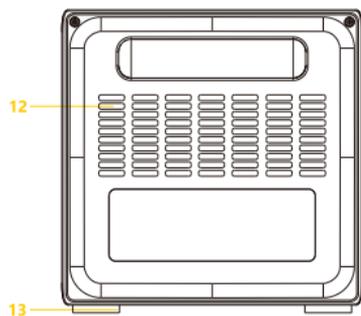


200W DC-adapter

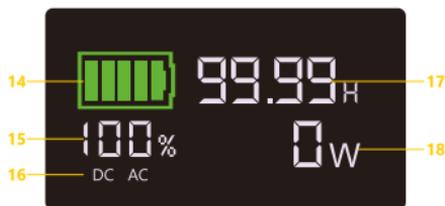
1. PRODUCT OVERVIEW



1. DC Switch
2. LCD Screen
3. AC Switch
4. Handle
5. TYPE-C OUTPUT
6. USB-A OUTPUT
7. DC7909 INPUT
8. ANDERSON PA-45 INPUT
9. Ventilation Hole
10. AC OUTPUT
11. 12V DC Cigarette Lighter Output



12. Cooling Fan
13. Floor Mat



14. Charging Status
15. Charging Status
16. AC/DC ON
17. Remaining Time to use
18. Output Power

2. THE POWERHIVE 800 BENEFITS

- **Reliable energy storage for your adventures:** powerful 768Wh (25.6V30Ah) integrated LiFePO₄ battery, built-in pure sinus wave inverter with 1000W continuous / 1500W surge power.
- **Solar ready:** plug in your solar panel to the DC or Anderson port and quickly charge the Powerhive in just a few hours.
- **7 different power outlets:** 2x AC outlet, 2 USB-C, 1 USB-A, DC port, 12V port.
- **Fast en versatile charging options:** quick recharge via AC adapter, solar panel, or 12V port (car).
- **Compact and lightweight:** with dimensions of 335*193*190mm and weighing only 11 Kg, the Powerhive 800 is easy to carry wherever your adventures take you.
- **Built to last:** cycle life of more than 2000 charge cycles with 2 year warranty.
- **Elegance & durability:** sleek design with aluminum space grey casing.

Go explore!

The Powerhive 800 is the ultimate portable power station, designed to keep you powered up. Whether you are camping in the wilderness, fishing in the great outdoors, or on an outdoor adventure.

3. SAFETY PRECAUTIONS AND WARNINGS

The Powerhive 800 has been engineered with a safe and long user life in mind. Please thoroughly review this manual and follow the safety precautions. Not doing so may cause danger, invalidate the warranty and result in the malfunctioning of your product.

1. This product contains a rechargeable lithium iron phosphate (LiFePO₄) battery. Handle with care during operation, storage, and transport.
2. Only use the charger provided or approved by Rebelcell. Using incompatible chargers may cause fire or explosion.
3. Before charging any device, ensure the input voltage matches

the Powerhive's output and that you use the correct USB port. Always use original or certified cables.

4. Charge the unit only in a **dry, well-ventilated area**. Do not expose it to rain, submerge in water, or operate in high-humidity environments.
5. **Do not drop, puncture, crush, or expose the Powerhive to strong impacts.** In case of visible damage, discontinue use and contact Rebelcell support.
6. Only use or charge the Powerhive 800 between its operating temperature of 0°C to 40°C. Avoid storing the battery below 0°C.
7. Keep away from **open flames, heat sources, and direct sunlight**. Do not operate above 40°C. The battery may shut down above 55°C to protect itself, and not turn on until conditions have changed.
8. Do not disassemble, repair, or modify the unit yourself. Doing so may cause electric shock, void the warranty, or render the unit unsafe.
9. Avoid short circuits. **Never insert metal objects or non-compatible accessories into any ports or ventilation openings.**
10. Do not cover the unit or block the fan. Proper ventilation is essential during operation and storage.
11. Charging and discharging simultaneously is possible, but under specific conditions. Review the Frequently Asked Questions section for more details.
12. Keep out of reach of children and pets. This device delivers potentially fatal AC power similar to a household outlet.
13. If the device becomes wet, **do not attempt to turn it on**. Move it to a safe open space and contact customer support.
14. Clean only with a dry cloth. Keep ports free of dust and moisture.
15. Please charge your Powerhive 800 before storage and fully recharge it every 3 months at least. Store it in a cool and dry place.
16. If the main power supply shuts down automatically because of lower battery capacity, please recharge it within 3 months. Otherwise, the battery capacity won't be recovered.
17. This product may emit electromagnetic fields. **Users with med-**

ical implants such as pacemakers should consult their device manufacturer before use.

