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› EcoVolt P2001E Pro Portable Power Station User Manual

EcoVolt P2001E Pro

EcoVolt P2001E Pro Portable Power Station User Manual

Model: P2001E Pro

1. INTRODUCTION

Thank you for choosing the EcoVolt P2001E Pro Portable Power Station. This device is a high-capacity, high-output portable power solution designed to provide reliable electricity for various applications, including camping, RV travel, and home backup during power outages. Featuring a 2048Wh LiFePO4 battery and 3200W output, it supports a wide range of electronic devices and appliances. This manual provides essential information for safe and efficient operation, setup, maintenance, and troubleshooting.

2. SAFETY INSTRUCTIONS

Please read and understand all safety instructions before using the EcoVolt P2001E Pro. 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 electric shock.
- 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 high humidity.
- Use only the original charger and cables provided or approved by EcoVolt.
- Do not use the unit if it is damaged or has been dropped.
- Keep the unit away from children and pets.
- Ensure proper ventilation during use and charging to prevent overheating.
- Do not insert foreign objects into the ports or openings.
- Dispose of the product according to local regulations. Do not dispose of with household waste.

3. PACKAGE CONTENTS

The EcoVolt P2001E Pro package includes the following items. Please check all components upon receipt.

- 1 × EcoVolt P2001E Pro Portable Power Station

- 1 × 200W Solar Panel
- 1 × AC Charging Cable
- 1 × MC4 to XT90 Solar Charging Cable
- 1 × User Manual

Note: The solar panel and power station may be shipped separately. If you receive one package first, please wait for the arrival of the second.



Image: The EcoVolt P2001E Pro powering various devices like a kettle, refrigerator, laptop, coffee machine, and submersible pump, demonstrating its 3200W/2048Wh capacity suitable for up to 99% of devices.

4. PRODUCT OVERVIEW

Components and Ports

The EcoVolt P2001E Pro is equipped with a variety of input and output ports to accommodate diverse charging and powering needs. Familiarize yourself with the layout and function of each component.



Image: Front view of the EcoVolt P2001E Pro showing its multiple output ports, including AC outlets, USB-C, USB-A, and DC ports, capable of powering 13 devices simultaneously.



Image: An internal view of the EcoVolt P2001E Pro's LiFePO4 battery cells, emphasizing its safety, reliability, and long lifespan of over 4000 charge cycles and 15 years.

Port Details:

- **AC Output:** 4 x AC outlets (3200W total, 6400W peak).
- **USB-C Output:** 4 x USB-C ports (2 x PD 100W, 2 x PD 20W).

- **USB-A Output:** 2 x USB-A ports (QC3.0 18W).
- **DC Output:** 2 x DC5521 (12-3A), 1 x Cigarette Lighter Output (2-10A).
- **AC Input:** For charging via wall outlet.
- **XT60 Input:** For solar panel or car charging.
- **Display:** Digital display showing battery status, input/output power, and other indicators.
- **Power Button:** To turn the unit on/off.
- **Protection Button:** For safety features.

5. SETUP

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

1. **Unpack:** Carefully remove all components from the packaging.
2. **Initial Charge:** Connect the power station to a wall outlet using the AC charging cable. The display will show the charging status. It is recommended to fully charge the unit before its first use.
3. **Placement:** Place the power station on a stable, flat surface in a well-ventilated area, away from direct sunlight, heat sources, and moisture.

6. OPERATING INSTRUCTIONS

6.1 Charging the Power Station

The EcoVolt P2001E Pro offers multiple charging options:

- **AC Wall Outlet:** Connect the AC charging cable to the AC input port and then to a wall outlet. The unit can be fully charged in approximately 2 hours.
- **Solar Panel:** Connect the solar panel (included) to the XT60 input port using the MC4 to XT90 solar charging cable. Charging time depends on solar intensity. A 200W solar panel can fully charge the unit in approximately 10-12 hours under optimal sunlight.
- **Car Charger:** Connect a car charger (not included, but compatible) to the XT60 input port. This method is slower and typically used for topping up.
- **Dual Input (AC + Solar):** For the fastest charging, combine AC (1800W) and solar (500W) input. This can achieve a full charge in just 1.2 hours, or 80% in 55 minutes.



Image: EcoVolt P2001E Pro charging methods: solar, AC, and car charging, highlighting fast charging to 80% in 50 minutes with combined AC and solar input.

6.2 Discharging and Powering Devices

To power your devices:

1. **Turn On:** Press the main power button to turn on the power station.
2. **Select Output:** Press the respective button for the desired output type (AC, USB, DC) to activate the ports.
3. **Connect Devices:** Plug your devices into the appropriate output ports. The power station can power up to 13 devices simultaneously.
4. **Monitor:** The digital display will show the current output power and remaining battery level.

The 3200W output and 2048Wh capacity are sufficient for high-power appliances like coffee machines, refrigerators, and power tools. For example, a full charge can power a 50W refrigerator for approximately 35 hours.

