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- › [pecron](#) /
- › [Pecron E1000LFP Portable Power Station User Manual](#)

pecron E1000LFP



Pecron E1000LFP Portable Power Station

USER MANUAL

1. Introduction

The Pecron E1000LFP is a versatile and powerful portable power station designed to provide reliable energy for various applications, including emergencies, camping, RV trips, and home use. Featuring a 1024Wh LiFePO4 battery and an impressive 1800W AC output, it offers a safe and long-lasting power supply. This manual provides essential information for the safe and efficient operation and maintenance of your E1000LFP power station.

2. Product Overview

The Pecron E1000LFP is engineered for portability and durability, featuring a robust design with multiple output options to power a wide range of devices. Its intuitive interface ensures ease of use, while advanced battery technology provides reliable performance.



Figure 2.1: Front view of the Pecron E1000LFP Portable Power Station, showcasing its display and various output ports.

2.1 Key Features

- **1024Wh LiFePO4 Battery:** Ensures a safe and long-lasting power supply with over 3500 complete charge cycles.
- **1800W AC Output:** Capable of powering high-wattage appliances.
- **Expandable Capacity:** Can be expanded up to 4096Wh by connecting an external Pecron EP3000-48V battery.
- **Fast Charging:** Recharges in approximately 1.3 hours via AC input.
- **Multiple Output Ports:** Includes 5x AC Outlets, 2x USB-C (100W), 2x USB-A (18W), 1x XT60 Output, 1x Cigar Port, and 1x DC 5525 Output.
- **Smart App Control:** Monitor and control the power station remotely via a dedicated mobile application.
- **Battery Heating:** Activates automatically when charging in cold temperatures (-20°C to 0°C) to ensure optimal performance.
- **UPS Function:** Provides uninterrupted power supply with 8-20ms fast switching.

2.2 Ports and Controls

Familiarize yourself with the various ports and controls on your Pecron E1000LFP unit:

- **DC Input:** For solar panel or car charging (11-60V, 600W Max). Features an 8/20A adjustable switch.
- **AC Output:** Five standard AC outlets (1800W max).
- **USB-C Ports:** Two 100W USB-C ports for fast charging compatible devices.
- **USB-A Ports:** Two 18W USB-A ports for standard USB charging.
- **Cigar Port:** One 12V/10A cigar lighter port.
- **DC 5525 Output:** One 12V/10A DC 5525 output.
- **XT60 Output:** One 12V/10A XT60 output.
- **AC Input Port:** Located at the rear, for wall charging (100-120V, 15A Max).
- **Extra Battery Port:** Located at the rear, for connecting the Pecron EP3000-48V expansion battery.

- **LCD Display:** Shows input/output power, battery percentage, and other status indicators.
- **Power Button:** Turns the unit on/off.
- **AC/DC Buttons:** Activate/deactivate respective outputs.

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Video 2.1: A detailed overview of the Pecron E1000LFP Portable Power Station, demonstrating its features, ports, and expandable capacity.

3. Setup and Initial Use

3.1 Unpacking and Inspection

Upon receiving your Pecron E1000LFP, carefully unpack all components and inspect for any shipping damage. The package should include:

- Pecron E1000LFP Power Station
- AC Charging Cable
- Solar Charging Cable
- Car Charging Cable
- Accessory Bag
- User Manual

3.2 Initial Charging

It is recommended to fully charge the power station before first use to optimize battery performance and lifespan.

1. Open the protective cover for the AC Input Port located at the rear of the unit.
2. Connect the AC Charging Cable to the power station and then to a standard wall outlet.
3. The LCD display will show charging status. The unit will be fully charged in approximately 1.3 hours.

**100% FULLY CHARGE IN
1.3 HOUR**



Figure 3.1: The Pecron E1000LFP being charged via its AC input from a standard wall outlet, illustrating its fast charging capability.

4. Operating Instructions

4.1 Turning On/Off

Press and hold the main power button for a few seconds to turn the unit on or off. The LCD display will illuminate upon activation.

4.2 Using AC/DC Outputs

To activate the AC or DC outputs, press the corresponding AC or DC button on the front panel. The respective indicators on the LCD display will light up. Connect your devices to the appropriate ports.

12 OUTPUT OPTIONS



1*Cigar Port



1*DC 5525 Output



1*XT60 Output



2*USB-C



2*USB-A



5*BS-U20



Figure 4.1: The Pecron E1000LFP demonstrating its 12 output options, including AC, USB-C, USB-A, XT60, Cigar Port, and DC 5525, suitable for powering diverse devices.

