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> PECRON F5000LFP Power Station User Manual

pecron F5000LFP

PECRON F5000LFP Power Station User Manual

Model: F5000LFP | Brand: pecron

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your PECRON F5000LFP Power Station. The F5000LFP is a high-capacity solar generator designed to provide reliable power for various applications, including emergency home backup, RV use, and off-grid power needs. It features a 5120Wh LiFePO4 battery, 7200W AC output, and supports dual voltage (120V/240V).

2. SAFETY INFORMATION

Please read and understand all safety instructions before operating the PECRON F5000LFP Power Station. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Do not expose to water or moisture:** Keep the power station away from rain, splashes, or submersion.
- **Operate in well-ventilated areas:** Ensure adequate airflow around the unit to prevent overheating.
- **Avoid extreme temperatures:** Do not operate or store the unit in excessively hot or cold environments. Refer to specifications for operating temperature ranges.
- **Do not disassemble:** Unauthorized disassembly voids the warranty and may cause damage or injury. Contact customer support for service.
- **Keep away from children and pets:** Store the unit in a secure location.
- **Use only approved accessories:** Use only PECRON-approved charging cables, solar panels, and expansion batteries.
- **Proper disposal:** Dispose of the battery and unit according to local regulations. Do not dispose of in household waste.

3. PACKAGE CONTENTS

Verify that all items are present upon unpacking:

- 1x PECRON F5000LFP Power Station
- User Manual
- AC Charging Cable

- Detachable Cart (pre-installed or separate assembly required)

Note: If your purchase included solar panels or extra batteries, these items may be shipped separately.

4. PRODUCT FEATURES

- **High Capacity:** 5120Wh LiFePO4 battery.
- **Powerful AC Output:** Up to 7200W AC output with 120V/240V dual voltage support.
- **Rapid Solar Charging:** Supports up to 6400W total solar input.
- **Uninterruptible Power Supply (UPS):** Features 0ms online UPS outlets (two 20A, one 30A) for critical devices.
- **Versatile Outputs:** 12 output ports including AC, DC (12-40V adjustable 5525 and XT-60), USB-A (18W), and USB-C (100W).
- **Low Noise Operation:** Operates at a low noise level of 30dB, ideal for quiet environments.
- **Portability:** Equipped with a detachable cart for easy movement.
- **Battery Heating Function:** Ensures optimal performance in cold environments.
- **Expandable Capacity:** Can be expanded up to 35.8kWh by connecting up to 6 FP5000-48V extra batteries.
- **Long Lifespan:** Retains 80% capacity after 4000 full charge cycles.
- **Smart App Control:** Monitor battery status, customize charging, and manage automation via a dedicated mobile application.

5. SETUP

5.1 Unpacking and Inspection

Carefully remove the power station from its packaging. Inspect the unit for any signs of damage during transit. If damage is found, contact customer support immediately.

5.2 Initial Charging

Before first use, fully charge the F5000LFP Power Station. Connect the included AC charging cable to the AC input port on the unit and then to a standard wall outlet. The display will indicate charging status. A full charge typically takes approximately 1.5 hours via AC.

5.3 Detachable Cart Assembly

If the detachable cart is not pre-installed, attach the caster wheels and frame to the base of the power station according to the diagrams provided in the separate cart assembly guide (if applicable). Ensure all connections are secure for safe transport.

Easy to move for Better Use

Caster Wheel Cart / Detachable Connection



Image: The PECRON F5000LFP Power Station shown with its detachable cart, illustrating its portability. The cart allows for easy movement of the unit.

5.4 Expanding Capacity (Optional)

The F5000LFP can be expanded by connecting FP5000-48V extra batteries. Follow the instructions provided with the expansion batteries for proper connection. Ensure the power station is turned off before connecting or disconnecting any expansion units. The system can be expanded up to 35.8kWh with 6 FP5000-48V batteries.

5120Wh Enormous Capacity

With 6 FP5000-48V Can Expandable to 35.8kWh



Image: The F5000LFP Power Station with multiple FP5000-48V batteries stacked, demonstrating how the system can be expanded to achieve higher energy capacities like 35.8kWh or 25.6kWh.

6. OPERATING INSTRUCTIONS

6.1 Powering On/Off

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

6.2 Using AC Outputs

The F5000LFP provides five 3600W AC outlets and one 7200W AC outlet, supporting both 120V and 240V. Press the AC output button to activate the AC ports. Connect your appliances to the appropriate outlets. Ensure the total wattage of connected devices does not exceed the unit's maximum output capacity.



Image: The F5000LFP Power Station in a kitchen setting, powering a refrigerator. Labels indicate 120V input and 240V output, highlighting its dual voltage and high AC output capabilities.

6.3 Using DC and USB Outputs

Press the DC output button to activate the DC and USB ports. The unit features two 18W USB-A ports, one 100W USB-C port, a 12-40V adjustable 5525 port, and an XT-60 port. These ports are suitable for charging mobile devices, laptops, and other DC-powered equipment. The adjustable 5525 and XT-60 ports allow for voltage and current customization to adapt to various devices.

12 Versatile Outlets for Your Device

12-40V Adjustable 5525 and XT60 Port

1 5525 Port
(12-40V)

1 XT60
(12-40V)

2 USB-C
(100W)

2 USB-A
(18W)

2 20A
Online UPS

1 30A
Online UPS

2 20A
Backup UPS

1 (MAX 7200W)
AC Output



Image: A close-up view of the F5000LFP's front panel, detailing the various output ports available: 5525 (12-40V), XT60 (12-40V), USB-C (100W), USB-A (18W), 20A Online UPS, 30A Online UPS, and AC outputs.

