

Pecron E500LFP

Pecron E500LFP Portable Power Station User Manual

Model: **E500LFP** | Brand: **Pecron**

1. INTRODUCTION

The Pecron E500LFP Portable Power Station is a versatile and reliable power solution designed for various applications, including home use, RV trips, camping, and emergency backup. Featuring a 576Wh LiFePO4 battery and 600W AC output, it provides stable and efficient power for multiple devices. This manual provides detailed instructions for safe and effective operation, maintenance, and troubleshooting of your E500LFP unit.



Figure 1.1: The Pecron E500LFP Portable Power Station, a compact and robust power solution.

2. SAFETY INFORMATION

Please read and understand all safety warnings and instructions before using the Pecron E500LFP. Failure to follow these guidelines may result in electric shock, fire, serious injury, or property damage.

- Do not disassemble, repair, or modify the unit.
- Avoid exposure to rain, moisture, or direct sunlight for prolonged periods.
- Keep away from heat sources, open flames, and flammable materials.
- Ensure proper ventilation during use to prevent overheating.
- Do not operate if the unit or cables are damaged.
- Keep out of reach of children and pets.
- Dispose of the battery and unit according to local regulations.



How to store PECRON E500 LFP?

- Please turn off the unit and then store it in a dry, ventilated place at normal room temperature.
- For long-term storage, it is recommended to discharge the battery to 30% every three months and recharge it to 60% to sustain the battery life.



Light Weight



Fast Charging



Safety&Durable



Long Lifetime



ECO Friendly



LiFePO4 Battery



UPS



Smart Control

Figure 2.1: The E500LFP features a built-in Battery Management System (BMS) for enhanced safety and stable power delivery.

3. PACKAGE CONTENTS

Verify that all items are included in your package:

- Pecron E500LFP Power Station (x1)
- AC Charging Cable (x1)
- Car Charging Cable (x1)
- Accessory Pouch (x1)
- User Manual (x1)

4. PRODUCT OVERVIEW

The Pecron E500LFP is equipped with various ports and features for maximum utility.

4.1. Ports and Features

- **AC Output (x2):** For standard household appliances (600W Pure Sine Wave).
- **USB-A Output (x2):** For charging smartphones, tablets, and other USB devices.
- **USB-C Output (x1):** 100W Power Delivery for fast charging compatible devices.
- **Cigar Port (x1):** 12V DC output for car appliances.
- **DC 5525 Output (x2):** For specific DC-powered devices.
- **Wireless Charger (x1):** Convenient charging pad on top of the unit.
- **LED Light:** Integrated light for illumination in dark environments.
- **LCD Display:** Shows battery level, input/output wattage, remaining time, and alarms.

9 OUTPUT OPTIONS



AC Output *2



USB-A *2



USB-C *1



Cigar Port *1



DC 5525 Output *2



Wireless Charger *1



Figure 4.1: Overview of the 9 versatile output options available on the E500LFP.

3500 CYCLES

pecron E500 LFP utilizes LiFePO4 battery, it can retain 80% of its original capacity at 3500 complete charge cycles.



Figure 4.2: Detailed view of the LCD display, showing various indicators and information.

5. SETUP

5.1. Initial Charging

Before first use, fully charge your Pecron E500LFP. This ensures optimal battery performance and longevity.

1. Connect the AC Charging Cable to the AC input port on the power station.
2. Plug the other end of the AC Charging Cable into a standard wall outlet.
3. The LCD display will indicate charging status. The unit is fully charged when the battery icon is full and the input wattage drops to zero.

A full charge via AC can take approximately 1.5 hours.

100% FULLY CHARGED IN 1.5 HOURS



Figure 5.1: The E500LFP can be fully charged in approximately 1.5 hours using AC fast charging.

6. OPERATING INSTRUCTIONS

6.1. Powering On/Off

To power on the unit, press and hold the main power button for 5 seconds. The LCD display will illuminate. To power off, press and hold the main power button again until the display turns off.

