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pecron E3600LFP

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1. INTRODUCTION

The pecron E3600LFP is a high-capacity portable power station designed to provide reliable power for various applications, from home backup to outdoor adventures. Featuring a durable LiFePO4 battery, a powerful AC inverter, and multiple charging and output options, this unit ensures you have access to electricity whenever and wherever you need it. This manual provides essential information for the safe and efficient operation of your E3600LFP power station.

2. PRODUCT OVERVIEW

The E3600LFP main unit boasts a 3072Wh capacity and a 3600W pure sine wave AC output, expandable up to 15360Wh with additional EP3000-48V extended batteries. It features a robust LiFePO4 battery with over 3500 charge cycles to 80% capacity, ensuring long-term reliability. The unit operates quietly, with sound levels below 50dB, and includes a built-in Battery Management System (BMS) for protection against short circuits, overload, and overheating. It also offers Uninterruptible Power Supply (UPS) functionality with fast switching within 8-20ms.

2.1. Ports and Display

- **DC Input:** Two XT60 ports (32V-150V, 1200W Max each, 2400W total) for high-speed solar charging, and one 12-30V, 150W Max port for smaller solar panels or car charging.
- **AC Input:** A dedicated 30A AC input port (100Vac-120Vac) supports fast charging up to 3200W.
- **AC Output:** Five 3600W AC outlets, including four 20A standard outlets and one TT30-R 30A RV outlet.
- **DC Output:** Includes a 12V-30A port, a 12V-5A barrel port, and a 12V-10A cigarette lighter socket.
- **USB Output:** Two 100W USB-C ports and four 18W USB-A ports for charging various smart devices.
- **Wireless Charging:** Two wireless charging pads are located on the top of the unit.
- **Expansion Ports:** Two dedicated ports for connecting EP3000-48V extended batteries.
- **Display:** An IPS high-definition touchable display provides real-time information on battery status, input/output wattage, temperature, and system settings. It also features a 'Simple Mode' for streamlined operation.



Figure 1: pecron E3600LFP Portable Power Station with three extended batteries. The main unit features a central display and various input/output ports, while the extended batteries stack below, connected via specialized cables.

16 OUTPUT OPTIONS

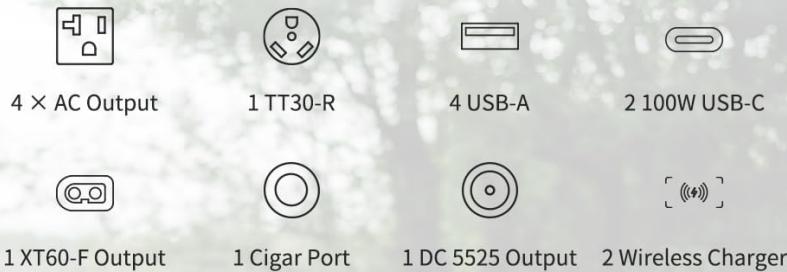


Figure 2: The E3600LFP power station showcasing its 16 output options, including AC, USB-A, USB-C, XT60-F, and a cigarette lighter port, providing versatile connectivity for various devices.

3. WHAT'S IN THE BOX

Your pecron E3600LFP package includes the following items:

- pecron E3600LFP Main Unit
- EP3000-48V Extension Battery (x3 for this variant)
- 15A AC Charging Cable
- 30A AC Charging Cable (for 3200W max charging)
- Single Port XT60 to MC4 Solar Charging Cable
- Parallel Dual Port XT60 to MC4 Solar Charging Cable
- Car Charging Cable (12V socket adapter)
- Slotted Screwdriver (for battery numbering adjustment)
- Accessory Pouch
- User Instruction Manual

- Extra Battery Connection Cable (flexible, 90-degree connectors)
- MC4 Cable (for separate charging of extended battery)
- 12V Plug (for separate charging of extended battery)
- Anderson Cable (for charging extended battery up to 30A)
- 5521 Barrel Port Cable (for charging extended battery separately)
- 12V Socket and 5521 Barrel Port Cables (for charging devices from extended battery)
- Jumper Cables (for charging a battery from extended battery)
- Connection Hardware (for securing batteries)
- Battery Numbering Stickers & Glow-in-the-Dark Stickers (for AC/DC buttons)

Video 1: Unboxing and accessory overview. This video demonstrates the various cables and accessories included with the pecron E3600LFP, highlighting their uses for charging and connectivity.

4. SETUP

4.1. Initial Charging

Before first use, fully charge your E3600LFP power station using one of the following methods:

- **AC Wall Outlet:** Connect the provided AC charging cable to the AC input port and a wall outlet. The unit supports up to 3200W fast charging, reaching full capacity in approximately 1.3 hours.
- **Solar Panels:** Connect compatible solar panels to the XT60 DC input ports using the provided MC4 cables. The unit supports up to 2400W solar input, allowing a full charge in about 1.5 hours with 8x300W solar panels.
- **Car Charger:** Use the car charging cable to charge the unit from your vehicle's 12V cigarette lighter socket.

4.2. Connecting Extended Batteries

To expand the capacity of your E3600LFP, connect the EP3000-48V extended batteries using the specialized connection cables. The flexible 90-degree connectors allow for various stacking configurations, optimizing space. Ensure the battery numbering is correctly adjusted using the provided screwdriver and stickers for proper communication between units.

