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› Hepway Alpha 2000 Portable Power Station User Manual

Hepway Alpha 2000

Hepway Alpha 2000 Portable Power Station User Manual

MODEL: ALPHA 2000

Brand: Hepway

1. Introduction and Overview

The Hepway Alpha 2000 is a versatile portable power station designed to provide reliable power for various applications, from camping and home backup to emergency situations. Featuring a 2048Wh LiFePO4 battery, it offers robust performance and an extended lifespan.

- **App Remote Control:** Easily monitor, manage, and schedule charging/discharging with the COZYLIFE App.
- **Multiple Charging Options:** Supports rapid charging via 1500W AC or 800W Solar input.
- **Expandable Capacity:** Capacity can be expanded up to 32kWh with additional Alpha 2000X expansion batteries using HEPWAY X-Link technology.
- **Versatile Output:** Can power up to 13 devices simultaneously through 4 AC 120V Outlets, 2 PD 100W USB-C, 2 Wireless Chargers, 4 USB-A, and 1 Car Port 120W.
- **Long Lifespan:** Equipped with LiFePO4 Battery, designed for 6000 cycles while retaining 80% capacity, ensuring a 10-year battery lifespan.

Harmonized Modular Design

Capacity Options Available



Alpha2000 + 2000X

4096 Wh 2Days ↑

Alpha2000 + 3PCS 2000X

10240 Wh 5Days ↑

Calculated by 2-3KWh of daily power consumption in an emergency

Figure 1: Front view of the Hepway Alpha 2000 Portable Power Station, highlighting its multiple output ports.

Plug And Play, Safe And Reliable

Based on the HEPWAY X-Link safe parallel technology, you can connect the machines in parallel at any time. Even when the host is in AC output state, you can still directly connect the machines in parallel.

1

Use the included cable to connect your Alpha 2000 to the expansion battery.



2

After the connection, The battery's built-in chip will automatically detect and validate the connection.



Figure 2: Harmonized Modular Design of the Alpha 2000, showing its expandable capacity options with additional units in a home environment.

2. Setup

This section guides you through the initial setup and unboxing of your Hepway Alpha 2000 Portable Power Station.

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Video 1: Unboxing the Hepway Alpha 2000 Portable Power Station. This video demonstrates opening the product packaging, revealing the power station, and identifying the included accessories such as power cables for solar and wall charging.

Included Components:

- 1 x Hepway Alpha 2000 Power Station
- 1 x AC Charging Cable
- 1 x Car Charger to XT60 Cable
- 1 x MC4 to XT60 Cable (for solar charging)
- 1 x User Manual

3. Operating Instructions

Familiarize yourself with the various functions and controls of your Alpha 2000 Power Station.

3.1. Display and Controls

The front panel features a clear display showing battery percentage, input/output wattage, and estimated time

till empty/full. Dedicated buttons control AC, DC, and LED outputs.

3.2. App Control (COZYLIFE App)

The COZYLIFE App allows for remote monitoring and management of your power station. You can customize power usage, schedule charging/discharging, and view real-time data.



Figure 3: The Hepway Alpha 2000 integrated into a smart home setup, demonstrating remote control via the COZYLIFE App to manage power distribution and potentially lower electricity bills.

3.3. Uninterrupted Power Supply (UPS)

The Alpha 2000 features a 10ms UPS function, ensuring a seamless power transition during outages to keep essential devices running without interruption.

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Video 2: UPS Test of the Hepway 2400W Power Station. This video demonstrates the power station's ability to seamlessly switch to battery power during a grid outage, ensuring continuous operation for connected devices.

E-TREAM

**AC RECHARGES
0-100% WITHIN 82 Mins**

1.3 HOURS TO FULLY RECHARGE
HEPWAY Alpha 2000

3.2 HOURS TO FULLY RECHARGE
Other 2000wh Power Station

- AC Wall outlet 1.3hrs (1500w)
- Solar Panel 2.5hrs (800W)
- Car Charge 17hrs (120W)
- Fuel Generator 1.3hrs (1500w)

Figure 4: The Alpha 2000 providing uninterrupted power supply (UPS) with less than 10ms switchover time, preventing devices like computers from shutting off during a blackout.

3.4. Power Lifting (3600W Boost Power)

The Alpha 2000 can deliver a rated power of 2400W and a boost power mode of 3600W, allowing it to handle high-wattage appliances.

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Video 3: Hepway Alpha 2000 Overload Test. This video demonstrates the power station's ability to handle loads exceeding its continuous output, showcasing its power lifting capability before triggering an overload protection.



Figure 5: The Alpha 2000 utilizing its 3600W Boost Power mode to operate various kitchen appliances, including a refrigerator, kettle, electric heater, oven, and range hood.

3.5. Output Ports

The Alpha 2000 offers a wide array of output ports to connect your devices:

- 4 x AC 120V Outlets
- 2 x PD 100W USB-C Ports
- 4 x USB-A Ports (2 standard, 2 fast charge)
- 2 x Wireless Chargers (15W Max)
- 1 x Car Port 120W
- 1 x Parallel Expansion Port
- 1 x XT60 Input (10-100V, 800W Max)
- 1 x AC Input Port (100V-120V, 1500W)



Aluminum Alloy Handle



Secure Communication Extension Technology



Mechanical protection button



4 Fans For Cooling

Figure 6: Detailed view of the Hepway Alpha 2000's power ports, including USB-A, USB-C, DC, AC outlets, and wireless charging pads.