POWER VARIOUS DEVICES

1024Wh / 1800W



Phone(11Wh)
35 Times



Laptop(60Wh)
15 Times



Drone(40W)
19 Hours



Camera(16W)
29 Hours



Projector(65W)
13 Hours



Figure 4.2: The Pecron E1000LFP powering various devices like phones, laptops, drones, cameras, and projectors, highlighting its 1024Wh/1800W capacity for outdoor use.

4.3 Charging Methods

The Pecron E1000LFP supports multiple charging methods:

- **AC Wall Outlet:** Fastest charging method, approximately 1.3 hours.
- **Solar Panels:** Connect compatible solar panels (up to 600W) to the DC input port. Charging time varies based on solar intensity and panel wattage.
- **Car Charger:** Use the provided car charging cable to charge from your vehicle's 12V outlet.

MULIPLE CHARGING WAY



Figure 4.3: Illustration of the multiple charging methods for the Pecron E1000LFP, including AC fast charge, 200W solar panel, 12V car, and PECRON 500W car charging.

4.4 Expandable Capacity

The E1000LFP's capacity can be expanded up to 4096Wh by connecting a Pecron EP3000-48V external battery. Connect the expansion battery to the dedicated port at the rear of the main unit.

4.5 Smart App Control

Download the Pecron app from your device's app store to remotely monitor and control your power station. The app allows you to customize charging power, view input/output power, check power levels, and remotely switch DC/AC outputs.



Figure 4.4: The Pecron E1000LFP demonstrating its smart app control feature, allowing users to manage settings and monitor power from their smartphone.

4.6 UPS Function

The E1000LFP features an Uninterruptible Power Supply (UPS) function, providing seamless power transfer within 8-20ms in case of a power outage when connected to a wall outlet and powering devices.

5. Maintenance and Care

5.1 Battery Care

The Pecron E1000LFP uses a LiFePO4 battery, known for its longevity and safety. To maximize its lifespan:

- Avoid fully discharging the battery frequently.
- Store the unit in a cool, dry place, ideally with a charge level between 50-80%.

- Recharge the unit every 3-6 months if not in use to prevent deep discharge.

LIFEPO4 BATTERY

3500 CYCLES DURABLE 10 YEARS



Retain 80% of its original capacity at 3500 complete charge cycles.

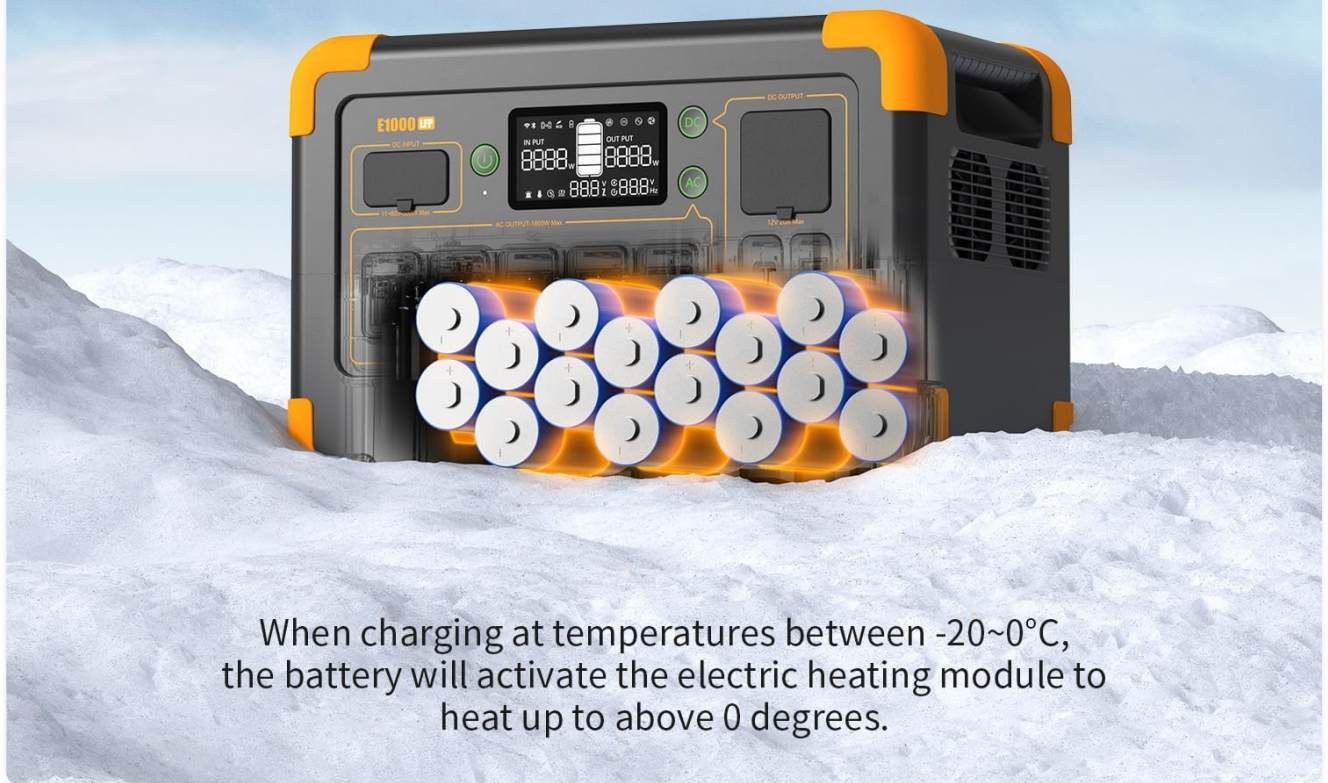
Figure 5.1: Diagram illustrating the durability of the Pecron E1000LFP's LiFePO4 battery, capable of 3500+ cycles while retaining 80% of its original capacity.

