

EF ECOFLOW EFYJ751-BP

EF ECOFLOW DELTA Pro Ultra with Smart Home Panel 2 User Manual

Model: EFYJ751-BP

Brand: EF ECOFLOW

1. INTRODUCTION AND OVERVIEW

The EF ECOFLOW DELTA Pro Ultra with Smart Home Panel 2 is a comprehensive power solution designed for home backup, off-grid living, and RV use. This system combines a powerful inverter with a high-capacity LiFePO4 battery, offering expandable energy storage and versatile power output. It is engineered to provide reliable and uninterrupted power for a wide range of appliances, from standard household devices to heavy-duty equipment like a 3-ton central air conditioner.

The modular design allows for easy expansion of battery capacity up to 90kWh, ensuring long-term energy independence. Integrated with the EcoFlow Smart Home Panel 2, it enables intelligent energy management, automatic switchover during outages, and optimization of power usage to reduce electricity bills.



Image: The DELTA Pro Ultra inverter and battery unit, shown alongside the Smart Home Panel 2, illustrating the complete home backup system.

2. PACKAGE CONTENTS

Upon receiving your EF ECOFLOW DELTA Pro Ultra system, please verify that all components are included:

- DELTA Pro Ultra Inverter
- DELTA Pro Ultra Battery (6144Wh)
- Smart Home Panel 2

Note: The product may be shipped in separate packages.

3. SETUP

The DELTA Pro Ultra system is designed for straightforward installation and modular expansion. The core unit consists of an inverter and a battery, which can be stacked for a compact footprint. For whole-home integration, the system pairs with the EcoFlow Smart Home Panel 2.

3.1. Initial Placement and Connection

Place the DELTA Pro Ultra inverter and battery in a stable, well-ventilated area. Ensure adequate space around the units

for proper airflow and access to ports. Connect the inverter to the battery unit securely.

3.2. Smart Home Panel 2 Integration

For whole-home backup, connect the DELTA Pro Ultra to the EcoFlow Smart Home Panel 2. This panel facilitates automatic switchover during power outages and enables advanced energy management features. Refer to the Smart Home Panel 2's dedicated manual for detailed installation instructions and wiring diagrams.



Image: A diagram illustrating the 120V/240V home backup power capabilities of the DELTA Pro Ultra, showing how it can power various household appliances including a central air conditioner.

3.3. Expanding Capacity

The DELTA Pro Ultra's capacity is expandable from 6144Wh up to 90kWh by adding additional battery units. This modular design allows users to customize their energy storage based on their specific needs. Additional inverters can also be paired with the Smart Home Panel 2 to achieve a higher AC output, up to 21.6kW.

6kWh-90kWh Expandable Capacity

One 6kWh unit supports two days of essential power during a blackout.

