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pecron E300LFP+100W

PECRON E300LFP Portable Power Station User Manual

Model: E300LFP+100W | Brand: pecron

1. INTRODUCTION AND PRODUCT OVERVIEW

The PECRON E300LFP Portable Power Station is a versatile and reliable power solution designed for various applications, from outdoor adventures to emergency home backup. Featuring a 288Wh LiFePO4 battery and a 600W pure sine wave AC inverter, it provides stable and clean power for your devices. This manual provides essential information for safe and efficient operation.



Image: The PECRON E300LFP Portable Power Station shown alongside its accompanying 100W solar panel.

2. SAFETY INFORMATION

Always read and understand all safety instructions before using the power station. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Do not disassemble, repair, or modify the unit.
- Do not expose the unit to fire or high temperatures.
- Keep away from water, high humidity, and direct sunlight.
- Use only original or certified accessories.
- Ensure proper ventilation during use and charging.
- Keep out of reach of children and pets.

3. PACKAGE CONTENTS

Verify that all items are included in your package:

- PECRON E300LFP Portable Power Station
- 100W Solar Panel
- AC Charging Cable
- Car Charging Cable
- User Manual

4. PRODUCT OVERVIEW (PORTS AND CONTROLS)

Familiarize yourself with the various ports and controls on your E300LFP power station for optimal use.

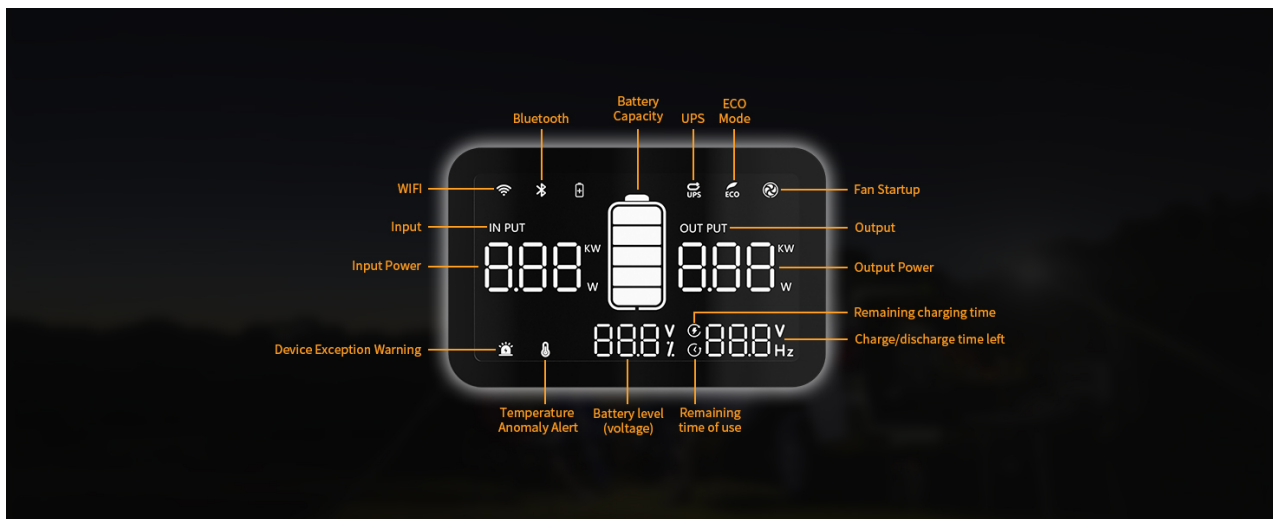


Image: Detailed diagram illustrating the LCD display, DC/AC output buttons, USB ports, and other indicators on the power station.

The power station features a clear LCD display showing battery level, input/output wattage, and remaining runtime. It includes multiple output options for diverse devices.

