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> PECRON Portable Power Station F3000LFP with Cart Kit Instruction Manual

pecron F3000LFP

PECRON Portable Power Station F3000LFP with Cart Kit Instruction Manual

Model: F3000LFP

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your PECRON Portable Power Station F3000LFP. Please read this manual thoroughly before using the device to ensure proper handling, optimal performance, and to prevent damage or injury. Keep this manual for future reference.

2. SAFETY INSTRUCTIONS

Observe the following safety precautions to prevent electric shock, fire, or damage to the unit:

- Do not disassemble, repair, or modify the unit. Incorrect reassembly may cause fire or electric shock.
- Do not place the unit near heat sources or in direct sunlight.
- Do not operate the unit in wet conditions or immerse it in water.
- Use only original or certified accessories.
- Keep the unit away from children and pets.
- Ensure proper ventilation during use and charging. Do not block ventilation openings.
- In case of fire, use a dry powder fire extinguisher. Water may cause electric shock.
- Avoid dropping or subjecting the unit to strong impacts.

3. PACKAGE CONTENTS

Verify that all items are included in your package:

- PECRON F3000LFP Power Station
- Trolley (Cart Kit)
- AC Charging Cable
- User Manual

Note: The cart and power station may be delivered separately.

4. PRODUCT OVERVIEW

The PECRON F3000LFP is a portable power station designed for various applications, including home backup, RV use, and off-grid living. It features a 3072Wh LiFePO4 battery and a 3600W pure sine wave AC output.



Image: PECRON F3000LFP Portable Power Station with its included cart kit, showcasing its robust design and portability.

4.1. Ports and Interface

The F3000LFP is equipped with multiple output ports to power a wide range of devices:

- **6 x AC Ports:** For large electrical appliances.
- **1 x USB-C Port (100W, 18W):** For fast charging laptops and drones.
- **2 x 18W USB-A Ports:** For standard USB device charging.
- **1 x Car Charging Port:** For 12V DC devices.
- **2 x DC5525 Ports:** For various DC applications.

Provide a stable current for all your devices



Image: Close-up view of the PECRON F3000LFP's output panel, highlighting the various AC, USB, and DC ports, including the 30A output.

4.2. Key Features

- **High Capacity:** 3072Wh LiFePO4 battery.
- **Powerful Output:** 3600W pure sine wave AC output.
- **Fast Charging:** 1800W AC input for 2-hour full charge.
- **Expandable:** Capacity can be expanded to 10752Wh with two EP3800-48V batteries (sold separately).
- **UPS Functionality:** 8-20ms Uninterruptible Power Supply for critical devices like CPAP machines and computers.
- **App Control:** Monitor power consumption, remotely control devices, and customize charging/discharging strategies via a mobile application.
- **Durable Battery:** LiFePO4 battery retains 80% capacity after over 3,500 cycles.



Image: The PECRON F3000LFP Power Station in a home setting, demonstrating its use as a reliable backup power source for household appliances.

Video: An official overview of the F3000LFP 3072Wh 3600W Power Station, detailing its features and capabilities.

5. SETUP

Before initial use, ensure the power station is fully charged. If your package includes a cart kit, assemble it according to the separate instructions provided with the cart.

5.1. Initial Charge

Connect the power station to a standard AC wall outlet using the provided AC charging cable. The display will indicate charging status. A full charge from 0% takes approximately 2 hours.

5.2. Cart Assembly (if applicable)

Refer to the separate assembly instructions for the trolley. Once assembled, securely place the F3000LFP power station onto the cart for enhanced portability.



Image: The PECRON F3000LFP Power Station securely mounted on its trolley, ready for transport.

6. CHARGING THE POWER STATION

The F3000LFP offers multiple charging options:

6.1. AC Wall Charging

Connect the AC charging cable to the input port on the power station and then to a standard wall outlet. The 1800W fast charging allows for a 0-100% charge in approximately 2 hours.



Image: The PECRON F3000LFP Power Station connected to a wall outlet, illustrating its fast AC charging capability.

