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pecron EB3000-24V

pecron EB3000-24V 3072Wh Expansion Battery User Manual

Model: EB3000-24V | Brand: pecron

1. INTRODUCTION

The pecron EB3000-24V is a 3072Wh expansion battery designed to significantly increase the capacity of your pecron E2000LFP Portable Power Station. This unit provides additional power storage and features independent output ports for charging various devices. This manual provides essential information for the safe and efficient use of your EB3000-24V expansion battery.



Image 1: pecron EB3000-24V Expansion Battery

2. SAFETY INFORMATION

Please read and understand all safety instructions before operating the pecron EB3000-24V. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Do not disassemble, repair, or modify the unit.
- Keep the unit away from heat sources, direct sunlight, and flammable materials.
- Do not expose the unit to water or other liquids.
- Ensure proper ventilation during use and charging.
- Keep out of reach of children and pets.
- Use only approved accessories and cables.
- In case of fire, use a dry powder fire extinguisher. Water may cause electric shock.

3. PACKAGE CONTENTS

Verify that all items are included in your package:

- pecron EB3000-24V Expansion Battery
- Battery Expansion Cable
- Solar Charging Cable
- DC Output Cable
- Car Charging Cable
- 12V Alligator Clips
- User Manual



Image 2: Contents included with the pecron EB3000-24V

4. PRODUCT OVERVIEW

The pecron EB3000-24V is a robust expansion battery featuring a 3072Wh LiFePO4 battery. It is designed to integrate seamlessly with the pecron E2000LFP Portable Power Station, expanding its total capacity up to 8064Wh with two EB3000 units. The EB3000-24V also offers independent charging capabilities and multiple output ports for direct device charging.

4.1 Key Features

- **High Capacity:** 3072Wh LiFePO4 battery.
- **Expandable:** Increases E2000LFP capacity up to 8064Wh with two EB3000 units.
- **Versatile Outputs:** 100W USB-C, 12V/30A DC Output, and 18W USB-A ports.
- **Multiple Charging Options:** Can be charged independently via solar panels, AC, or car.
- **Durable and Safe:** Features an ultra-safe LiFePO4 battery with a built-in Battery Management System (BMS)

for protection against short circuits, overload, and overheating.

LiFePO4 BATTERY

3500+Life Cycles to 85%

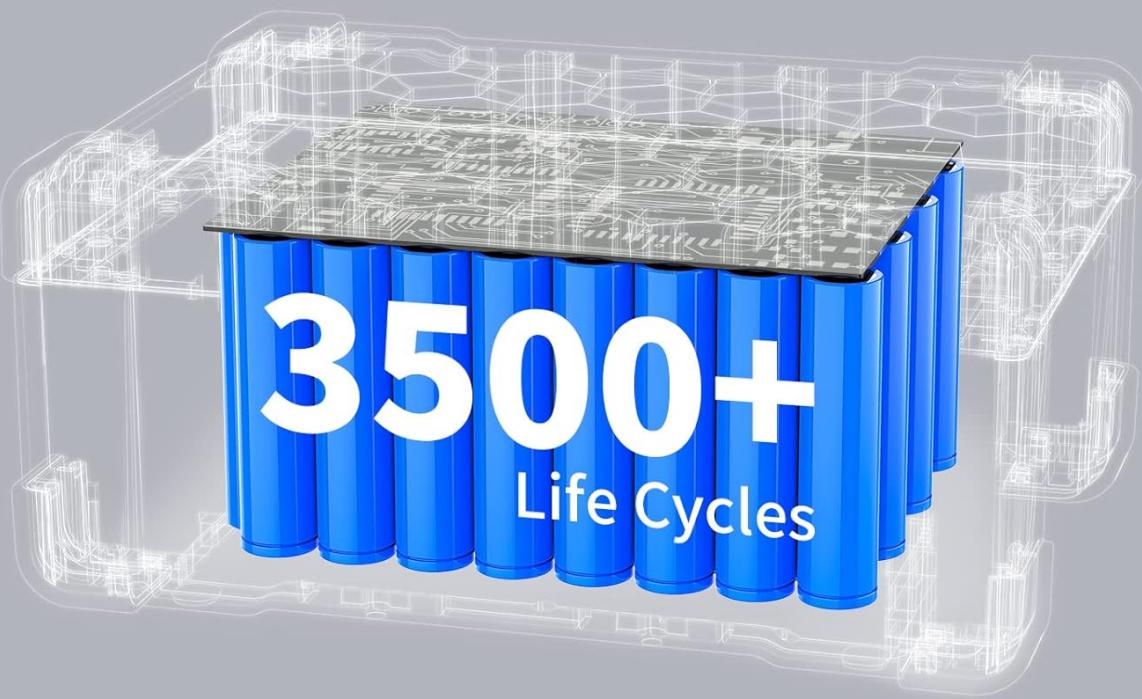


Image 3: LiFePO4 Battery Technology

Image 4: EB3000-24V expanding E2000LFP capacity

5. SETUP

5.1 Connecting to pecron E2000LFP

To expand the capacity of your E2000LFP, connect the EB3000-24V using the provided Battery Expansion Cable. Ensure both units are powered off before connecting.