POWER ALL YOU NEED

9 Universal Outlets



2xAC Outlets



2xUSB-A



1x100W USB-C



1xDC5525 12V



1xDC5525 24V



1XCar Outlet



1xWireless Charge



Image: The power station highlighting its 9 universal outlets, including 2x AC, 2x USB-A, 1x 100W USB-C, 1x DC5525 12V, 1x DC5525 24V, 1x Car Outlet, and 1x Wireless Charge pad.

5. CHARGING THE POWER STATION

The E300LFP offers multiple convenient ways to recharge its internal battery.

4 WAYS TO FAST CHARGER



AC Charge
1.5Hrs



USB-C Charge
3Hrs



Solar Charge
3Hrs



Car Charge
3Hrs



Image: Visual representation of the four fast charging methods: AC Charge (1.5 Hrs), USB-C Charge (3 Hrs), Solar Charge (3 Hrs), and Car Charge (3 Hrs).

- **AC Wall Charging:** Plug the included AC charging cable into a standard wall outlet. The power station supports fast charging, reaching 80% in 60 minutes and 100% in 80 minutes.
- **Solar Charging:** Connect the 100W solar panel to the DC input port. The power station efficiently converts sunlight into usable electricity.
- **Car Charging:** Use the included car charging cable to recharge the unit from your vehicle's 12V outlet.
- **USB-C Charging:** The USB-C port also supports input charging.



Image: The power station plugged into a wall outlet for AC charging.



Image: The power station connected to a solar panel, demonstrating its solar charging capability in an outdoor environment.

6. OPERATING THE POWER STATION

The E300LFP is designed for ease of use, providing power to multiple devices simultaneously.

SIMULTANEOUS CHARGING OF MULTIPLE DEVICES



Image: The power station simultaneously charging a laptop, smartphone, power bank, and drone, showcasing its multi-device charging capability.

- **Turning On/Off:** Press and hold the main power button to turn the unit on or off.
- **AC/DC/USB Output:** Press the respective AC ON/OFF or DC ON/OFF buttons to activate the outlets. The unit features 2x AC outlets, 2x USB-A ports, and 1x 100W USB-C port.
- **Wireless Charging:** Place your compatible device on the wireless charging pad located on top of the unit.
- **Built-in Flashlight:** The unit includes a multi-function LED light with SOS mode for emergencies.

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Video: Official PECRON product video demonstrating the power station's features, including its compact size, quiet operation, multiple charging options, and built-in flashlight.

7. APPLICATIONS AND USAGE SCENARIOS

The PECRON E300LFP is designed for various uses, providing reliable power wherever you need it.



Laptop(60Wh)

4 Times



Light(10W)

24 Hours



Mini Fridge(60W)

4 Hours



CPAP(40W)

6 Hours

Image: The power station being used in the trunk of a car, demonstrating its ability to power a laptop for 4 times, a light for 24 hours, a mini-fridge for 4 hours, and a CPAP machine for 6 hours.

- **Outdoor Adventures:** Ideal for camping, RV trips, and tailgating, powering lights, mini-fridges, and portable electronics.
- **Home Backup:** Provides essential power during outages for small appliances, lights, and communication devices.

- **Off-Grid Living:** A sustainable power source when combined with the solar panel for remote cabins or emergency situations.
- **Work & Hobbies:** Power laptops, cameras, drones, and other tools on the go.



Image: A person carrying the compact PECRON E300LFP, emphasizing its portability for various activities.

8. APP CONTROL

Control your PECRON E300LFP remotely with the dedicated mobile app, available for both iOS and Android devices.

LiFePO4 Battery

Last 6X Longer



3500+ Cycles

After 3500+ cycles, the LFP battery remains around 80% of its original capacity and lasts 6-8 times longer than conventional ones.

Image: A smartphone displaying the PECRON app interface, showing battery status, input/output, and settings for easier energy consumption control.

- Monitor battery status and remaining runtime.
- Control AC/DC/USB outputs remotely.
- Adjust charging rates and set auto-sleep times.
- Access device user manual and alarm records.