6.2. Solar Charging

The F3000LFP supports up to 1600W solar input. Connect compatible solar panels (e.g., PECRON 200W/300W solar panels) to the solar input port. Ensure panels are positioned for maximum sunlight exposure.



Image: The PECRON F3000LFP Power Station connected to solar panels in an outdoor setting, demonstrating solar charging.



Image: A visual representation of the PECRON F3000LFP Power Station paired with a 300W solar panel for charging.

6.3. Car Charging

Use a compatible 500W smart car charger (sold separately) to charge the power station from your vehicle's 12V outlet.

7. OPERATION

Follow these steps to operate your F3000LFP Power Station:

7.1. Powering On/Off

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

7.2. Using AC Outputs

Press the AC button to enable the AC outlets. Plug your devices into the desired AC ports. Ensure the total wattage of connected devices does not exceed 3600W.

Video: An official video demonstrating the functions and features of the F3000LFP power station.

7.3. Using DC and USB Outputs

Press the DC button to enable the DC and USB ports. Connect your USB-C, USB-A, car charging, or DC5525 devices.

7.4. UPS Functionality

The F3000LFP features an 8-20ms Uninterruptible Power Supply (UPS). When connected to an AC power source and devices are plugged into the AC outputs, the unit can automatically switch to battery power during an outage, providing continuous power to sensitive electronics like CPAP machines and computers.



Image: The PECRON F3000LFP Power Station providing emergency power during an outage, highlighting its UPS capability.

7.5. App Control

Download the PECRON app to monitor power consumption, remotely start and stop devices, and customize charging/discharging strategies. This can optimize power usage efficiency.

8. MAINTENANCE

Proper maintenance ensures the longevity and performance of your power station:

- **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.
- **Cleaning:** Use a dry, soft cloth to clean the exterior of the unit. Do not use abrasive cleaners or solvents.
- **Ventilation:** Regularly check that the ventilation openings are clear of dust and debris to ensure proper heat dissipation.
- **Battery Care:** Avoid fully discharging the battery frequently to prolong its lifespan.

9. TROUBLESHOOTING

If you encounter issues with your F3000LFP, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Unit does not power on	Battery is depleted; Power button not pressed correctly	Charge the unit; Press and hold the power button for 3 seconds
AC output not working	AC output not enabled; Overload protection activated	Press the AC button; Reduce connected load, restart unit
Slow charging	Using a low-power charger; Solar panels not optimally positioned	Use the provided 1800W AC charger; Adjust solar panel angle/position
Display not working	Unit is off; Display error	Power on the unit; Contact customer support if issue persists

If the problem persists after attempting these solutions, please contact PECRON customer support.

10. SPECIFICATIONS

Detailed technical specifications for the PECRON F3000LFP Power Station:

Feature	Detail
Model Name	F3000LFP
Battery Capacity	3072Wh LiFePO4
AC Output	3600W (Pure Sine Wave)
AC Input (Charging)	1800W (Fast Charging)
Solar Input	Max 1600W
UPS Function	8-20ms Switching Time
USB-C Output	100W, 18W
USB-A Output	2 x 18W
Car Charging Port	12V DC
DC5525 Output	2 ports
Dimensions (L x W x H)	19.3" x 11.6" x 13.1"
Weight	Refer to product packaging for exact weight

11. WARRANTY AND SUPPORT

Your PECRON F3000LFP Power Station comes with a comprehensive warranty to ensure your peace of mind.

11.1. Warranty Information

The product includes a **2+3 Years Warranty**. Please retain your proof of purchase for warranty claims. For detailed terms and conditions, refer to the warranty card included in your package or visit the official PECRON website.

11.2. Customer Support

For technical assistance, troubleshooting, or warranty inquiries, please contact PECRON customer support through the following channels:

- **Official Website:** Visit the PECRON website for FAQs, support resources, and contact forms.
- **Email Support:** Refer to your product packaging or the official website for the customer support email address.
- **Online Chat:** Some regions may offer online chat support via the PECRON website.

When contacting support, please have your product model number (F3000LFP) and purchase date readily available.