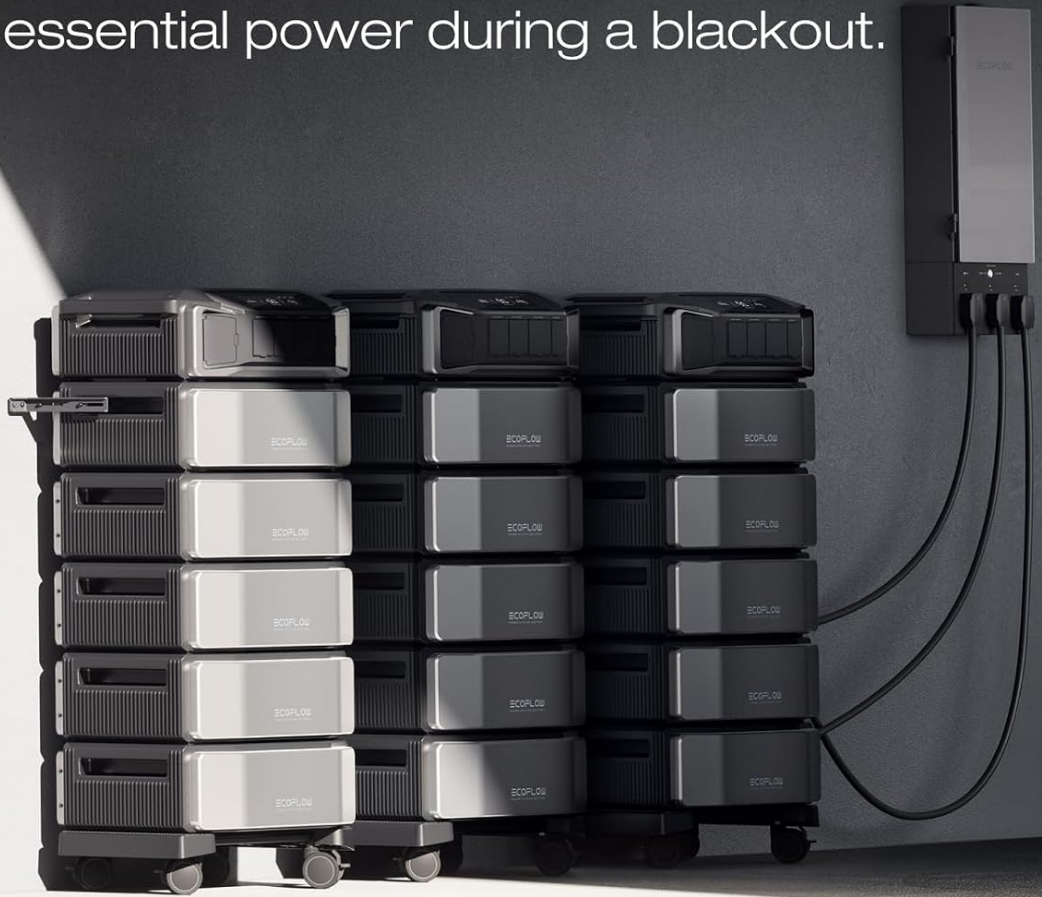


Image: A visual representation of the DELTA Pro Ultra's expandable capacity, showing multiple stacked battery units connected to a Smart Home Panel, capable of providing extended power backup.

4. OPERATING INSTRUCTIONS

The DELTA Pro Ultra is designed for ease of use, providing powerful and flexible energy output for various applications.

4.1. Power Output

A single DELTA Pro Ultra inverter provides an exceptional 7200W AC output, capable of running nearly any heavy household appliance, including a 3-ton central air conditioner. When three inverters are paired with the EcoFlow Smart Home Panel 2, the system can deliver a combined 21.6kW AC output. The X-Fusion feature ensures a constant 7200W output regardless of the load.

4.2. Outlet Information

The DELTA Pro Ultra features a variety of output ports to accommodate different devices and power requirements:

- **USB-C Ports:** 2 x USB-C (5V, 2.4A, 12W)
- **USB-A Ports:** 2 x USB-A (5V, 9V, 12V, 15V, 20V, 5A, 100W Max)
- **AC Output:** 6 x AC Outlets (4 x 120V, 20A; 1 x 120V, 30A; 1 x 120V/240V, 30A)
- **DC Output Port:** 12.6V, 30A
- **Power In/Out Port:** 120V, 30A; 240V, 30A

Outlet Information

- | | | |
|---|--|---|
| 1 2 x USB-C Port:
5V, 2.4A, 12W | 2 2 x USB-A Port:
5V, 9V, 12V, 15V,
20V, 5A, 100W Max | 3 6 x AC Output:
120V, 20A (x4);
120V, 30A (x1);
120/240V, 30A (x1) |
| 4 DC Output Port:
12.6V, 30A | 5 Power In/Out Port:
120V, 30A; 240V, 30A | |



Image: A detailed view of the DELTA Pro Ultra's various output ports, including USB-C, USB-A, AC outlets, DC output, and the main power in/out port, with labels indicating their specifications.