18. This device is classified as **ADR Class 9 hazardous material**. Refer to the Rebelcell website for full transport and MSDS guidelines.

4. DISPOSAL GUIDE

1. Do not dispose of this product in household waste. The Powerhive 800 contains a lithium iron phosphate (LiFePO_4) battery, which must be handled properly to avoid environmental harm.
2. If possible, fully discharge the battery before disposal. Then take the unit to a certified battery recycling facility or designated collection point, in accordance with local regulations.
3. If the battery cannot be fully discharged due to a fault, do not dispose of it in public bins. Contact a professional recycling service or local waste authority for safe handling.
4. Do not crush, incinerate, or expose the unit to fire at end of life.
5. For questions on disposal, contact Rebelcell or your local electronics recycling provider.

5. OPERATION

5.1 Using the Powerhive 800

AC Output:

- a. Press the **AC ON/OFF** button to turn on AC output. The “AC ON” indicator will appear on the display.
- b. After approximately **3 seconds**, connect one end of the cable to the **AC socket**, and the other end to your electrical appliance.
- c. When finished, press the **AC ON/OFF** button again to turn off AC output.

DC Output:

- d. Press the **DC ON/OFF** button to activate DC output. The “DC” indicator will appear on the display.

- e. Connect one end of the cable to any **DC port** (USB-A, USB-C, or car cigarette lighter port), and the other end to your device — such as a **mobile phone, laptop, drone, or other digital electronic equipment**.
- f. When finished, press the DC ON/OFF button again to turn off DC output.

NOTE

- g. At 10% battery or below, the battery level icon will turn red, indicating low charge. It is recommended to recharge the unit at this point to avoid disruption.
- h. At 0% battery, both AC and DC outputs will automatically shut down.
- i. To protect your devices from sudden power loss, turn off the Powerhive 800 manually before it fully discharges, especially when powering sensitive electronics.

5.2 Charging the Powerhive 800

a. Charging via Wall Outlet (AC Adapter)

- Plug the charging cable into a standard wall outlet.
- Connect the other end to the DC input port using the provided adapter, or to the AC port using the included AC cable.
- Once connected, the charging status will appear on the LCD display.

b. Charging via Solar Panel (Max Input: 200W MPPT, 12-30V)

- Solar charging requires a compatible solar panel and is optional.
- Place the solar panel in direct sunlight for best performance.
- Connect the solar panel to the Powerhive 800 using the solar charging cable.
- Insert the plug into DC Input Port 2 (MPPT-enabled port) on the back of the unit.
- Charging status will be shown on the LCD display.
- Charging stops automatically when the battery is full or when sunlight is no longer sufficient (e.g. at night). To resume charging, unplug and reconnect the solar panel.

c. Charging via Cigarette Lighter Port (12V, 120W max)

- Plug the charging cable into your vehicle's 12V cigarette lighter port.
- Connect the other end to the DC input port on the Powerhive 800.
- The LCD display will show charging status.

CHARGING NOTES

1. Use only the charger provided or approved by Rebelcell.
2. Solar charging will automatically pause at night or in low light to protect the system. To resume, disconnect and reconnect the solar cable.
3. If using third-party solar panels, ensure:
 - DC 7909 male connector
 - MPPT charging type
 - Output range: 12–30V DC
4. AC and DC charging cannot be used at the same time.

5.3 Warning Indicators

a. Overload Protection

If the total output exceeds the power station's rated capacity, the system will display an "OVERLOAD" warning on the LCD screen.

- Reduce the connected load immediately by unplugging some devices.
- If the AC output is disabled, press the **AC ON/OFF** button to turn it off, then press again to restart the output.

b. High Temperature Protection

- The unit has an automatic temperature protection system:
- When the internal temperature exceeds 40°C or output power goes above 200W, the cooling fan will activate to maintain safe operation.
- If the internal temperature rises above **80°C**, the system will display a "**HI TEMP**" warning:
- **All AC and DC outputs will shut down automatically.**
 - The fan will remain active until the temperature falls below **40°C**.
 - Once cooled, you can resume use by pressing the power buttons again.

6. STORAGE AND DOWNTIME MAINTENANCE

Proper maintenance is essential to protect the battery and extend the life of your Powerhive 800. Failure to follow these guidelines may result in **irreversible battery damage**.