6.2. Using AC Outlets

1. Ensure the power station is turned on.
2. Press the "AC ON/OFF" button to activate the AC outlets. The AC indicator on the display will light up.
3. Plug your AC-powered device into one of the AC outlets.
4. When finished, press the "AC ON/OFF" button again to turn off the AC outlets and conserve power.

6.3. Using USB and DC Outputs

1. Ensure the power station is turned on.
2. For USB-A, USB-C, Cigar Port, or DC 5525 outputs, simply plug in your device. These ports are typically active when the unit is on.
3. For wireless charging, place your compatible device on the designated wireless charging pad on top of the unit.

POWER VARIOUS DEVICES

Capacity
576Wh

Output
600W



Phone(11Wh)
40 Times



Laptop(60Wh)
8 Times



Light(10Wh)
48 Hours



Mini Fridge(40W)
12 Hours



Figure 6.1: The E500LFP can power a wide range of devices, from phones and laptops to mini-fridges.

ENJOY OUTDOOR CAMPING WITH YOUR FAMILY



Figure 6.2: The portable design makes it ideal for outdoor activities like camping.

LED LIGHT

Brighten Your Travels, Charge with Ease



Figure 6.3: The integrated LED light provides convenient illumination for various situations.

6.4. UPS Function

The E500LFP features an Uninterruptible Power Supply (UPS) function, allowing it to switch to battery power within 8-20ms in case of a power outage. This helps prevent data loss for connected devices.



Figure 6.4: The UPS function ensures continuous power supply to critical devices during outages.

7. CHARGING THE POWER STATION

The Pecron E500LFP offers multiple charging methods:

- **AC Wall Outlet:** Fully charges in approximately 1.5 hours with 500W AC fast charging.
- **USB-C:** Can be charged via USB-C in approximately 6 hours.
- **Solar Panel:** Compatible with 100W solar panels, charging in approximately 6 hours (solar panel sold separately).
- **Car Charging:** Charges from your vehicle's 12V outlet in approximately 6 hours.

4 WAYS TO CHARGE



Figure 7.1: The E500LFP supports multiple charging methods for convenience.

8. MAINTENANCE

8.1. Storage

To ensure the longevity of your E500LFP:

- Turn off the unit and store it in a dry, well-ventilated place at normal room temperature.
- For long-term storage, it is recommended to discharge the battery to 30% every three months and recharge it to 60% to sustain the battery life.

