

EF ECOFLOW EF-DL-H10-4

EF ECOFLOW DELTA 3 Plus Solar Generator User Manual

Brand: EF ECOFLOW | Model: EF-DL-H10-4

INTRODUCTION

The EF ECOFLOW DELTA 3 Plus Solar Generator is a portable power station designed for versatile energy needs, from home backup to outdoor activities. It features a durable LiFePO4 (LFP) battery, high-efficiency solar input, and multiple fast-charging options.

Key Features:

- **5 Fast Charging Options:** Includes 1500W AC input (80% in 40 mins), 1000W solar input (80% in 1 hr, 100% in 70 mins), 800W Alternator charging (80% in 1 hr, 100% in 1.3 hrs), EcoFlow smart generator charging (80% in 40 mins, 100% in 56 mins), and Hybrid (AC + solar) charging (80% in 40 mins, 100% in 56 mins).
- **Durable and Reliable:** Powered by LiFePO4 (LFP) cells with 4000 cycles to 80% capacity, offering a 10-year lifespan for daily use.
- **IP65 Battery Pack:** Provides triple protection against splash, dust, and oil.
- **Adjustable and Versatile Solar Panel:** The 220W bifacial solar panel features a 30-60° adjustable angle bracket and an integrated solar angle guide for optimal energy capture.
- **High-Efficiency Solar Panel:** Utilizes N-Type solar technology for 25% conversion efficiency and dual-sided design for up to 28% more energy collection.
- **X-Boost Feature:** Allows the unit to power appliances up to 2700W by reducing voltage (use with caution for sensitive appliances).
- **UPS Functionality:** Provides uninterrupted power supply with a 10ms swap-over time, ideal for sensitive electronics during power outages.
- **Expandable Capacity:** Can be expanded up to 5kWh by adding DELTA 3, DELTA Pro 3, or DELTA 2 Max battery packs.



The EF ECOFLOW DELTA 3 Plus Solar Generator with accompanying solar panels.

Take Power Anywhere

Foldable panels and a lightweight battery for power on the go.

DELTA 3 Plus

8.0 x 15.7 x 11.2 in; 27 lb

220W NextGen Bifacial Solar Panel

24.2 x 23.2 x 1.3 in; 15.4 lb



Dimensions of the DELTA 3 Plus (8.0 x 15.7 x 11.2 inches; 27 lbs) and the 220W NextGen Bifacial Solar Panel (24.2 x 23.2 x 1.3 inches; 15.4 lbs).

SETUP

Before initial use, ensure your DELTA 3 Plus is fully charged. It is recommended to fully charge the unit upon receipt to optimize battery health.

Charging Options:

- **AC Charging:** Connect the provided AC Charging Cable to the AC input port on the rear of the unit and plug it into a standard wall outlet. The unit supports up to 1500W AC input for rapid charging.
- **Solar Charging:** Connect the 220W Bifacial Solar Panel to the solar input ports (two 15A max/500W per port) on the rear of the unit. Position the solar panel using its adjustable angle bracket (30-60°) and integrated solar angle guide to maximize sunlight exposure. The unit supports up to 1000W solar input.

- **Car Charging:** Use the Car Charging Cable to charge the unit from your vehicle's 12V car port.
- **EcoFlow Smart Generator:** For extended backup, connect an EcoFlow Smart Generator.
- **Hybrid Charging:** Combine AC and solar power for the fastest charging speeds.

Blazing-Fast Hybrid Charging

with hybrid AC and solar charging

up to **80%** in just **40 minutes**

with a maximum input of 1500W

100% in only **56 minutes**



The DELTA 3 Plus supports blazing-fast hybrid AC and solar charging, reaching 80% in just 40 minutes and 100% in 56 minutes with a maximum input of 1500W.

