

pecron E2400LFP

PECRON E2400LFP Portable Power Station and 4x200W Solar Panels User Manual

Model: E2400LFP

1. INTRODUCTION

This manual provides essential instructions for the safe and efficient operation, maintenance, and troubleshooting of your PECRON E2400LFP Portable Power Station and accompanying 4x200W Solar Panels. Please read this manual thoroughly before using the product to ensure optimal performance and longevity.



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 an area exposed to water.
- 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 to prevent overheating.
- When handling solar panels, avoid bending or applying excessive pressure to prevent damage.
- Disconnect all cables when the unit is not in use.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- PECRON E2400 LFP Power Station (x1)
- 200W Solar Panel (x4)
- AC Charging Cable (x1)
- Solar Charging Cable (x1)
- Car Charging Cable (x1)
- 12V Alligator Clips (x1)
- Accessory Pouch (x1)
- User Manual (x1)

4. PRODUCT OVERVIEW

The PECRON E2400LFP is a high-capacity portable power station designed for various applications, from emergency backup to outdoor adventures. It features a robust LiFePO4 battery and multiple output options.

4.1. Key Features

- **High Capacity:** 2048Wh LiFePO4 battery, expandable up to 8192Wh with optional EP3000-48V extra batteries.
- **Powerful Output:** 2400W continuous AC output.
- **Versatile Ports:** 3x AC outlets, 2x USB-C ports, 4x USB-A ports, 1x XT60-F output, 1x Cigar Port, 1x DC 5525 output.
- **Fast Charging:** Recharges fully in approximately 90 minutes via AC input.
- **Durable Battery:** LiFePO4 battery offers 3500 complete charge cycles while retaining 80% of its original capacity.
- **Smart Control:** Monitor and control the power station via a dedicated mobile application.

12 OUTPUT OPTIONS



AC Output*3



USB-A*4



USB-C*2



XT60-F*1



Cigar Port*1



DC 5525 Output *1



Image 4.1: The PECRON E2400LFP features 12 output options for various devices.

APP SMART CONTROL



Check Machine Status



View Power Level



Customized Charging Power

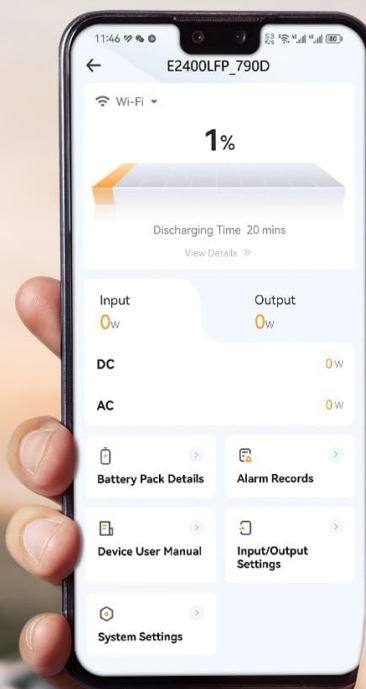


Image 4.2: The PECRON E2400LFP can be monitored and controlled via a smartphone app.

5. SETUP

5.1. Initial Inspection and Charging

1. Unpack all components and inspect for any visible damage.
2. Before first use, fully charge the PECRON E2400LFP Power Station using the provided AC charging cable. Connect the AC charging cable to the AC input port on the power station and then to a standard wall outlet. The display will indicate charging status.

5.2. Solar Panel Deployment

1. Unfold the 200W solar panels and position them in direct sunlight. Ensure no shadows are cast on the panels for maximum efficiency.
2. Connect the solar panels to the power station using the provided solar charging cable. Refer to the 'Connecting Solar Panels' section for detailed instructions.

6. OPERATING INSTRUCTIONS

6.1. Charging the Power Station

The E2400LFP can be charged via multiple methods:

- **AC Wall Charging:** Connect the AC charging cable to the power station's AC input and a wall outlet. Full charge in approximately 1.5 hours.
- **Solar Panel Charging:** Connect the solar panels to the power station using the solar charging cable. With 800W solar input (4x200W panels), a full charge can be achieved in approximately 3 hours under optimal sunlight conditions.
- **Car Charging:** Use the provided car charging cable to connect the power station to your vehicle's 12V cigarette lighter port. A full charge takes approximately 4.5 hours with 500W car charging.

