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EF ECOFLOW DELTA2+2X100WSP (EFD330)

EF ECOFLOW DELTA 2 Portable Power Station with 2PCS 100W Solar Panels User Manual

Model: DELTA2+2X100WSP (EFD330)

Brand: EF ECOFLOW

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your EF ECOFLOW DELTA 2 Portable Power Station and the included 2PCS 100W Solar Panels. The DELTA 2 is a robust power solution featuring a 1024Wh LFP battery, 1800W (Surge 2700W) output, and fast charging capabilities, designed for home backup, camping, and RV use.

The system is designed for durability and long-term performance, offering a 3000+ cycle life thanks to its LFP battery chemistry. It can power up to 15 devices simultaneously, providing a clean and quiet alternative to traditional gas generators.



Image 1.1: The DELTA 2 Portable Power Station shown with two 100W Solar Panels.

2. WHAT'S IN THE BOX

Upon unpacking, please verify that all components listed below are present and in good condition. Note that the DELTA 2 unit and the 100W Solar Panels may arrive in separate packages.

What's in the box



- | | |
|----------------------------------|-----------------------------|
| 1. DELTA 2 | 2. AC Charging Cable |
| 3. Car charging cable | 4. DC5521 to DC5525 cable |
| 5. User Manual and Warranty card | 6. 100W Rigid Solar Panel*2 |
| 7. Solar to XT60 Charging Cable | |

Image 2.1: Visual representation of the package contents.

1. DELTA 2 Portable Power Station
2. AC Charging Cable
3. Car Charging Cable
4. DC5521 to DC5525 Cable
5. User Manual and Warranty Card
6. 100W Rigid Solar Panel (x2)
7. Solar to XT60 Charging Cable

3. SETUP

Setting up your DELTA 2 and solar panels is designed to be straightforward. Follow these steps for initial

deployment:

3.1 Unpacking and Placement

- Remove all components from their packaging.
- Place the DELTA 2 Power Station on a stable, flat surface in a well-ventilated area.
- Position the 100W Solar Panels in direct sunlight, ensuring no obstructions block the light.



Image 3.1: The DELTA 2 and solar panels set up for use in an outdoor environment.

3.2 Connecting Solar Panels

The solar panels utilize MC4 connectors for easy plug-and-play setup.

- Connect the MC4 connectors from the solar panels to the Solar to XT60 Charging Cable.
- Plug the XT60 end of the charging cable into the solar charging port on the DELTA 2 unit.
- Ensure all connections are secure.



Image 3.2: Illustration of MC4 connector and the solar charging port on the DELTA 2.

4. OPERATING INSTRUCTIONS

The DELTA 2 offers versatile power output and charging options.

4.1 Powering On/Off

- To power on the DELTA 2, press and hold the main power button until the display illuminates.
- To power off, press and hold the main power button until the display turns off.
- Individual AC and DC outlets can be toggled on/off using their respective buttons.

4.2 Charging the DELTA 2

The DELTA 2 supports multiple charging methods:

- **Solar Charging:** Connect the solar panels as described in Section 3.2. Charging times vary based on the number of panels and sunlight intensity. With two 100W solar panels, a full charge can be achieved in approximately 5.1 hours under optimal conditions.

- **AC Wall Outlet Charging:** Use the included AC Charging Cable to connect the DELTA 2 to a standard wall outlet. The X-Stream technology allows for rapid charging, reaching 0-80% in approximately 50 minutes.
- **Car Charging:** Use the included Car Charging Cable to charge the DELTA 2 from your vehicle's 12V cigarette lighter port.
- **Smart Extra Battery:** Connect an optional DELTA 2 Extra Battery for extended capacity and charging.



Image 4.1: Approximate solar charging times based on the number of 100W solar panels.

High Conversion Rate

With a 23% solar conversion rate, you'll fast charge DELTA 2 in no time.



Image 4.2: Overview of versatile recharge options for the DELTA 2.

4.3 Power Output

The DELTA 2 provides 1800W of continuous AC output (2700W surge) and features 15 outlets, allowing it to power approximately 90% of common home appliances. It also includes USB-A, USB-C, and DC outputs.

4.4 Expandable Capacity

The base capacity of 1024Wh can be expanded up to 3kWh by connecting additional DELTA 2 Extra Batteries, DELTA 2 Max Extra Batteries, or DELTA Max Extra Batteries.



Image 4.3: DELTA 2 units demonstrating expandable energy storage.

5. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your DELTA 2 system.

5.1 Battery Care

The DELTA 2 utilizes LFP (Lithium Iron Phosphate) battery chemistry, offering a cycle life of 3000+ cycles to 80% capacity. This translates to approximately 10 years of regular use.

- Store the unit in a cool, dry place away from direct sunlight and extreme temperatures.
- For long-term storage, it is recommended to discharge the battery to 30% and then recharge to 60% every 3

months to prolong battery life.

- Avoid fully discharging the battery frequently.

An advertisement for the EcoFlow DELTA 2 battery. The background is a scenic landscape with green hills on the left and snow-capped mountains on the right. In the foreground, the black EcoFlow DELTA 2 battery is shown from a front-three-quarter view. The battery has two circular vents on top and the 'ECOFLOW' logo on the front. Overlaid on the image are two large green text elements: '6X longer' on the left and '3000+ cycle life' on the right. Above these, the main headline reads 'Built to Last 6X Longer' in bold black text, followed by a sub-headline: 'Tech made to last saves you money. With an LFP battery, it has a 3000+ cycle life.'

Built to Last 6X Longer

Tech made to last saves you money. With an LFP battery, it has a 3000+ cycle life.

6X
longer

3000+
cycle life

ECOFLOW

Image 5.1: The DELTA 2's LFP battery offers a significantly longer lifespan.