EXPANDABLE UP TO 15360Wh MAX

Say Goodbye to The Low Battery



Figure 3: Visual representation of the E3600LFP's expandable capacity, showing how multiple EP3000 extended batteries can be connected to increase total Wh, up to 15360Wh.

4.3. App Setup

Download the pecron app from your smartphone's app store. Register an account and follow the in-app instructions to connect your E3600LFP via Wi-Fi or Bluetooth. The app allows for remote control, monitoring of power levels, and customized charging settings.

APP SMART CONTROL



Wi-Fi & Bluetooth



View Power Level



Customized Charging Power



Figure 4: The pecron E3600LFP power station demonstrating its smart control capabilities via a mobile app, allowing users to view power levels and customize settings remotely.

5. OPERATING INSTRUCTIONS

5.1. Turning On/Off Outputs

Press the 'DC ON/OFF' or 'AC ON/OFF' buttons on the unit's display or use the mobile app to activate or deactivate the respective output sections. The display will show the current status and power draw.

5.2. Monitoring and Settings

The touchable display provides comprehensive information. Navigate through menus to check battery health, input/output settings, and system preferences. You can switch between Celsius and Fahrenheit for temperature readings. The 'Simple Mode' offers a simplified view of essential data.

5.3. UPS Functionality

When connected to an AC power source, the E3600LFP can function as an Uninterruptible Power Supply (UPS). In case of a power outage, it automatically switches to battery power within 8-20 milliseconds, ensuring continuous operation for connected devices.

5.4. Charging and Discharging Simultaneously

The E3600LFP supports pass-through charging, allowing you to charge the power station while simultaneously powering devices. This is particularly useful for maintaining power during grid outages or when using solar input to power loads directly.



Figure 5: The E3600LFP power station in an outdoor setting, powering multiple devices like a phone, laptop, and projector, demonstrating its versatility for camping and emergency use.

6. EXPANSION

The E3600LFP is designed for modular expansion with EP3000-48V extended batteries. Each extended battery has its own DC outputs (12V-30A, USB-C, USB-A) and a 12-95V, 400W DC input for solar charging, allowing it to function as an independent power source. This unique feature provides redundancy and flexibility, ensuring power availability even if the main unit is not in use or fails.

6.1. Stacking Configurations

The extended batteries can be stacked in various configurations (e.g., one behind, three behind) and connected to the main

unit using the flexible 90-degree connection cables. This design minimizes space requirements and allows for customized setups.



Figure 6: Two E3600LFP units connected via a dual voltage hub to provide 7200W 240V AC output, suitable for powering larger appliances or entire homes.

3 WAYS TO CHARGE



Figure 7: The pecron E3600LFP and extended batteries neatly installed in an RV storage compartment, demonstrating a compact and powerful mobile energy solution.

7. MAINTENANCE

To ensure the longevity and optimal performance of your pecron E3600LFP, follow these maintenance guidelines:

- Keep the unit clean and free from dust and debris.
- Store in a cool, dry place away from direct sunlight and extreme temperatures.
- Regularly check the battery health status via the display or app.
- Ensure all ports are covered when not in use to prevent dust and moisture ingress.
- Periodically check for firmware updates to ensure optimal performance and address any known issues.

8. TROUBLESHOOTING

If you encounter any issues with your E3600LFP, refer to the detailed troubleshooting section in the included User Instruction Manual. Common issues and their solutions are typically covered there. For persistent problems, contact customer support.

8.1. Overload Protection

The unit is equipped with overload protection. If an output port is drawing too much power, the unit may shut down to prevent damage. Reduce the load and restart the output. A firmware update is recommended to address potential overload issues with the 12V socket output, which may allow excessive wattage for a short period.

8.2. RV AC Converter Loop

When using the power station to power an RV, ensure the RV's internal AC converter is turned OFF. Running the power station while the converter is on can create a charging loop, draining the power station's battery unnecessarily. Let your solar panels charge your RV batteries directly, not through the power station's AC output to the RV's converter.

9. SPECIFICATIONS

Feature	Specification
Brand	pecron
Model	E3600LFP
Capacity	3072Wh (Expandable to 15360Wh)
AC Output	3600W Pure Sine Wave (7000W Surge)
Battery Type	LiFePO4 (3500+ cycles to 80% capacity)
AC Charging	1800W (standard), 3200W (max) - Full charge in 1.3-2 hours
Solar Charging	2400W MPPT (max) - Full charge in 1.5 hours (with 8x300W panels)
DC Input (XT60)	32V-150V, 1200W Max x2
DC Input (Barrel)	12-30V, 150W Max
AC Outlets	4x 20A, 1x TT30-R (30A RV)
DC Output	1x 12V-30A, 1x 12V-5A, 1x 12V-10A
USB-C Output	2x 100W
USB-A Output	4x 18W
Wireless Charging	2x Pads
UPS Switching Time	8-20ms
Weight (Main Unit)	79 Pounds
Weight (Extended Battery)	57 Pounds
Special Features	Portable, Fast Charging, Large Capacity, Long Last, Safety, Smart Control, UPS

10. WARRANTY AND SUPPORT

The pecron E3600LFP comes with a 2+3 years worry-free warranty. For any questions, technical assistance, or warranty claims, please contact pecron customer service. Register your product within 30 days of purchase to activate your extended warranty.

- **Warranty Period:** 2 years standard, plus 3 years extended upon registration.

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