RECHARGE ANYWHERE

Wall Charging

1.5 Hrs



Solar Panel Charging

3 Hrs



500W Car Charging

4.5 Hrs



Image 6.1: The PECRON E2400LFP can be recharged from a wall outlet, solar panels, or a car charger.

FAST CHARGING

100% FULLY CHARGE IN 1.5 HOURS



Image 6.2: The PECRON E2400LFP supports fast charging, reaching 100% in 1.5 hours via AC.

6.2. Discharging and Using Outputs

To power your devices:

1. Press the master power button to turn on the unit.
2. Activate the desired output section (AC, USB, DC) by pressing its respective button. The indicator light will illuminate.
3. Connect your devices to the appropriate output ports.
4. The display will show real-time input and output wattage, as well as remaining battery capacity.
5. When finished, turn off the output sections and then the master power button.



Image 6.3: The PECRON E2400LFP can power multiple devices, such as laptops and mini-fridges, for extended periods.

6.3. Expanding Capacity

The PECRON E2400LFP's capacity can be expanded by connecting optional EP3000-48V extra batteries. One extra battery expands capacity to 5120Wh, and two extra batteries expand it to 8192Wh. Refer to the extra battery's manual for specific connection instructions.



Image 6.4: The PECRON E2400LFP supports scalable power solutions, expanding up to 8192Wh with additional batteries.

7. MAINTENANCE

- **Cleaning:** Use a dry, soft cloth to wipe the surface of the power station and solar panels. Do not use harsh chemicals or abrasive materials.
- **Storage:** Store the unit in a cool, dry place away from direct sunlight and extreme temperatures. For long-term storage, charge the battery to 50-80% every 3-6 months to maintain battery health.
- **Battery Health:** The LiFePO4 battery is designed for 3500 complete charge cycles to 80% capacity. Avoid consistently fully discharging the battery to prolong its lifespan.



Image 7.1: The PECRON E2400LFP utilizes LiFePO4 battery technology for long-lasting performance.

8. TROUBLESHOOTING

If you encounter issues with your PECRON E2400LFP, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Unit not turning on	Battery fully discharged; Power button not pressed correctly	Charge the unit; Press and hold the power button for 3 seconds
No output from ports	Output section not activated; Overload protection triggered; Cable issue	Activate the specific output (AC/USB/DC); Reduce connected load; Check cable connections
Slow solar charging	Insufficient sunlight; Panels not angled correctly; Dirty panels; Damaged cable	Reposition panels for direct sunlight; Clean panel surfaces; Check cable integrity
Overheating warning	Poor ventilation; Excessive load	Ensure unit is in a well-ventilated area; Reduce connected load; Allow unit to cool down

If the problem persists, please contact PECRON customer service for assistance.






9. SPECIFICATIONS

Feature	Detail
Model	E2400LFP
Battery Type	LiFePO4
Capacity	2048Wh (Expandable to 8192Wh)
AC Output	2400W (Continuous), 120V
USB-C Output	x2 Ports
USB-A Output	x4 Ports
XT60-F Output	x1 Port
Cigar Port Output	x1 Port
DC 5525 Output	x1 Port
AC Charging Time	Approx. 1.5 hours
Solar Charging Time	Approx. 3 hours (with 800W solar input)
Car Charging Time	Approx. 4.5 hours (with 500W car charging)
Dimensions (L x W x H)	14.8" x 9.3" x 13"
Weight	45 lbs
Included Solar Panels	4x 200W Foldable Solar Panels

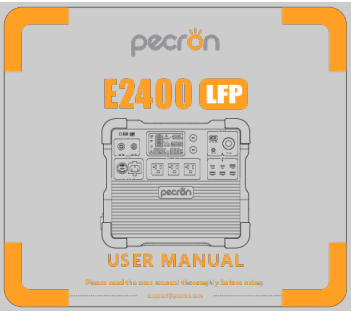
10. WARRANTY AND SUPPORT

PECRON provides a **2+1 year worry-free warranty** for the E2400LFP Portable Power Station and included solar panels. This warranty covers defects in materials and workmanship under normal use. For technical support, warranty claims, or any questions regarding your product, please contact PECRON customer service. Our team is available **24 hours a day, 7 days a week** to provide friendly and helpful assistance.