6.4 Uninterruptible Power Supply (UPS) Mode

The F5000LFP includes two 20A and one 30A 0ms online UPS outlets. When connected to grid power, the unit can act as an online UPS, providing seamless power transfer to connected devices during a power outage. This ensures continuous operation for sensitive electronics like computers, Wi-Fi routers, and medical equipment (e.g., CPAP machines).



Image: The F5000LFP Power Station positioned next to a desk, illustrating its 0ms 30A online UPS capability, providing reliable backup for devices such as computers and Wi-Fi.

6.5 Battery Heating Function

For optimal performance in cold weather, the F5000LFP features a battery heating function. This function helps maintain the battery's temperature within its ideal operating range, ensuring efficient charging and discharging even in sub-zero conditions. Activate this feature via the unit's display or the smart app.

7. CHARGING METHODS

The F5000LFP supports multiple charging methods, which can be combined for faster recharging.

- **AC Charging:** Connect the power station to a standard wall outlet using the provided AC charging cable. The unit supports up to 3600W AC input.
- **Solar Charging:** Connect compatible solar panels to the two solar charging ports. The F5000LFP supports a maximum total solar input of 6400W (25A per port). This allows for building a sustainable home energy system.
- **Generator Charging:** The unit can be charged using a compatible generator. Ensure the generator's output voltage

and frequency are within the F5000LFP's input specifications (40-70Hz).

- **Car Charging:** A 500W car charger (sold separately) can be used to charge the F5000LFP from a vehicle's 12V outlet.

6400W Solar Charging Power

Four Charging Ways for Unit

			
AC Charging	Solar Charging	1C Fast Charging	Generator Charging
0-80% in	0-100% in	0-80% in	0-80% in
1.5 Hrs	70 Mins	1 Hrs	90 Mins

Image: The F5000LFP Power Station placed outdoors with two large solar panels, illustrating its 6400W solar charging capability and various charging methods including AC, solar, 1C fast charging, and generator charging.

8. SMART APP CONTROL

Download the PECRON smart app to unlock advanced control and monitoring features for your F5000LFP Power Station.

- **Real-time Monitoring:** View battery status, input/output wattage, and remaining runtime.
- **Customizable Charging:** Set charging schedules to utilize off-peak electricity rates or prioritize solar charging to maximize clean energy use and reduce electricity bills.
- **Automation Features:** Create custom power usage plans, such as setting the unit to start charging when power drops below a certain percentage or adjusting AC charging speed based on battery level.
- **Software Updates:** Receive over-the-air (OTA) updates to enhance functionality and performance.
- **Power Usage Statistics:** Track historical power consumption and generation data.

- **Equipment Records:** Access detailed records of the unit's operation and events.
- **Memory Output:** The unit can automatically resume previous output settings after being restored.



Image: A user interacting with the PECRON smart app on a smartphone, demonstrating easy control and monitoring of the power station's functions, including battery condition, charging plans, and software updates.

9. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your F5000LFP Power Station.

- **Cleaning:** Use a dry, soft cloth to clean the exterior of the unit. Do not use liquid cleaners or solvents.
- **Storage:** When not in use for extended periods, store the power station in a dry, cool place, away from direct sunlight and extreme temperatures. It is recommended to charge the unit to 50-80% every 3-6 months to maintain battery health.
- **Battery Health:** The LiFePO4 battery is designed for over 4000 cycles to 80% capacity. Avoid consistently fully discharging the battery to prolong its lifespan.
- **Ventilation:** Ensure the ventilation openings are clear of dust and debris to prevent overheating.

10. TROUBLESHOOTING

If you encounter issues with your F5000LFP Power Station, refer to the following common troubleshooting steps:

- **Unit Not Turning On:**
 - Ensure the battery is not completely depleted. Connect to an AC outlet for charging.
 - Press and hold the main power button firmly for several seconds.
- **No Output from Ports:**
 - Verify that the specific output (AC, DC, USB) is activated via its respective button.
 - Check if the connected device is within the power station's output limits. Overload protection may have been triggered.
 - Ensure cables are securely connected.
- **Charging Issues:**
 - For AC charging, ensure the cable is properly connected to a working wall outlet.
 - For solar charging, verify solar panel connections, ensure panels are in direct sunlight, and check for any shading. Confirm solar input wattage on the display.

- Check for error messages on the display or in the smart app.
- **Unusual Noise or Smell:**
 - Immediately turn off the unit and disconnect all power sources.
 - Contact customer support. Do not attempt to operate the unit.

If the problem persists after following these steps, please contact PECRON customer support.

11. SPECIFICATIONS

Feature	Specification
Brand	pecron
Model Name	F5000LFP
Battery Type	LiFePO4
Battery Capacity	5120Wh
AC Output Wattage	7200W (Running)
Voltage	120V/240V Dual Voltage
Max Solar Input	6400W
AC Input Wattage	3600W
DC Output (Total)	1000W
Output Ports	6 AC, 6 DC (including USB-A, USB-C, 5525, XT-60)
UPS Function	0ms Online UPS (20A, 30A)
Expandability	Up to 35.8kWh with FP5000-48V batteries
Noise Level	30dB (at 1500W or 1200W charging)
Item Weight	123.9 Pounds
Product Dimensions (L x W x H)	21.7" x 15" x 13.1"
Special Features	Overload Protection, Super Quiet, USB Port, Battery Heating

12. WARRANTY AND SUPPORT

12.1 Warranty Information

The PECRON F5000LFP Power Station comes with a **3+2 Year Warranty**. Please retain your proof of purchase for warranty claims. For detailed terms and conditions, refer to the warranty card included with your product or visit the official PECRON website.

12.2 Customer Support

For technical assistance, troubleshooting, or warranty inquiries, please contact PECRON Customer Support. Contact

information can typically be found on the PECRON website or on the product packaging.