6.3 UPS (Uninterruptible Power Supply) Function

The EcoVolt P2001E Pro features an Uninterruptible Power Supply (UPS) function. When connected to an AC wall outlet and powering devices, in the event of a power outage, the system automatically switches to battery power within 0.01 seconds (10ms). This ensures continuous operation for critical devices like computers, refrigerators, or aquariums, preventing data loss or food spoilage.

Introduzione dettagliata del prodotto

Regolazione della
potenza in ingresso CA



Uscita accendisigari
2-10A

Uscita DC5521*2
12-3A

Uscita USB-A*2
QC3.0 18W

Uscita USB-C
PD100W*1, PD20W*2
PD45W*1

Ingresso CA

Uscita CA * 4
100V porta singola
3200 W

Ingresso XT60

Pulsante di
protezione

Image: A user working on a computer powered by the EcoVolt P2001E Pro, highlighting its UPS function with less than 10ms switchover time to prevent data loss during power outages.

6.4 App Control (Wi-Fi/Bluetooth)

Control and monitor your EcoVolt P2001E Pro remotely using the dedicated smartphone application. Connect via Wi-Fi or Bluetooth to:

- Monitor battery status and remaining runtime.
- Adjust charging speed (AC and solar input power customization).
- Manage power output for different ports.
- View real-time power consumption.



Image: A user monitoring the EcoVolt P2001E Pro's status and controlling settings via a smartphone app using Bluetooth or Wi-Fi, illustrating real-time monitoring capabilities.

6.5 Quiet Operation

The EcoVolt P2001E Pro operates at a low noise level of approximately 30 dB. This makes it suitable for use in quiet environments such as RVs, vans, or bedrooms, ensuring minimal disturbance during operation or charging.



Image: An illustration demonstrating the quiet operation of the EcoVolt P2001E Pro at 29 dB, comparable to rustling leaves, ensuring undisturbed rest.

7. MAINTENANCE

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

- **Cleaning:** Use a dry, soft cloth to wipe the exterior of the unit. Do not use abrasive cleaners or immerse the unit in water.
- **Storage:** If storing for an extended period, charge the unit to 50-80% every 3-6 months. Store in a cool, dry place away from direct sunlight and extreme temperatures.
- **Battery Care:** The LiFePO4 battery is designed for over 3500 charge cycles, offering a lifespan of over 15 years. Avoid fully discharging the battery frequently to maximize its lifespan.
- **Ventilation:** Ensure the ventilation openings are clear of dust and debris.

8. TROUBLESHOOTING

If you encounter issues with your EcoVolt P2001E Pro, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Unit does not turn on	Battery is depleted; Power button not pressed correctly.	Charge the unit; Press and hold the power button for 3 seconds.
AC output not working	AC output not activated; Overload protection triggered.	Press the AC output button; Reduce the load, then restart AC output.
Slow charging via solar panel	Insufficient sunlight; Panel not optimally positioned; Dirty panel.	Ensure direct sunlight; Adjust panel angle; Clean the solar panel surface.
App connection issues	Bluetooth/Wi-Fi off; App not updated; Interference.	Ensure Bluetooth/Wi-Fi is enabled; Update the app; Move closer to the unit.
Unit overheating	Poor ventilation; Excessive load.	Ensure clear ventilation; Reduce load; Move to a cooler environment.

If the problem persists, please contact customer support.

9. SPECIFICATIONS

Technical specifications for the EcoVolt P2001E Pro Portable Power Station:

Feature	Detail
Model Name	P2001E Pro
Brand	EcoVolt
Battery Type	LiFePO4
Capacity	2048Wh
Rated Output Power	3200W

Feature	Detail
Peak Output Power	6400W
AC Input Power	Adjustable (400W, 800W, 1200W, 1800W)
Solar Input Power	Max 1000W
AC Output Voltage	230 Volt
Number of AC Outlets	4
USB-C Output	2 x PD 100W, 2 x PD 20W
USB-A Output	2 x QC3.0 18W
DC Output	2 x DC5521 (12-3A), 1 x Cigarette Lighter (2-10A)
UPS Switching Time	< 10ms (0.01 seconds)
Noise Level	Approximately 30 dB
Dimensions (L x W x H)	39.9L x 28.6W x 32H cm
Weight	22 Kilograms
Connectivity	Wi-Fi, Bluetooth (for App Control)
Special Features	Extra long runtime, Digital display, Portable, Overload protection, Super quiet
UPC	734376931353

10. WARRANTY AND SUPPORT

Warranty Information

The EcoVolt P2001E Pro Portable Power Station comes with a **5-year manufacturer's warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. It does not cover damage caused by misuse, accidents, unauthorized modifications, or natural disasters.

Customer Support

For any questions, technical assistance, or warranty claims, please contact our customer support team. We have a local service center in Europe (Germany) and our support team aims to respond within 8 hours to provide prompt, professional, and reliable service.

Please refer to the contact information provided on the EcoVolt official website or your purchase documentation for the most up-to-date support channels.