

EcoVolt P2400

EcoVolt P2400 Portable Power Station User Manual

Model: **P2400** | Brand: **EcoVolt**

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your EcoVolt P2400 Portable Power Station. Please read this manual thoroughly before using the device and retain it for future reference. The EcoVolt P2400 is a high-capacity, portable power solution designed for various applications, including home backup, outdoor activities, and emergency power needs.

2. SAFETY INSTRUCTIONS

- 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 in an area exposed to water or moisture.
- Use only the provided charger and cables.
- Ensure proper ventilation during use and charging to prevent overheating.
- Keep out of reach of children and pets.
- Avoid dropping, impacting, or subjecting the unit to strong vibrations.
- In case of fire, use a dry powder fire extinguisher. Liquid extinguishers may cause electric shock.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- EcoVolt P2400 Portable Power Station
- AC Charging Cable
- Car Charging Cable
- Solar Charging Cable
- User Manual
- 4-in-1 Charging Cable

4. PRODUCT OVERVIEW

Familiarize yourself with the physical features and ports of your EcoVolt P2400.



This image displays the front panel of the EcoVolt P2400, highlighting the multiple AC outlets, USB ports, and DC outputs available for connecting devices.

Easy To Pull Up

Pull and go, easy and convenient



A side profile of the P2400, illustrating its robust wheels and extendable handle designed for easy transport.

5. SETUP

Before initial use, ensure the power station is fully charged. The P2400 is designed for portability with built-in wheels and a handle, allowing for easy movement to your desired location.

Your browser does not support the video tag.

This video provides a visual guide to the IEE 2048Wh/2400W Solar Power Station, showcasing its fast charging, multiple output ports, portability, and applications in home backup, outdoor activities, and workshops.

6. OPERATING INSTRUCTIONS

6.1 Charging the Power Station

The EcoVolt P2400 offers multiple charging methods:


- **AC Wall Charging:** Connect the AC charging cable to the power station and a standard wall outlet. The unit supports 1800W fast charging, reaching 0-100% in approximately 1.2 hours.
- **Solar Charging:** Connect compatible solar panels (up to 500W) using the provided solar charging cable.


Optimal charging times vary based on sunlight intensity. A 0-80% charge can be achieved in approximately 1.6 hours under ideal conditions.


- **Car Charging:** Use the car charging cable to charge the unit from your vehicle's 12V outlet.
- **Combined Charging:** For the fastest recharge, combine AC and solar charging inputs.


Replenish Energy Efficiently

Redefining the 2kWh products' charging speed


1800W AC Charging
80% within **1h**


PV Charging
80% within **3.3h**


Car Charging
100% within **19h**


AC+PV Charging
100% within **0.9h**



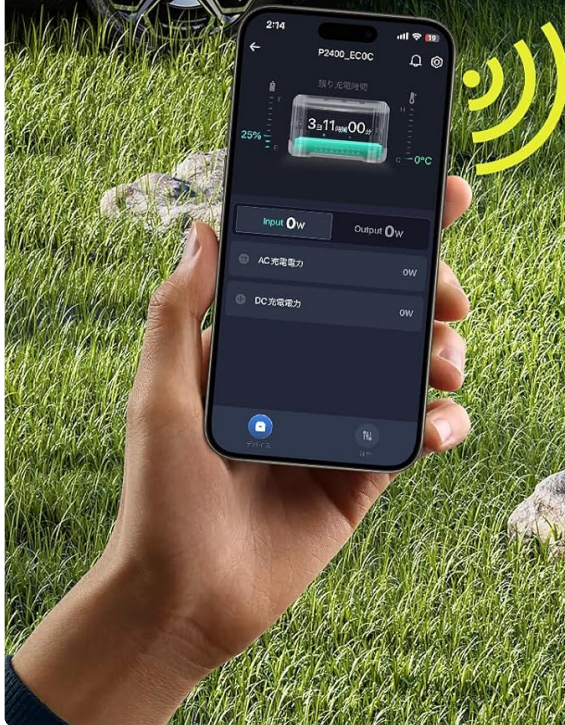
70Min | 
MAX.AC+PV 2300W Input

The power station is shown connected to a standard wall outlet for AC charging, with its digital display indicating the current input wattage and battery charge level.