Lightning-Fast Charging with the 800W Alternator Charger

powering the DELTA 3 Plus from 0 to 100%

just 1.3 hours

8 times faster



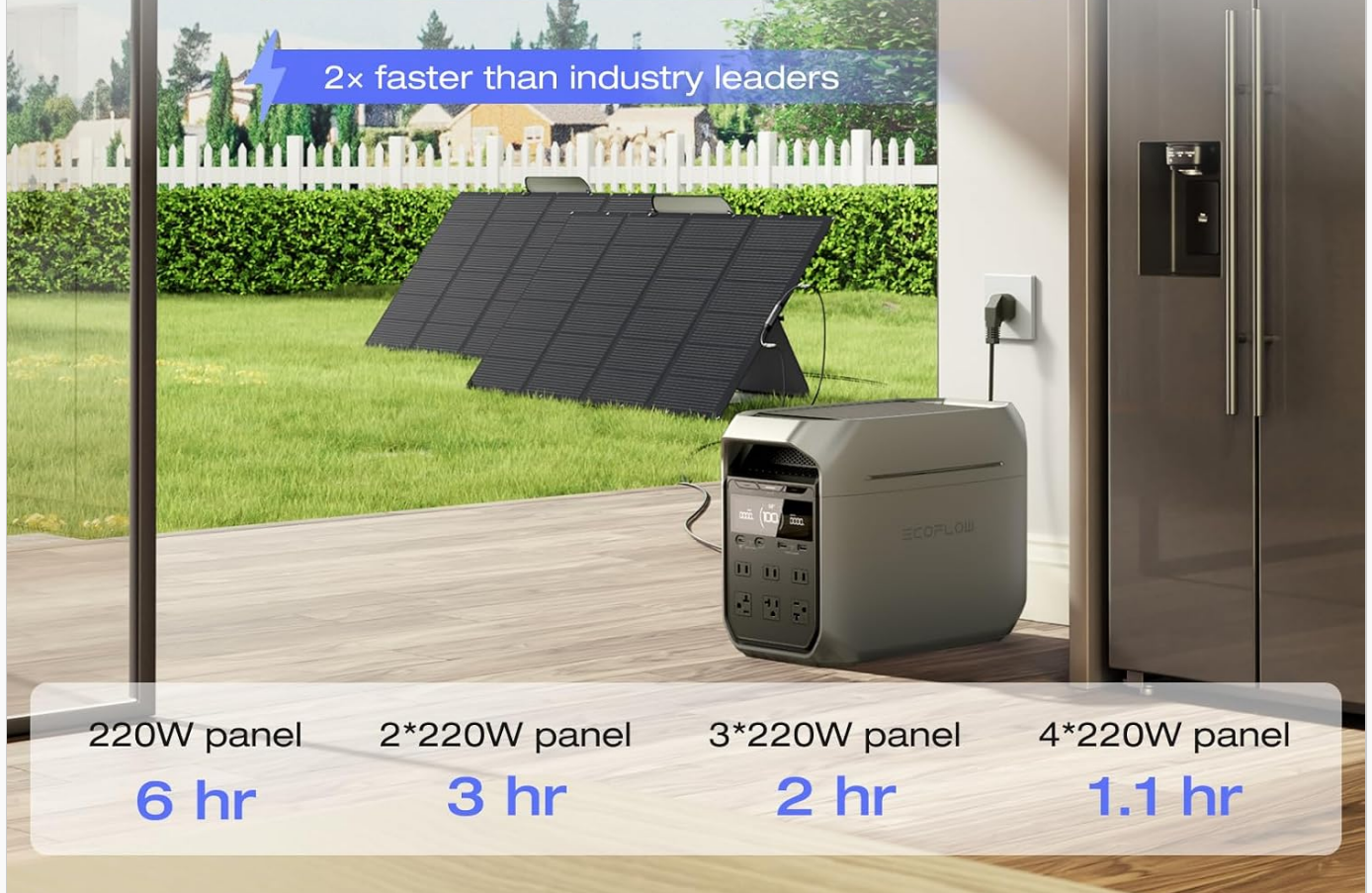
The DELTA 3 Plus can be charged from 0 to 100% in just 1.3 hours using an 800W Alternator Charger, which is 8 times faster than typical options.

Ultra-Efficient Solar Recharging

500W MPPT x 2: Fully charges EcoFlow DELTA 3Plus

just 70 minutes

2x faster than industry leaders



Achieve ultra-efficient solar recharging with 500W MPPT x 2, fully charging the EcoFlow DELTA 3 Plus in just 70 minutes. This is 2x faster than industry leaders.

OPERATING THE DELTA 3 PLUS

Front Panel Overview:

- **AC Power Outputs:** Six 120V outlets for standard appliances. The unit provides 1800W continuous power and 3600W surge power.
- **USB-C Ports:** Two 140W USB-C ports for fast charging compatible devices.
- **USB-A Ports:** Two fast-charge USB-A ports for various devices.
- **Display Screen:** Provides real-time information including input power, output power, remaining run time, battery percentage, and other host information. The display is visible even in direct sunlight.

