



Manuals.plus /

- › EF ECOFLOW /
- › EF ECOFLOW DELTA Pro Solar Generator User Manual

EF ECOFLOW EFD500

EF ECOFLOW DELTA Pro Solar Generator User Manual

Model: EFD500
Brand: EF ECOFLOW

1. INTRODUCTION

The EF ECOFLOW DELTA Pro is a powerful and versatile solar generator designed to provide reliable power for various applications, from home backup to outdoor adventures. This manual provides essential information on setting up, operating, maintaining, and troubleshooting your DELTA Pro system, including the accompanying 400W portable solar panels.

With its robust 3600Wh battery capacity and 3600W AC output, expandable up to 4500W with X-Boost technology, the DELTA Pro can power a wide range of domestic appliances. Its high-efficiency solar panels ensure optimal charging even in varying weather conditions, making it an ideal solution for emergency power, camping, RV use, and off-grid living.



Figure 1.1: The EF ECOFLOW DELTA Pro Solar Generator with two 400W portable solar panels.

2. SETUP

Before first use, ensure all components are present and undamaged. The solar generator and solar panels may be shipped in separate packages.

2.1 Unpacking and Initial Inspection

- Carefully remove the DELTA Pro unit and solar panels from their packaging.
- Inspect all items for any signs of physical damage. If any damage is found, contact customer support immediately.
- Verify that all included components are present: DELTA Pro unit, 2x 400W portable solar panels, and necessary charging cables.

2.2 Initial Charging of DELTA Pro

It is recommended to fully charge the DELTA Pro unit before its first use to optimize battery performance.

1. Connect the AC charging cable to the AC input port on the DELTA Pro.
2. Plug the other end of the AC charging cable into a standard wall outlet (1800W or 240V/3000W for faster charging).
3. The display screen will show the charging status. The unit can be fully charged in approximately 1.8 hours (240V outlets) or 2.7 hours (1800W wall outlets).



Figure 2.1: DELTA Pro connected to a wall outlet for initial charging.

3. OPERATING INSTRUCTIONS

3.1 Powering On/Off

To power on the DELTA Pro, press and hold the main power button until the display screen illuminates. To power off, press and hold the button again until the display turns off.

3.2 Charging with Solar Panels

The 400W portable solar panels offer high efficiency for recharging your DELTA Pro.

1. Unfold the 400W solar panels and position them in direct sunlight. Utilize the adjustable carry case to angle the panels for optimal sun exposure.
2. Connect the solar charging cables from the panels to the solar input port on the DELTA Pro.
3. Monitor the input wattage on the DELTA Pro's display to ensure efficient charging. A single 400W panel can fully recharge the unit in approximately 11 hours, while three 400W panels can do so in 3.5 hours.

Plug & Play Whole-Home Backup Solution

You could apply for the Residential Clean Energy Credit for qualified solar electric property costs.



You Could Apply For
30%
Tax Credit

*Check with your utility to verify eligibility & requirements on IRS

Figure 3.1: DELTA Pro charging via portable solar panels.

X-TREAM Charging

AC Recharge 0-80% in 2H



			
EV CHARGE 3400W	WALL CHARGE 240V/120V	SOLAR CHARGE 3*400W	CAR CHARGE 96W
1.7hr	1.8hr / 2.7hr	3.5hr	37.5hr

Figure 3.2: The 400W solar panel boasts a 22.4% conversion rate.

3.3 Using Output Ports

The DELTA Pro features 15 versatile outlets and ports to power your devices:

- 5 AC Outlets (120V/3600W, up to 4500W with X-Boost)
- 4 USB-A Ports
- 2 USB-C Ports
- 2 DC Ports
- 1 Car Power Output
- 1 Anderson Port (for RV hookup)

Simply plug your devices into the appropriate ports. Ensure the total wattage of connected devices does not exceed the unit's maximum output (3600W, or 4500W with X-Boost).

15 Versatile Outlets

5	1	2	2	2	1	2
AC OUTLETS	CAR POWER OUTPUT	USB-A OUTPUT	USB-A FAST CHARGE OUTPUT	USB-C OUTPUT	ANDERSON PORT	DC5521



Figure 3.3: Overview of DELTA Pro's 15 versatile output ports.

3.4 Smart App Control

Download the EcoFlow app to monitor and control your DELTA Pro remotely via Wi-Fi or Bluetooth. The app allows you to:

- Monitor charge level, temperature, and charge/discharge times.
- Customize settings, including battery life optimization and input/output parameters.

3.5 Common Use Cases

The DELTA Pro is designed for a variety of power needs:

- **Home Backup:** Power essential appliances like refrigerators, lights, and even some air conditioners during outages.
- **Outdoor Activities:** Ideal for camping, RV trips, and tailgating, powering everything from mini-fridges to projectors.

- **Work Sites:** Run power tools and other equipment where grid power is unavailable.



Figure 3.4: DELTA Pro providing power for a refrigerator.



Figure 3.5: DELTA Pro integrated into a home for backup power.

4. MAINTENANCE

4.1 General Care

- Keep the DELTA Pro and solar panels clean and free from dust and debris. Use a soft, dry cloth for cleaning.
- Store the unit in a cool, dry place away from direct sunlight and extreme temperatures.
- The solar panels have an IP68 waterproof rating, meaning they are dust and water tight, but avoid submerging the DELTA Pro unit in water.

4.2 Battery Health

To maintain optimal battery health and prolong its lifespan, it is recommended to perform a discharge-charge cycle every 45 days. This involves discharging the unit and then fully recharging it.

5. TROUBLESHOOTING

Problem	Possible Cause	Solution
Unit not powering on.	Battery fully discharged; Power button not held long enough.	Connect to AC power for charging; Press and hold the power button for 3-5 seconds.
Solar panels not charging efficiently.	Panels not in direct sunlight; Incorrect angle; Cloudy weather.	Adjust panel position for maximum sun exposure; Ensure clear sky; Consider adding more panels for faster charging.
Connected device not receiving power.	Total wattage exceeds unit's output; Port not activated; Cable issue.	Reduce load or activate X-Boost; Ensure AC/DC output is turned on; Check cable connections.
Unit not holding charge as expected.	Battery degradation; High power consumption; Infrequent discharge-charge cycles.	Perform regular discharge-charge cycles (every 45 days); Monitor power consumption via app; Contact support if issue persists.

6. SPECIFICATIONS

Feature	Detail
Brand	EF ECOFLOW
Model Name	EFD500
Battery Capacity	3600Wh
AC Output	3600W (Pure Sine Wave, 7200W Surge)
X-Boost Technology	Up to 4500W
Total Outlets	15 (5 AC, 4 USB-A, 2 USB-C, 2 DC, 1 Car, 1 Anderson)
Solar Panel Efficiency	22.4% (400W Portable Solar Panel)
AC Charging Time (0-100%)	1.8 hrs (240V) / 2.7 hrs (1800W)
Solar Charging Time (0-100%)	11 hrs (1x400W) / 3.5 hrs (3x400W)
Item Weight	99 Pounds
Product Dimensions	16.4"L x 25"W x 11.2"H
Waterproof Rating (Solar Panel)	IP68
UPC	842783131522

7. WARRANTY AND SUPPORT

EF ECOFLOW products are designed for durability and performance. For specific warranty details and terms, please refer to the warranty card included with your product or visit the official EF ECOFLOW website.

For any technical assistance, troubleshooting, or product inquiries, please contact EF ECOFLOW Customer Support. Contact information can typically be found on the product packaging or the official brand website.