The E300LFP utilizes advanced LiFePO4 (Lithium Iron Phosphate) battery technology, offering superior longevity and safety compared to traditional lithium-ion batteries.

APP REMOTE CONTROL

Easier control at your fingertips

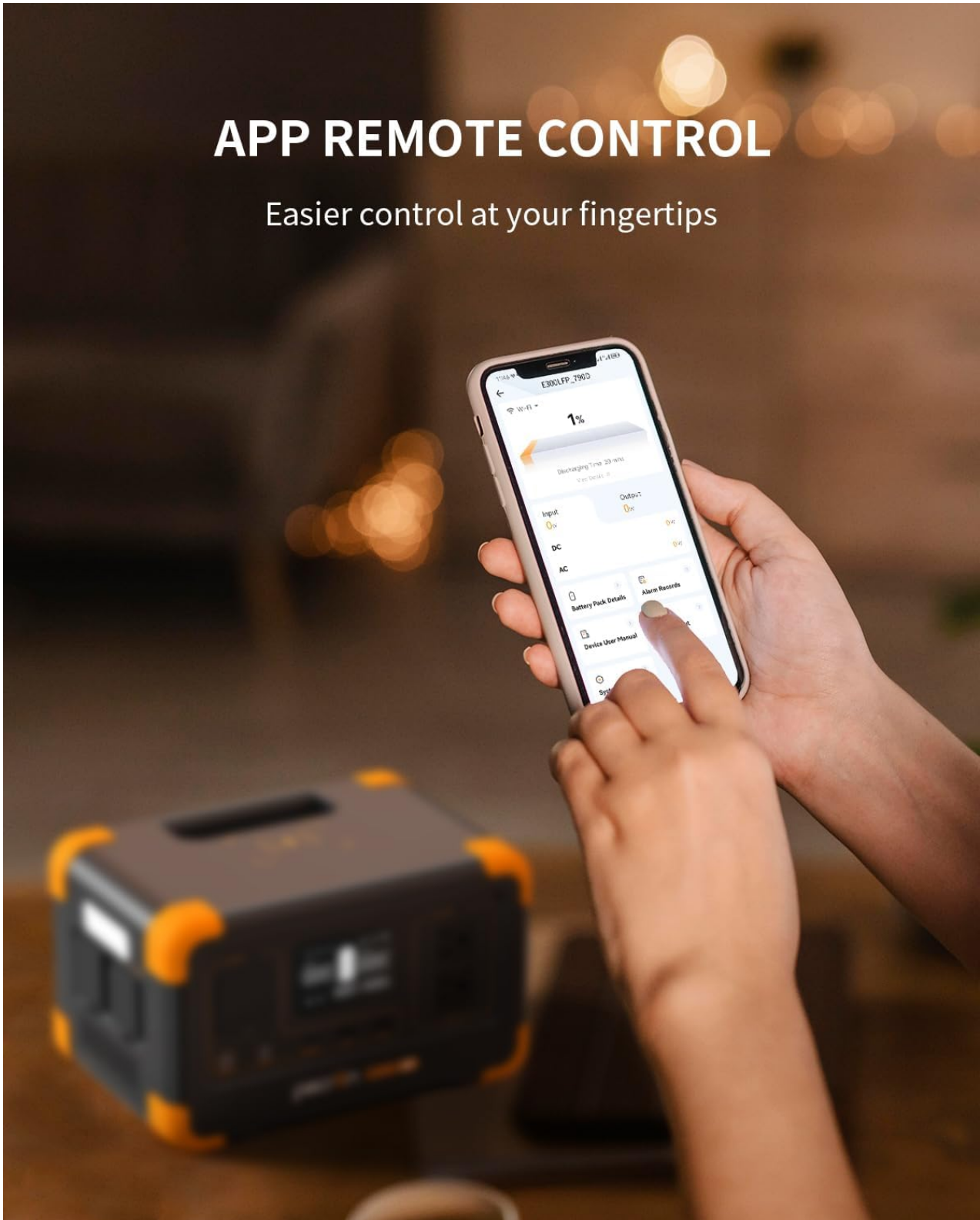
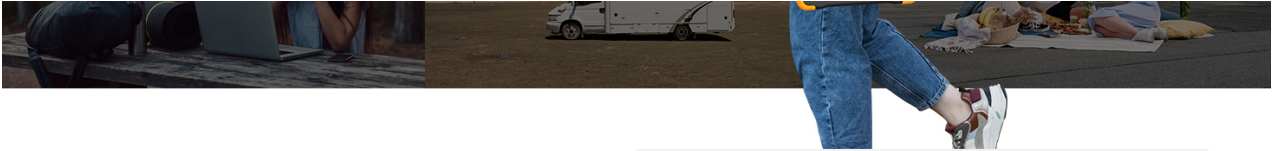