1. Locate the expansion ports on both the E2000LFP and the EB3000-24V.
2. Carefully connect one end of the Battery Expansion Cable to the E2000LFP and the other end to the EB3000-24V.
3. Once connected, you can power on the E2000LFP. The system will recognize the additional battery capacity.

MODULAR POWER SUPPLY

Expand Your Power for Any Needs



Image 5: Modular Power Supply Expansion

UP TO 8064WH CAPACITY

E2000LFP + 2 x **EB3000**



Image 6: E2000LFP with two EB3000 units

Your browser does not support the video tag.

Video 1: Demonstrates connecting the pecron E2000LFP with EB3000 expansion batteries and various usage scenarios.

6. OPERATING INSTRUCTIONS

6.1 Charging the EB3000-24V

The EB3000-24V can be charged independently or when connected to the E2000LFP for faster charging.

6.1.1 AC Charging

Connect the AC charging cable to the EB3000-24V's AC input port and then to a standard wall outlet. The charging indicator will illuminate.

6.1.2 Solar Charging

Connect compatible solar panels (12V-95V range, 400W max input) to the EB3000-24V using the provided Solar

Charging Cable. The unit features a built-in MPPT controller for efficient solar charging. When connected to the E2000LFP, the combined system can achieve up to 1600W max solar input.



Image 7: Three Ways to Recharge

SOLAR CHARGING

- 400W Solar input Max
- 12V-95V Voltage Range
- Built-in MPPT Controller
- Connect with E2000LFP get 1600W Max Solar input



Image 8: Solar Charging Capabilities

6.1.3 Car Charging

Use the provided Car Charging Cable to charge the EB3000-24V from your vehicle's 12V auxiliary power outlet.

6.2 Using Output Ports

The EB3000-24V features multiple output ports for direct charging of devices, even when not connected to an E2000LFP.

- **100W USB-C Port:** For fast charging compatible laptops, smartphones, and other USB-C devices.
- **12V/30A DC Output:** Suitable for powering car refrigerators, air pumps, and other 12V DC appliances.
- **18W USB-A Port:** For charging standard USB devices.



Image 9: Independent Charging Capabilities

WHAT YOU CAN POWER WITH 8064WH



Microwave Oven(1300W)

5.3 Hrs



Refrigerator(300W)

22 Hrs



Washer(600W)

11 Hrs



Coffee Maker(1500W)

4.5 Hrs

Image 10: Powering various devices with 8064Wh capacity

7. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your EB3000-24V expansion battery.

- Storage:** Store the unit in a cool, dry place away from direct sunlight and extreme temperatures. For long-term storage, charge the battery to approximately 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:** Ensure the ventilation openings are clear of dust and debris to prevent overheating.
- Battery Health:** The LiFePO4 battery is designed for over 3500+ life cycles to 85% capacity. Avoid consistently draining the battery to 0% or charging to 100% if not immediately needed for optimal long-term health.

8. TROUBLESHOOTING

If you encounter issues with your EB3000-24V, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Unit not turning on	Battery is completely discharged.	Connect to an AC outlet for charging.
No output from ports	Output port not activated or device incompatible.	Ensure the specific output port is turned on. Verify device compatibility and cable connection.
Slow charging	Low input power or high ambient temperature.	Ensure the charging source meets specifications. Charge in a cooler environment. Connecting to E2000LFP can provide faster charging.
Overload warning	Connected device exceeds output limit.	Disconnect the device. Reduce the load or use a device within the specified power limits.

If the problem persists, please contact pecron customer service for assistance.

9. SPECIFICATIONS

Feature	Detail
Model Number	EB3000-24V
Battery Capacity	3072Wh
Battery Cell Composition	LiFePO4
Voltage	24 Volts (internal operating voltage)
Product Dimensions	16 x 10 x 11 inches
Item Weight	57 pounds
USB-C Output	100W
DC Output	12V/30A
USB-A Output	18W
Solar Input Max	400W (12V-95V)
Reusability	Rechargeable

10. WARRANTY AND SUPPORT

pecron warrants the EB3000-24V expansion battery for one year from the date of purchase. If the original purchaser registers their purchase within 30 days, the warranty is extended for an additional 1 year, totaling two years. The Accessory Pack, AC Power Cord, Solar Charging Cable, and Car Charger Cable are warranted for one year. For warranty claims, technical support, or any inquiries, please contact pecron customer service through their official website or the platform where the product was purchased. Please have your purchase receipt and product serial number ready.

