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> EF ECOFLOW DELTA 3 Portable Power Station User Manual

EF ECOFLOW EF-DL-H10-3

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Model: EF-DL-H10-3

1. INTRODUCTION

The EF ECOFLOW DELTA 3 Portable Power Station is a versatile and powerful energy solution designed for various applications, including home backup, outdoor camping, and RV use. Featuring a 1024Wh LiFePO4 battery and 1800W AC output, it offers rapid charging capabilities and a long lifespan. This manual provides essential information for safe and efficient operation of your DELTA 3 power station.

2. IMPORTANT SAFETY INSTRUCTIONS

Please read and understand all safety information before operating the DELTA 3. 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 immerse the unit in water or expose it to rain.
- Ensure proper ventilation during use to prevent overheating.
- Use only original or certified charging cables and accessories.
- Keep out of reach of children and pets.
- In case of fire, use a dry powder fire extinguisher.

3. WHAT'S IN THE BOX

Verify that all components are present upon unpacking:

- EcoFlow DELTA 3 portable power station ×1
- AC charging cable ×1
- Car charging cable ×1
- DC5521-DC5525 cable ×1
- User manual ×1

- Warranty card ×1

4. PRODUCT OVERVIEW

The DELTA 3 features a robust design with multiple output ports and an intuitive display for monitoring power usage and battery status.



Figure 4.1: Front view of the DELTA 3 Portable Power Station, showing the display and various output ports.

4.1. Ports and Display

The DELTA 3 is equipped with a comprehensive set of ports to power a wide range of devices simultaneously. The front panel includes a clear display showing input/output wattage, battery percentage, and remaining usage/charge time.

POWER 13 DEVICES AT ONCE

DELTA 3 handles more appliances simultaneously even in cramped spaces.



Figure 4.2: Detailed diagram illustrating the 13 available output ports on the DELTA 3, including USB-C, USB-A, AC outlets, car charger, and DC5521 ports.

- **AC Output:** 6 AC ports, 1800W continuous, 3600W surge with X-Boost.
- **USB-C:** 2 x 100W USB-C ports.
- **USB-A:** 2 x 18W USB-A fast charge ports.
- **Car Charger:** 1 x 126W car charger port.
- **DC5521:** 2 x 38W DC5521 ports.

5. INITIAL SETUP

Before first use, it is recommended to fully charge your DELTA 3 power station.

1. **Unpack:** Remove the DELTA 3 and all accessories from the packaging.
2. **Initial Charge:** Connect the AC charging cable to the DELTA 3's AC input port and then to a wall outlet. The display will show the charging status.

3. **Full Charge:** Allow the unit to charge until the battery indicator shows 100%. This typically takes approximately 56 minutes for a full charge from 0% using AC input.

6. OPERATING YOUR DELTA 3

6.1. Charging Methods

The DELTA 3 offers multiple fast-charging options:



Figure 6.1: Visual representation of the five fast charging methods available for the DELTA 3, including Solar+AC, AC, Solar, Car, and Generator charging.

- **AC Charging:** Full charge in 56 minutes. An 80% charge can be reached in just 30 minutes.
- **Solar Charging:** Supports up to 500W solar input. Full charge in approximately 2 hours with optimal solar conditions.
- **Car Charging:** Full charge in approximately 1.3 hours using an 800W EcoFlow Alternator Charger.
- **Generator Charging:** Can be charged via a compatible generator.

- **Solar + AC Charging:** Combines solar and AC input for the fastest charging.

6.2. Powering Devices

The DELTA 3 can power up to 13 appliances simultaneously with its 1800W AC output, supporting resistive appliances with power demands over 2600W continuously via X-Boost technology.

RUN YOUR HIGH-WATTAGE APPLIANCES

* 1800W AC output, 2600W (surge 3600W) with X-Boost

X-BOOST

2600W

			
Electric kettle	Hair dryer	Air conditioner	Electric heater
0.5 Hr (1500W)	0.5 Hr (1600W)	0.4 Hr (1800W)	0.4 Hr (2200W)

Figure 6.2: Examples of high-wattage appliances that can be powered by the DELTA 3, such as electric kettles, hair dryers, air conditioners, and electric heaters, with estimated run times.

6.3. Smart App Control

Monitor and control your DELTA 3 remotely using the EcoFlow smart app. The app provides real-time energy insights, allows for remote control, customization of settings (like charging speed), and offers constant updates for optimal user experience.



400W Solar Panel

Figure 6.3: Screenshots demonstrating the EcoFlow app's capabilities, including monitoring, control, customization of battery lifespan, and access to updates.