Rear Panel Overview:

- **12V DC Output:** Standard 12V car port for DC appliances.
- **Barrel Plug Adapters:** Additional ports for 12V DC devices.
- **Solar/Car Input Ports:** Two 15A max/500W per port for solar panel or car charging.
- **Extra Battery Port:** Allows connection of additional DELTA 3 series or DELTA Pro 3/DELTA 2 Max battery packs to expand capacity up to 5kWh.
- **AC Charge Input:** For connecting the AC charging cable from a wall outlet.

Advanced Features:

- **X-Boost Feature:** Accessible via the EcoFlow app, X-Boost allows the unit to power devices requiring up to 2700W. Note that this feature reduces the output voltage, which may not be suitable for all appliances.
- **Uninterrupted Power Supply (UPS):** When plugged into a wall outlet, the DELTA 3 Plus can act as a UPS. If grid power is lost, the unit automatically switches to battery power within 10 milliseconds, ensuring continuous operation for connected devices like security cameras or internet routers. The unit can be configured via the app to automatically resume AC output when grid power returns.
- **Quiet Operation:** The unit features efficient cooling fans that operate at a nearly silent 30 dB below 600W, blending seamlessly with ambient noise.

Powerful Yet Whisper-Quiet Performance

Power 99% of appliances with X-Boost, delivering up to 2700W output. Operates at a nearly silent **30 dB** below **600W**, blending seamlessly with natural ambient noise.

zzZ



Manage energy and switch to solar-only charging as needed via the EcoFlow app, which also provides UPS alerts and savings modes.