4.3. Smart Power Management via EcoFlow App

Utilize the EcoFlow app to manage and monitor your power system. The app allows you to prioritize specific circuits in your home, extending backup duration. It intelligently analyzes home power usage to offset peak rates and leverages solar input to reduce energy bills.

Stay in Charge with Smart Power



Real-Time
Battery Insights



AC
Always-On



Energy
Management



Remote
Control



Download on the
App Store



GET IT ON
Google Play

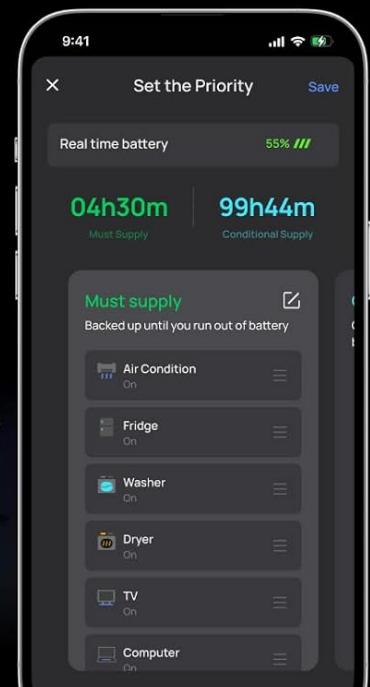


Image: A graphic illustrating the EcoFlow app's smart power features, including real-time battery insights, AC always-on, energy management, and remote control, with a smartphone displaying the app interface.

4.4. Automatic Switchover (20-ms)

When connected to the EcoFlow Smart Home Panel 2, the system provides a 20-ms automatic switchover. This ensures uninterrupted power to your home during an outage, preventing disruptions to essential appliances and systems.

5. CHARGING OPTIONS

The DELTA Pro Ultra offers multiple flexible charging methods to ensure your power station is always ready.

- **Wall Outlets (Grid):** Recharge the 6144Wh battery in approximately 2.5 hours with a 3000W grid input.
- **Solar Charging:** Achieve a full recharge in about 2 hours with a 4000W (High-PV) solar input.

- **Electric Vehicle (EV) Piles:** Charge the unit in approximately 1.5 hours using a 7200W EV pile.
- **Outdoor Generators:** A 7200W generator can fully recharge the battery in about 1.5 hours.

Multiple Ways to Charge

Stay in charge, even with a generator or EV pile

- 

Grid 3000W
2.5 Hr
- 

Solar (High-PV) 4000W
2 Hr
- 

Generator 7200W
1.5 Hr
- 

EV Pile 7200W
1.5 Hr



Image: A graphic illustrating the various charging methods for the DELTA Pro Ultra, including grid power, solar panels, EV charging stations, and traditional generators, along with their respective charging times.

6. SPECIFICATIONS

Feature	Specification
Brand	EF ECOFLOW

Model Name	EFYJ751-BP
Wattage	7200W
Voltage	120V/240V (AC)
Fuel Type	Battery, Solar
Power Source	Battery Powered
Recommended Uses	Residential
Special Feature	Expandable Capacity
Included Components	DELTA Pro Ultra Battery, DELTA Pro Ultra Inverter, Smart Home Panel 2
Color	Silver
Product Dimensions	27.2"L x 18.9"W x 8.4"H
Material	ABS
Item Weight	234 pounds
Total Power Outlets	6
Runtime	51 minutes (at specified load)

7. WARRANTY AND SUPPORT

7.1. Warranty Information

The EF ECOFLOW DELTA Pro Ultra comes with a **5-year manufacturer's warranty**. Please retain your proof of purchase for warranty claims.

7.2. Customer Support

For any inquiries, technical assistance, or support needs, please contact EcoFlow Customer Support. You can also refer to the official Installation Manual for detailed setup procedures and safety guidelines:

Download Installation Manual
(PDF)

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.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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