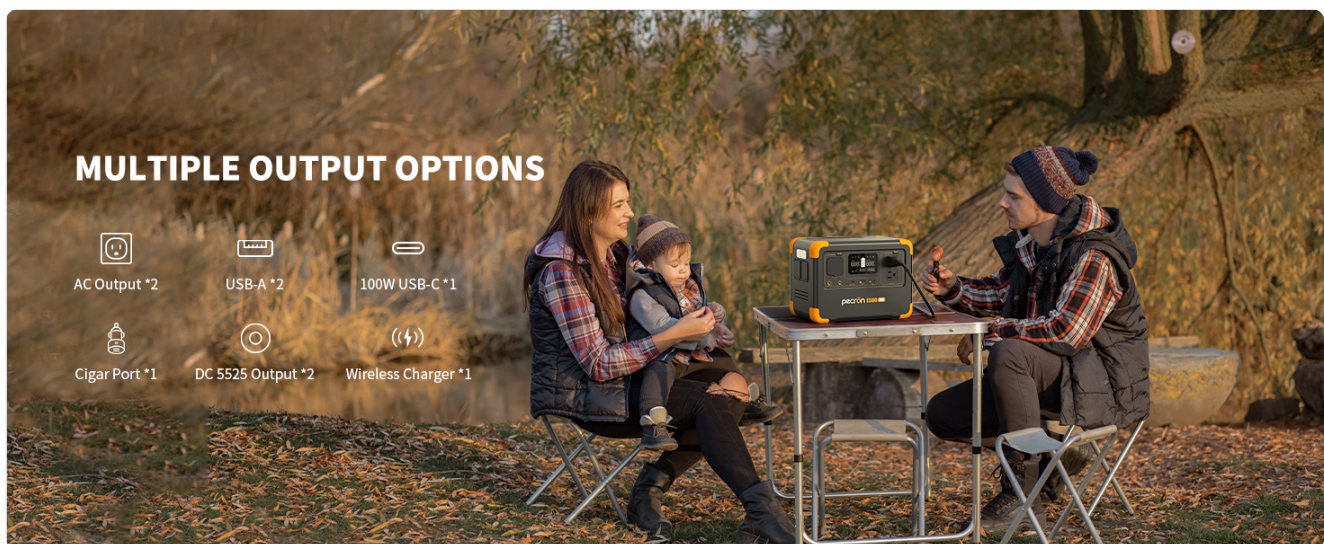


Figure 8.1: Proper storage guidelines for the Pecron E500LFP.

8.2. Battery Life

The E500LFP utilizes LiFePO4 battery technology, which offers a longer lifespan compared to traditional lithium-ion batteries. It can retain 80% of its original capacity after 3500 complete charge cycles.



Figure 8.2: The LiFePO4 battery ensures extended durability and cycle life.

9. TROUBLESHOOTING

If you encounter issues with your Pecron E500LFP, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Unit does not turn on.	Battery is fully discharged; Power button not held long enough.	Charge the unit; Press and hold the power button for 5 seconds.
AC output not working.	AC output not activated; Device draws too much power.	Press the AC ON/OFF button; Check device wattage (max 600W).

Problem	Possible Cause	Solution
Slow charging.	Using a low-power charging method (e.g., car charger vs. AC).	Use the AC fast charging cable for quickest charge.
Unit overheating.	Poor ventilation; Excessive load.	Ensure clear airflow around the unit; Reduce connected load.

10. SPECIFICATIONS

Feature	Detail
Model Name	E500LFP Solar Generator
Battery Type	LiFePO4
Capacity	576Wh
AC Output	600W Pure Sine Wave (2 outlets)
USB-A Output	2 ports
USB-C Output	100W PD (1 port)
Cigar Port	1 port
DC 5525 Output	2 ports
Wireless Charging	Yes
AC Charging Time	Approx. 1.5 hours (500W)
Solar/Car Charging Time	Approx. 6 hours (100W Solar Panel)
Dimensions	10"L x 6.8"W x 7.4"H
Weight	14 Pounds
Special Features	Portable, Fast Charging, Large Capacity, Long Last, Safety, Smart Control, UPS

11. WARRANTY AND SUPPORT

Pecron offers a **2+1 years worry-free warranty** for the E500LFP Portable Power Station. For any inquiries, technical assistance, or warranty claims, please contact Pecron customer service.

Customer Service: Available 24 hours a day, 7 days a week.

For more information, visit the official Pecron store:[Pecron Amazon Store](#)

12. PRODUCT VIDEO






Watch the official product video for a visual guide on the Pecron E500LFP Portable Power Station's features and uses.

Your browser does not support the video tag.

Video 12.1: Official product video showcasing the Pecron E500LFP Portable Power Station in various scenarios, including outdoor use and home backup.

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Related Documents - E500LFP

	<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 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 E600 LFP Portable Power Station User Manual</p> <p>User manual for the PECRON E600 LFP portable power station. This guide details the product's features, specifications, operation, charging methods (AC, DC, Solar), solar panel compatibility, frequently asked questions, important warnings, and disposal instructions. Essential reading for users of this 614Wh LiFePO4 power station with 1200W AC output and 100W USB-C PD.</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 E1500 LFP Portable Power Station User Manual</p> <p>Comprehensive user manual for the PECRON E1500 LFP portable power station, covering specifications, functions, operation, safety guidelines, and troubleshooting.</p>



[PECRON E1500 LFP Portable Power Station User Manual](#)

This user manual provides comprehensive details on the PECRON E1500 LFP portable power station, covering its features, specifications, operation, charging methods, UPS functionality, app integration, and important safety guidelines.