Image: An internal view of the power station highlighting its LiFePO4 battery cells, emphasizing their durability and long cycle life (3500+ cycles to 80% capacity).

- **Longer Lifespan:** LiFePO4 batteries last 6-8 times longer than conventional ones, maintaining 80% of original capacity after 3500+ cycles.
- **Enhanced Safety:** More stable chemistry reduces the risk of overheating or combustion.
- **Improved Performance:** Consistent power output even under heavy loads.

10. MAINTENANCE AND STORAGE

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



How to store PECRON E300 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.



Image: Instructions for storing the PECRON E300LFP, emphasizing turning off the unit, storing in a dry, ventilated place, and recharging for long-term storage.

- Turn off the unit and 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 battery life.
- Avoid extreme temperatures and direct sunlight during storage.
- Keep the unit clean and free from dust.

11. TROUBLESHOOTING

If you encounter any issues with your PECRON E300LFP, refer to the following common troubleshooting tips:

- **Unit Not Turning On:** Ensure the battery is charged. If not, connect to a power source.
- **No Output from Ports:** Make sure the specific AC/DC/USB output is activated by pressing its respective button.
- **Overload Protection:** If an overload occurs, the unit will shut down. Disconnect the device causing the overload and restart the power station.
- **Fan Noise:** The internal fan will activate automatically to cool the unit during heavy use or charging. This is normal operation.
- **Battery Gauge Uncalibrated:** Fully drain the unit, then fully charge it and leave it plugged in for about 3 hours after full charge to recalibrate.

12. SPECIFICATIONS

Feature	Specification
Model Name	E300LFP+100W
Battery Capacity	288Wh

Feature	Specification
Battery Type	LiFePO4 (3500+ cycles to 80%)
AC Output	600W Pure Sine Wave (120V)
USB-C Output	1x 100W
USB-A Output	2x 18W
DC Output	1x 12V/10A (Cigar Port), 1x 12V/5A, 1x 24V/5A
Wireless Charging	15W Max
AC Charge Time	80% in 60 mins, 100% in 80 mins
Solar Input	100W Max (12-28VDC)
Dimensions	10"L x 6.8"W x 6.1"H
Item Weight	11.6 Pounds
Special Features	Portable, Quiet, Multiple Outlets, UPS Function

13. WARRANTY AND SUPPORT

PECRON offers a comprehensive warranty for the E300LFP Portable Power Station. For detailed warranty information, please refer to the user manual included in your package or visit the official PECRON website. For technical support, troubleshooting, or any inquiries, please contact PECRON customer service:

- **Website:** www.pecron.com
- **Email:** support@pecron.com






You can also visit the [pecron Store on Amazon](#) for more products and information.

Related Documents - E300LFP+100W



[PECRON E600 LFP Portable Power Station User Manual](#)

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>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>
	<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 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 E1500 LFP Portable Power Station User Manual</p> <p>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.</p>