Real-Time Monitor & Control

Intuitive-Intelligent-User-friendly

Bluetooth Wi-Fi



The power station is depicted outdoors, connected to solar panels, demonstrating its solar charging capability.

6.2 Discharging and Powering Devices

The P2400 features 16 versatile output ports to power a wide range of devices:

- 4 AC Outlets (2400W continuous, 3200W output/6400W surge)
- 4 USB-A Ports
- 4 Type-C PD Ports
- 2 Cigar Lighter Sockets
- 2 DC5525 Ports

Simply plug your devices into the appropriate ports and turn on the corresponding output section if required. The power station can power over 99% of common home appliances and tools.

2400W / 2048Wh

Suitable for 99% of operational needs



(1500W)
Cutting machine
1.3 hours



(450W)
Electric wrench
5.0 hours



(300W)
Water pump
6.5 hours



(1300W)
Chainsaw
1.5 hours



(1000W)
Chainsaw
2.0 hours



The P2400 is shown in a workshop, providing power to various tools, illustrating its capacity to handle demanding appliances.

6.3 EPS Auto Switchover

The P2400 includes an Ultra-fast EPS (Emergency Power Supply) Auto Switchover feature. When connected to your home's power supply, it operates in EPS mode. In the event of a power outage, the unit activates within 0.01 seconds, ensuring uninterrupted power to connected equipment.

6.4 Smart APP Control

Manage your EcoVolt P2400 remotely using the dedicated mobile application. The app allows you to:

- Monitor real-time input and output power.
- Check the remaining battery level.
- Control various settings and functions of the power station.

Automotive Grade LiFePO₄ Battery

12 Years
Lifespan
Last **8X** longer than the average

CNAS Certified
LiFePO₄
Passed **48** rigorous battery cell tests



*After 4000+ cycles, the LFP battery retains around 80% of its original capacity and lasts 8x longer than the average (500+ cycles)

A mobile phone screen shows the dedicated application for the EcoVolt P2400, allowing users to monitor power input/output and adjust settings remotely.

7. MAINTENANCE

- **Storage:** Store the unit in a cool, dry place away from direct sunlight and extreme temperatures. For long-term storage, charge the unit to 50-80% every 3-6 months to prolong battery life.
- **Cleaning:** Use a dry, soft cloth to clean the exterior of the power station. Do not use abrasive cleaners or solvents.
- **Battery Life:** The LiFePO₄ battery is designed for over 4000 charge/discharge cycles, providing a lifespan of approximately 15 years with proper care.

8. TROUBLESHOOTING

If you encounter issues with your EcoVolt P2400, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Unit not turning on	Battery is depleted; Power button not pressed correctly.	Charge the unit; Press and hold the power button for 3 seconds.
No output from AC ports	AC output is not enabled; Device exceeds 2400W (or 3200W in surge mode).	Ensure AC output is turned on; Check device wattage and reduce load.
Slow charging via solar	Insufficient sunlight; Solar panels not optimally angled; Panels are dirty.	Adjust panel angle for direct sunlight; Clean solar panels.
App not connecting	Bluetooth/Wi-Fi off; App not updated; Unit too far from phone.	Enable Bluetooth/Wi-Fi; Update app; Move closer to the unit.

If the problem persists, please contact customer support.

9. SPECIFICATIONS

Feature	Detail
Model Name	P2400
Battery Type	LiFePO4 (Lithium Iron Phosphate)
Capacity	2048Wh
AC Output	2400W (Continuous), 3200W (Output), 6400W (Surge)
AC Input (Charging)	1800W Max
Solar Input (Charging)	500W Max
USB-A Output	4 Ports
Type-C PD Output	4 Ports
Cigar Lighter Output	2 Ports
DC5525 Output	2 Ports
Dimensions (L x W x H)	11.7" x 14.4" x 17.5"
Weight	24kg / 52lb
EPS Switchover Time	<10ms
Battery Cycles	4000+ to 80% capacity

10. WARRANTY AND SUPPORT

The EcoVolt P2400 Portable Power Station comes with a **5-year 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.

For warranty claims, technical support, or any inquiries, please contact EcoVolt customer service through the official website or your retailer. Please have your purchase receipt and product model number (P2400) available when contacting support.