1. **Charge before storage:** Always charge the Powerhive 800 before storing it. If unused for extended periods, **fully recharge it at least once every 3 months**.
2. **Cool, dry storage:** Store the unit in a **dry environment** at a **moderate temperature**, ideally between 10–25°C. Avoid high humidity and direct sunlight.
3. **Post-shutdown charging:** If the Powerhive 800 **automatically shuts down due to low battery**, recharge it within **3 months**. Delayed charging may lead to permanent battery degradation and loss of capacity.

NOTE:

Cold temperatures (below 0°C / 32°F) can significantly reduce battery performance.

- **Do not charge the Powerhive 800 in sub-zero conditions**, as this may cause permanent damage to the lithium battery.
- It is safe to **discharge/use the unit** in cold weather, but only **charge it once the unit returns to above-freezing temperatures**.

7. FREQUENTLY ASKED QUESTIONS

Can I fly with the Powerhive 800?

No. Airline regulations limit batteries on planes to a maximum of 100Wh. The Powerhive 800 has a capacity of 768Wh and cannot be taken on a plane.

Can I recharge while powering devices at the same time?

Yes, the device supports charging while in use. However, if you plan to use AC output while charging, the battery level must be above 5%.

- Charging input via MPPT is limited to 500W.
- AC charging supports up to 1000W, but it disables MPPT charging during operation.

- Devices drawing more than 500W may rapidly deplete the battery and prevent effective recharging.

To prolong battery life and ensure stable performance, we recommend avoiding AC output during charging unless necessary.

Can I use both AC and DC ports at the same time?

Yes. The Powerhive 800 supports simultaneous use of all output ports, provided the total combined output does not exceed 1000W.

What happens if I plug in a device over 1000W?

The unit will shut down and display an overload error message. To reset:

1. Press the AC power button to turn off the output.
2. Press it again to restart the system.

How long will the Powerhive 800 hold a charge?

For optimal battery health:

- Keep the battery at around 70% charge during storage.
- Recharge the unit every 3 months.
- Store in a cool, dry place at 40–50% charge if unused for extended periods.

Can the USB-C port of the Powerhive 800 power my laptop?

Yes. The USB-C port supports up to 100W output, which is suitable for most modern laptops.

Does the Powerhive 800 shut down automatically if I forget to turn it off?

Not always. To support continuous loads like car refrigerators, the system stays on as long as there's power.

- AC/DC outputs will automatically shut down when battery reaches 0%.
- Minimum power requirements:
 - 0.9Wh to keep the unit powered on
 - 1.5Wh to enable DC output
 - 15Wh to enable AC output

Can the Powerhive 800 jump-start a car?

No. The Powerhive 800 does not support jump-starting vehicles. Jump-starting requires very high peak current, which is intentionally not supported in order to preserve battery health and cycle life.

8. WARRANTY

The Powerhive 800 has **a 2 year warranty**. Ensure that you strictly follow the guidelines in this user manual. Failure to follow the guidelines will automatically void the warranty. Please retain your sales receipt as proof of purchase is required to file a warranty claim.

9. BATTERY MANAGEMENT SYSTEM (BMS)

Offers protection for input & output overvoltage, battery overcharge and over discharge, output overcurrent and short circuit.

10. TECHNICAL SPECIFICATIONS

MODEL	Powerhive 800
Battery type	LiFePO4
Capacity	768 Wh (25.6V30Ah)
Expected cycle life	> 2000 charge cycles
Weight	11 kg
Dimensions (lxwxh)	335 x 193 x 190mm
Material	Aluminium casing in space grey finish
Working temperature	0°C - 45°C
Solar charging	Yes, max 200W via DC (no separate charge controller needed)
MPPT charger	Yes, built in via DC or Anderson port
Input	DC 7909 : DC 12-30V / 200W max MPPT Anderson PA45 : DC 12-60V / 200W max MPPT
Output USB-A (QC3.0)	5V/2A, 9V/2A, 12V/1.5A, 18W
Output USB-C (PD)	1 x PD18W 1 x PD100W
Output 12V cigar lighter	12V10A max (120W)
Output AC	2x AC outlet: AC 230V 60Hz
Inverter	Yes, built in pure sinus wave inverter

MODEL	Powerhive 800
Output power	1000W continuous, 1500W peak (5ms)
Charge time	3.5 - 4 hours
Charge status indicator	Yes, LCD screen

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