Please visit the official PECRON website or refer to the contact information provided in your warranty card for the most up-to-date support details.

	<p>PECRON E2400 LFP Portable Power Station User Manual</p> <p>Comprehensive user manual for the PECRON E2400 LFP portable power station, detailing its features, specifications, operation, solar charging capabilities, FAQs, and important safety guidelines.</p>
	<p>PECRON E2400 LFP User Manual: Portable Power Station Guide</p> <p>Comprehensive user manual for the PECRON E2400 LFP portable power station. Learn about its specifications, features like UPS function, solar charging capabilities, and safety guidelines.</p>
	<p>PECRON E2400 LFP Portable Power Station User Manual & Guide</p> <p>Comprehensive user manual for the PECRON E2400 LFP portable power station, detailing specifications, features, operation, safety, and troubleshooting. Learn how to use its multiple output ports, solar charging capabilities, and UPS function.</p>
	<p>Pecron E600 LFP Portable Power Station User Manual</p> <p>Comprehensive guide to the Pecron E600 LFP portable power station, covering features, specifications, safe operation, charging methods, and FAQs for reliable energy on the go.</p>
	<p>Pecron E1000 PRO User Manual: Portable Power Station Guide</p> <p>Comprehensive user manual for the Pecron E1000 PRO portable power station. Learn about its features, specifications, charging methods, and safety precautions for reliable power on the go.</p>
	<p>PECRON E300 LFP Portable Power Station User Manual</p> <p>User manual for the PECRON E300 LFP portable power station, covering specifications, operation, charging, safety, and FAQs for this 288Wh LiFePO4 battery device.</p>

Documents - pecron – E2400LFP



[PECRON E2400 LFP User Manual: Portable Power Station Guide](#)

Comprehensive user manual for the PECRON E2400 LFP portable power station. Learn about its specifications, features like UPS function, solar charging capabilities, and safety guidelines.

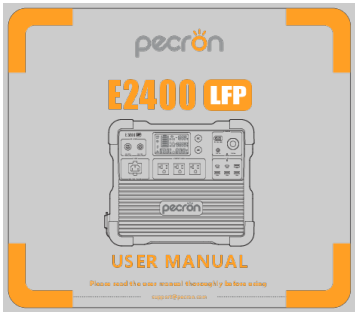
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[PECRON E2400 LFP Portable Power Station User Manual](#)

Comprehensive user manual for the PECRON E2400 LFP portable power station, detailing its features, specifications, operation, solar charging capabilities, FAQs, and important safety guidelines.

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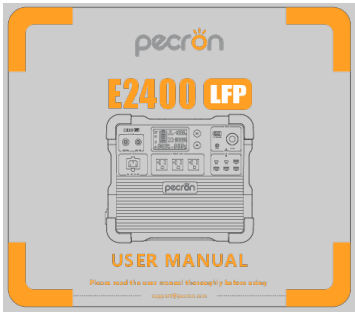
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[PECRON E2400 LFP Portable Power Station User Manual & Guide](#)

Comprehensive user manual for the PECRON E2400 LFP portable power station, detailing specifications, features, operation, safety, and troubleshooting. Learn how to use its multiple output ports, solar charging capabilities, and UPS function.

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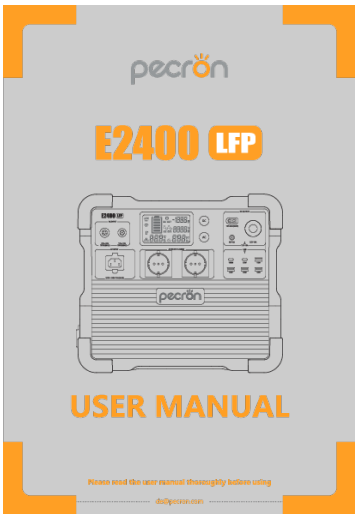
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