6.4. Expandable Capacity

The DELTA 3 Series integrates with EcoFlow's ecosystem, allowing expansion up to 5kWh with DELTA 3, DELTA Pro 3, and DELTA 2 Max battery packs. The DELTA 3 Extra Battery is 1/3 smaller and lighter than the DELTA 2 Extra Battery.

CUSTOMIZE YOUR POWER EXPERIENCE
Same power, more compact

Configuration	Total Capacity
DELTA 3 + DELTA 3 Extra Battery (1024Wh)	2048Wh
DELTA 3 + DELTA 2 Max Extra Battery (2048Wh)	3072Wh
DELTA 3 + DELTA Pro 3 Extra Battery (4096Wh)	5120Wh

*The EcoFlow DELTA 3 are compatible with Extra Battery of DELTA 3, DELTA Pro 3, DELTA 2 Max, DELTA 2

Figure 6.4: Visual guide to expanding the DELTA 3's capacity using different EcoFlow extra battery packs, illustrating configurations for 2048Wh, 3072Wh, and 5120Wh.

7. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your DELTA 3.

7.1. Battery Care

The DELTA 3 is powered by LiFePO₄ (LFP) cells, offering 4000 cycles to 80% capacity, providing a 10-year lifespan for daily use.

10-YEAR LIFESPAN
LFP BATTERY

4000 cycles to 80%+ capacity

4000 Cycles

LFP Battery Third-gen LiFePO ₄	5-Year Service	10-Year Lifespan	BMS Over 40 protective measures
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Figure 7.1: Information on the DELTA 3's LFP battery, emphasizing its 4000 cycles to 80%+ capacity, 5-year service, and 10-year lifespan.

- **Storage:** Store the unit in a dry, well-ventilated area, away from direct sunlight and extreme temperatures.
- **Charging Frequency:** For optimal battery health, fully charge the unit at least once every 3-6 months if not in regular use.
- **Temperature:** Operate and store the unit within the recommended temperature range specified in the specifications.

7.2. Cleaning and Protection

The DELTA 3 features an IP65 battery pack, providing triple protection against splash, dust, and oil.

LONG-LASTING & DURABLE POWER


IP65
Battery Pack



Fire-Resistant Materials*



* UL 94V-0 Rated Flame-Retardant Material
 * UL Listed Drop Test Approved (UL2743)




30 dB Ultra-Quiet Operation



Figure 7.2: Features demonstrating the durability of the DELTA 3, including its IP65 rating for water, dust, and oil resistance, and the use of fire-resistant materials.

- **Cleaning:** Use a dry, soft cloth to wipe the surface of the unit. Do not use harsh chemicals or abrasive materials.
- **Protection:** While the unit is IP65 rated, avoid prolonged exposure to heavy rain or submersion.

8. TROUBLESHOOTING

If you encounter issues with your DELTA 3, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Unit not turning on	Battery depleted; Power button not pressed correctly	Charge the unit; Press and hold the main power button for 3 seconds.
No output from AC/DC ports	AC/DC output not enabled; Overload protection triggered	Ensure AC/DC buttons are pressed; Reduce connected load; Restart the unit.

Problem	Possible Cause	Solution
Slow charging	High ambient temperature; Charging mode set to quiet mode via app	Move to a cooler environment; Adjust charging speed settings in the EcoFlow app.
Display not working	Unit off; Software issue	Turn on the unit; Try restarting the unit. If issue persists, contact customer support.

9. SPECIFICATIONS

Detailed technical specifications for the EF ECOFLOW DELTA 3 Portable Power Station:

Feature	Detail
Brand	EF ECOFLOW
Model Name	DELTA 3
Item Model Number	EF-DL-H10-3
Wattage	1024 kWh
Output Wattage	1800W (AC)
Voltage	110 Volts (AC)
Battery Type	LiFePO4 (LFP)
Battery Cycles	4000 cycles to 80%+ capacity
Dimensions (L x W x H)	15.7" x 8" x 11.2"
Item Weight	12.5 Kilograms (27.5 pounds)
Total Power Outlets	13
Ingress Protection (IP) Rating	IP65 (Battery Pack)
UPC	842783143235

10. WARRANTY AND SUPPORT

The EcoFlow DELTA 3 Portable Power Station comes with an exclusive 5-year customer service warranty, ensuring support for your product's lifespan.

For technical assistance, warranty claims, or further inquiries, please contact EF ECOFLOW customer support through their official website or the contact information provided on your warranty card.

You can also visit the official EF ECOFLOW store on Amazon for product information and support: [EF ECOFLOW Store](#)