5.2 Solar Panel Care

The 100W Solar Panels are designed to be durable and weatherproof with an IP68 rating, protecting against dust, debris, and rainfall.

- Regularly clean the surface of the solar panels with a soft, damp cloth to remove dust and dirt, which can affect efficiency.
- Inspect cables and connectors periodically for any signs of wear or damage.
- Avoid dropping or placing heavy objects on the panels.

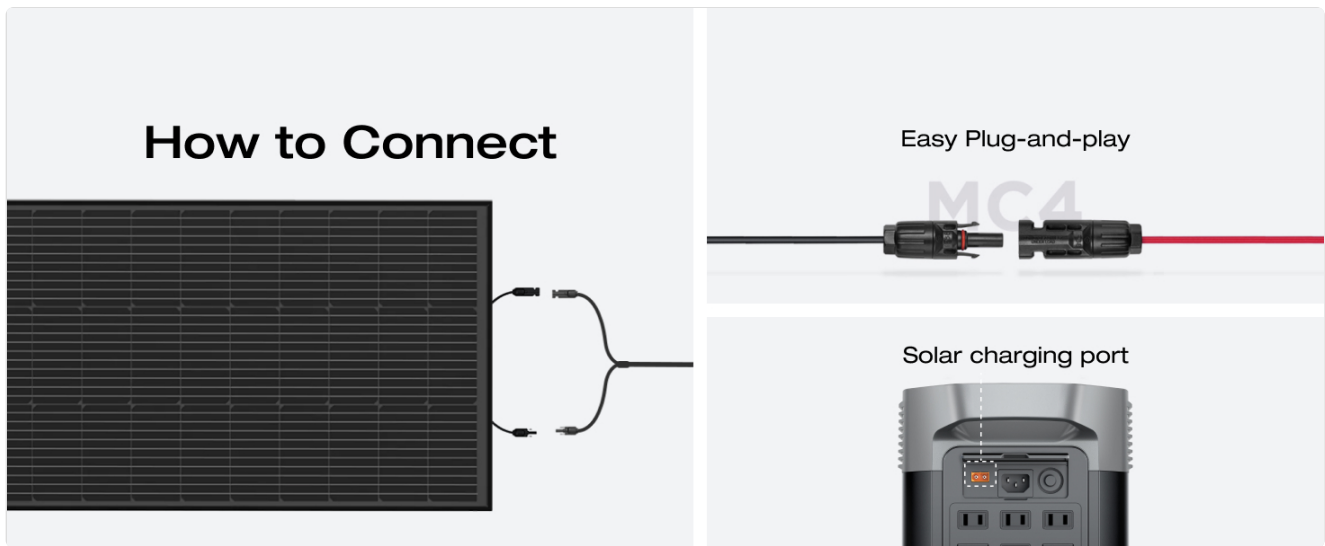


Image 5.2: The solar panels are designed to be durable and weatherproof.

6. TROUBLESHOOTING

If you encounter issues with your DELTA 2 system, consider the following basic troubleshooting steps:

- **No Power Output:** Ensure the DELTA 2 is powered on and the specific AC/DC outlets are activated. Check if the battery level is sufficient.
- **Slow Charging:** For solar charging, ensure panels are in direct sunlight and free of obstructions. Verify all solar connections are secure. For AC charging, ensure the wall outlet is functioning correctly.
- **Unit Not Turning On:** Ensure the battery is not completely depleted. Try connecting to an AC power source for a few minutes.
- **Overload Protection:** If the unit shuts down unexpectedly, it may be due to an overload. Disconnect some devices and restart the unit.

For more detailed troubleshooting or persistent issues, please refer to the comprehensive user manual included in your package or contact EF ECOFLOW customer support.

7. SPECIFICATIONS

Detailed technical specifications for the EF ECOFLOW DELTA 2 Portable Power Station and 100W Solar Panels.

Take it anywhere: Portable and lightweight

DELTA 2:

Size: 15.7*8.3*11.1 in
Weight: 27lbs

2x 100W Solar Panels:

Size: 38.6*23.1*1.2 in
Weight: 13.7lbs

Image 7.1: Physical dimensions and weight of the DELTA 2 and 100W Solar Panels.

Feature	Specification
Brand	EF ECOFLOW
Model Name	DELTA2+2X100WSP (EFD330)
Wattage	1024 Watt-hours (Battery Capacity)
Fuel Type	Electric
Power Source	Solar Powered
Recommended Uses	Camping, Home Backup
Item Weight (DELTA 2)	27 Pounds

Feature	Specification
Voltage	110 Volts (AC Output)
Output Wattage (Solar Panel)	100 Watts (each panel)
Special Feature	7x Faster AC charging, Expandable capacity, Huge AC output, Plug and play home backup power
Included Components	2PCS 100W 12V Solar Panels, DELTA 2
Color	Black&Grey
Product Dimensions (DELTA 2)	15.7"L x 8.3"W x 11.1"H
Engine Type	Solar
Total Power Outlets	15
Current Rating	16.67 Amps
Engine Power Maximum	200 Watts (Total Solar Input)
Starting Wattage	2700 Watts (Surge)
Running Wattage	1800 Watts
UPC	842783131607

8. WARRANTY AND SUPPORT

The EF ECOFLOW DELTA 2 Portable Power Station and 100W Solar Panels come with a manufacturer's warranty. A detailed warranty card is included in your package (refer to Section 2, Item 5).

Please retain your proof of purchase for warranty claims. For technical support, service, or warranty inquiries, please refer to the contact information provided in your warranty card or visit the official EF ECOFLOW website.



Image 8.1: EF ECOFLOW 5-year warranty indication.