4. Charging

The Alpha 2000 offers multiple rapid charging methods to ensure your power station is always ready.

4.1. Charging Methods

- **AC Input:** 1500W fast charging from a standard wall outlet.

- **Solar Input:** Up to 800W via solar panels (MC4 to XT60 cable included).
- **Car Charging:** 192W from a car's 12V outlet (car charger to XT60 cable included).
- **Generator Input:** 1500W from a compatible generator.

Power Ports

with 13 Ports

 **Wireless Charging *2**

 **LED Light *1**

 **WIFI Reset Button**

 **USB-A: 12W *2**

 **USB-A Fast: 18W *2**

 **USB-C: 100W *2**

 **Car Port : 120W *1**



 **Parallel Expansion Port *1**

 **XT60 Input: 10-100V, 800W Max *1**

 **AC Input Port: 100V-120V, 1500W *1**

 **Charging speed: Slow/Fast *1**

 **Overload Protection *1**

 **AC Output: 120V 60Hz *4**

Figure 7: Illustration of the multiple rapid charging options for the Alpha 2000, including 1500W AC input, 800W solar input, 192W car charging, and 1500W generator input.

4.2. Fast and Slow Charging Modes

The Alpha 2000 supports both fast and slow charging modes. You can select the desired charging speed via a button on the unit or through the COZYLIFE App. Slow charging is recommended for preserving battery lifespan when time is not critical.

5. Expansion

Expand the capacity of your Alpha 2000 by connecting additional Alpha 2000X expansion batteries.

3600W Boost Power

Power your work, life and more.

Easily meet your daily power needs and easily power purely resistive loads such as kettles, electric blankets and hair dryers etc.

Rated Power: 2400W | **Boost Power Mode: 3600W**



Figure 8: The scalable system of the Hepway Alpha 2000, illustrating how it can be expanded with up to 15 Alpha 2000X units to achieve a total capacity of 32kWh.

5.1. Connecting Expansion Batteries

Use the battery-to-host cable to connect the Alpha 2000X expansion battery to the main Alpha 2000 unit. The HEPWAY X-Link secure link technology allows for plug-and-play connection/disconnection in any situation, with the battery performing a safe communication judgment before powering on.

Scalable System

Up to 32kWh



Figure 9: Step-by-step guide on connecting the Alpha 2000 to an expansion battery using the included cable and the automatic detection and validation process.

5.2. Expansion Battery Compatibility

The Alpha 2000X expansion battery is designed exclusively for use with the Alpha 2000 power station and cannot be used independently or with other power station models.

6. Maintenance

6.1. Storage Guidelines

To ensure the longevity and optimal performance of your power station and any connected expansion batteries, follow these storage recommendations:

- Turn off all outputs before storage.
- Store the unit in a dry and cool environment.
- Check the remaining battery power monthly.
- For long-term storage, charge the battery to approximately 80% capacity.
- Fully charge the unit every 3 months during long-term storage.

7. Troubleshooting (FAQ)

This section addresses common questions and issues you might encounter with your Hepway Alpha 2000.

Q1: What devices can Alpha 2000 power?

A: The Alpha 2000 can charge/power devices with a power consumption below 3600W. All connected devices should also be rated below 3600W.

Q2: How do I know the working time of my device?

A: You can check the screen of the Alpha 2000 for the working time. Alternatively, calculate using the formula: Working Time = 2048Wh * 0.85 / device working power. Connecting extended battery packs will increase the working time.

Q3: What solar panel specifications should I use to charge the Alpha 2000?

A: The Alpha 2000 has an XT-60 input interface. Use a solar panel with a 10-100V output and a power of no more than 800W. The Hepway power station supports any brand of solar panels meeting these parameters.

Q4: Can I charge the Alpha 2000 using both AC and DC power at the same time?

A: No, simultaneous AC and DC charging is not possible. If both are connected, AC power will take priority as the primary input source. The system will automatically switch to DC power for charging when AC is not in use.

Q5: Are lithium-ion batteries and lithium iron phosphate batteries the same? Which is better for solar generators or power stations?

A: They are not the same. Lithium iron phosphate (LiFePO4) batteries generally offer a longer life, higher safety, and higher thermal stability compared to traditional lithium-ion batteries. The Alpha 2000 series uses LiFePO4.

8. Specifications

Feature	Specification
Brand	Hepway
Model Name	Alpha 2000
Battery Type	LiFePO4
Capacity	2048Wh

Feature	Specification
Rated Wattage	2400W
Peak/Boost Wattage	3600W
AC Output Voltage	120 Volts
AC Output Frequency	60Hz
UPS Switchover Time	10ms
AC Charging Speed	1500W
Solar Charging Speed	800W Max
USB-C Output	2 x PD 100W
Wireless Charging	2 x 15W Max
Item Weight	53 Pounds
Product Dimensions	17.8"L x 10.31"W x 14.65"H
Material	ABS, Aluminum
Special Features	Heavy Duty, Overload Protection, Remote Start, Short Circuit Protection, Super Quiet

9. Warranty and Support

The Hepway Alpha 2000 Portable Power Station comes with a **5-Year Manufacturer Warranty**.

For customer support, please refer to the contact information provided in your product packaging or visit the official Hepway website.