5.2 Cold Weather Operation

The E1000LFP features a battery heating module. When charging at temperatures between -20°C and 0°C, the battery will automatically activate this module to heat up above 0°C, ensuring safe and efficient charging.

BATTERY HEATING

Charge Worry-free in the Cold



When charging at temperatures between -20~0°C, the battery will activate the electric heating module to heat up to above 0 degrees.

Figure 5.2: The Pecron E1000LFP's battery heating feature, which allows for worry-free charging in cold environments by warming the battery to above 0 degrees Celsius.

5.3 Cleaning

Use a soft, dry cloth to clean the exterior of the unit. Do not use abrasive cleaners or immerse the unit in water.

6. Troubleshooting

If you encounter issues with your Pecron E1000LFP, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Unit does not turn on	Battery is completely drained; Power button not pressed long enough.	Charge the unit using the AC charging cable. Press and hold the power button for 3-5 seconds.

Problem	Possible Cause	Solution
No AC output	AC output not activated; Overload protection; Device power exceeds 1800W.	Press the AC button to activate. Reduce connected load. Check device wattage.
No DC output	DC output not activated; Overload protection.	Press the DC button to activate. Reduce connected load.
Slow charging	Using a lower wattage charger (e.g., car charger vs. AC); High ambient temperature.	Use the AC charging cable for fastest charge. Ensure proper ventilation.
LCD display not working	Unit is off; Display malfunction.	Turn on the unit. If issue persists, contact customer support.

For further assistance, please contact Pecron customer service.

7. Specifications

Detailed technical specifications for the Pecron E1000LFP Portable Power Station:

Feature	Specification
Model Name	E1000LFP
Battery Type	LiFePO4
Capacity	1024Wh
AC Output	1800W (Rated), 3600W (Peak)
AC Input Voltage	100-120V, 15A Max
DC Input Voltage	11-60V, 600W Max (Adjustable 8/20A)
USB-C Output	2 x 100W
USB-A Output	2 x 18W
Cigar Port Output	1 x 12V/10A
DC 5525 Output	1 x 12V/10A
XT60 Output	1 x 12V/10A
Dimensions (L x W x H)	14.9" x 9.4" x 10"
Weight	29 Pounds
Operating Temperature	Optimal range for discharge and charge (with heating)
Life Cycles	3500+ cycles to 80% capacity






8. Warranty and Support

Pecron offers a 2+1 years worry-free warranty for the E1000LFP Portable Power Station. This includes 2 years standard warranty plus an additional 1 year upon product registration or other qualifying conditions. For technical support, warranty claims, or any inquiries, please contact Pecron customer service. Keep your proof of purchase for warranty validation.

Customer service is available 24 hours a day, 7 days a week.

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Related Documents - E1000LFP

	<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 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>
	<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 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 E3600 LFP Portable Power Station User Manual</p> <p>Comprehensive user manual for the PECRON E3600 LFP portable power station, detailing its features, specifications, operation, charging methods (AC, vehicle, solar), UPS function, expandable battery capabilities, safety warnings, and disposal instructions.</p>



[Pecron E1000 PRO User Manual: Portable Power Station Guide](#)

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.