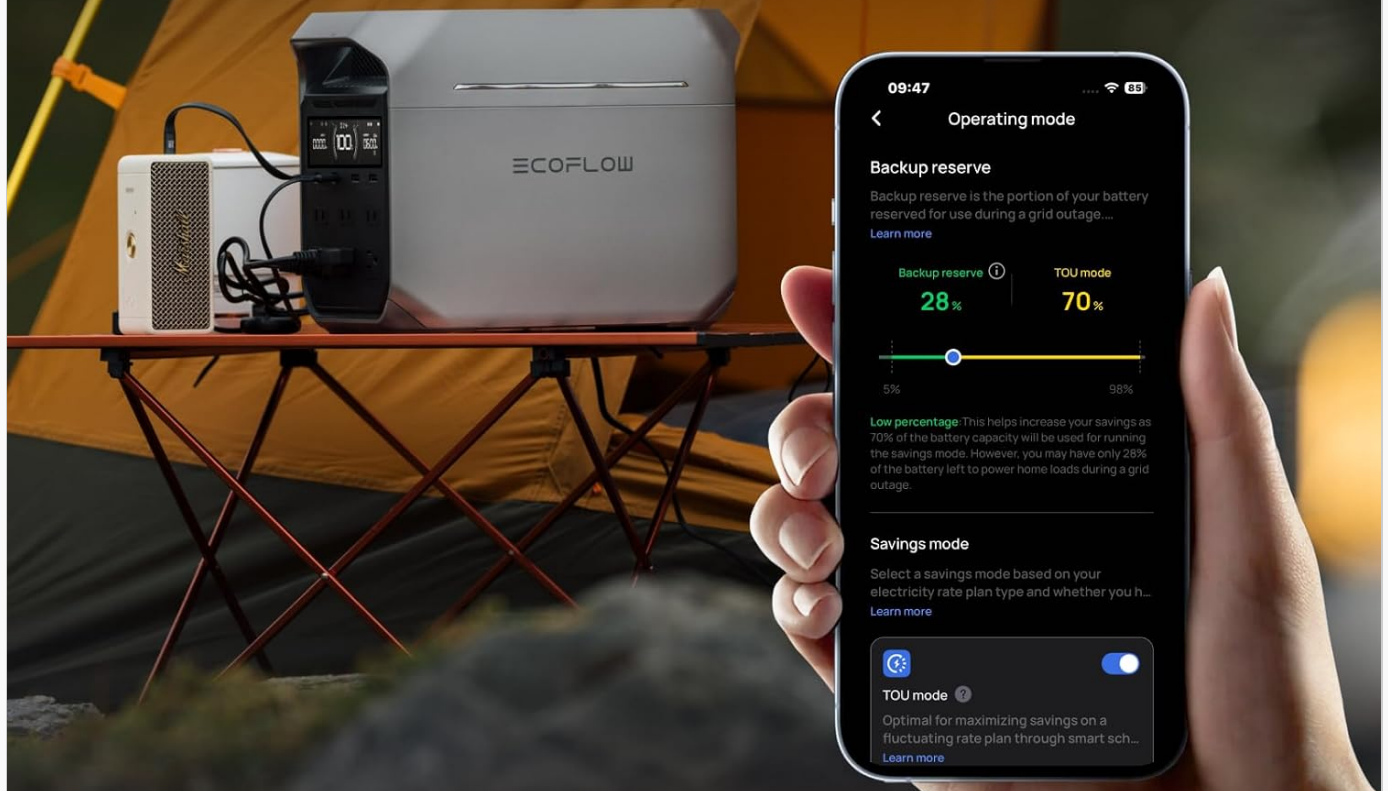
Smart Solar Control at Your Fingertips



Easy power
management via the app



Switch to solar-only
charging as needed.



The DELTA 3 Plus offers powerful performance, powering 99% of appliances with X-Boost (up to 2700W output), while operating at a nearly silent 30 dB below 600W.

Compact Design More Power Options

Powers up to **13 devices** simultaneously in a compact size—**5%** smaller than the DELTA 2 and comparable to a microwave



The compact design of the DELTA 3 Plus allows it to power up to 13 devices simultaneously, being 5% smaller than the DELTA 2 and comparable to a microwave.

MAINTENANCE

To ensure the longevity and optimal performance of your EF ECOFLOW DELTA 3 Plus Solar Generator, follow these maintenance guidelines:

- **Regular Cleaning:** Keep the unit clean and free from dust and debris, especially around the cooling vents, to ensure proper airflow and prevent overheating.
- **Battery Health:** For LiFePO4 batteries, it is generally recommended to keep the battery charge between 20% and 80% for daily use to maximize cycle life. For long-term storage, charge the unit to about 50% and recharge every 3-6 months.
- **Storage Conditions:** Store the unit in a cool, dry place away from direct sunlight, extreme temperatures, and high

humidity.

- **Cable Management:** Ensure all cables are properly connected and not kinked or damaged.

TROUBLESHOOTING

If you encounter issues with your DELTA 3 Plus, consider the following common troubleshooting steps:

- **No Power Output:** Check if the AC/DC output is enabled on the unit's display or via the EcoFlow app. Ensure the battery has sufficient charge.
- **Charging Issues:** Verify that all charging cables are securely connected. For solar charging, ensure panels are clean and optimally angled towards the sun. Check the input wattage displayed on the screen.
- **Overload Protection:** If the unit shuts down due to overload, disconnect some appliances and restart the unit. Consider using the X-Boost feature for higher wattage appliances if appropriate.
- **App Connectivity:** Ensure your unit's Wi-Fi is enabled and your smartphone is connected to the same network for app control.
- **Unusual Noise/Smell:** Immediately power off the unit and disconnect all devices. Contact customer support if you experience any unusual noises, smells, or smoke.

SPECIFICATIONS

Feature	Detail
Product Dimensions	7.8 x 15.6 x 11.1 inches
Item Weight	27 Pounds
Item Model Number	EF-DL-H10-4
Manufacturer	EcoFlow
Wattage	1024 watts (Battery Capacity)
Output Wattage	1800W (Continuous)
Surge Wattage	3600W
Voltage	110 Volts (AC)
Power Source	Solar Powered
Fuel Type	Electric
Recommended Uses	Camping, Home Backup, RVs
Battery Type	LiFePO4 (LFP)
Battery Cycles	4000 cycles to 80% capacity

WHAT'S IN THE BOX

- **Package 1:**

- EcoFlow DELTA 3 Plus Power Station
- AC Charging Cable
- Car Charging Cable
- DC5521 to DC5525 Cable
- Manuals

- **Package 2:**

- EcoFlow NextGen 220W Portable Solar Panel
- XT60i Charging Cable
- Protective Bag
- Safety Instructions

Note: The DELTA 3 Plus Power Station and 220W Portable Solar Panel are shipped separately.

WARRANTY AND SUPPORT

For warranty information, technical support, or any inquiries regarding your EF ECOFLOW DELTA 3 Plus Solar Generator, please refer to the official EcoFlow website or contact their customer service directly. Keep your purchase receipt and product serial number handy for faster service.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

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