



[Manuals.plus](#) /

› [EF ECOFLOW](#) /

› [EF ECOFLOW DELTA Max \(1600\) Portable Power Station User Manual](#)

EF ECOFLOW DELTA Max 1600

EF ECOFLOW DELTA Max (1600) Portable Power Station

USER MANUAL

[Introduction](#)

[Safety](#)

[Contents](#)

[Overview](#)

[Setup](#)

[Operation](#)

[Maintenance](#)

[Troubleshooting](#)

[Warranty &](#)

[Support](#)

[Specifications](#)

1. Introduction

Thank you for choosing the EF ECOFLOW DELTA Max (1600) Portable Power Station. This manual provides essential information for the safe and efficient use of your device. The DELTA Max (1600) is designed to provide reliable power for various applications, including home backup, outdoor activities, and emergency situations. Please read this manual thoroughly before operating the product and retain it for future reference.

2. Safety Information

Always follow basic safety precautions when using electrical products to reduce the risk of fire, electric shock, and personal injury. Failure to follow these instructions may result in damage to the product, property, or serious injury.

- Do not disassemble, repair, or modify the unit or the battery.
- Do not place the unit near heat sources or in direct sunlight.
- Do not use the unit in wet environments or near flammable materials.
- Ensure proper ventilation during use and charging.
- Keep the unit away from children and pets.
- Use only official EF ECOFLOW accessories and charging cables.
- In case of fire, use a dry powder fire extinguisher.
- Avoid dropping, heavy impacts, or strong vibrations to the unit.
- Do not insert foreign objects into the ports or openings.

The advanced Battery Management System (BMS) monitors and protects the product in real-time, enhancing reliability and safety.

3. Package Contents

Verify that all items listed below are included in your package. If any items are missing or damaged, please contact EF ECOFLOW support.

- 1x DELTA Max (1600) Portable Power Station
- 1x AC Charging Cable
- 1x Car Charging Cable
- 1x Solar Charging Cable
- 1x DC5521 to DC5525 Cable
- 1x User Manual

4. Product Overview

4.1 Unit Diagram



This image displays the EF ECOFLOW DELTA Max (1600) Portable Power Station, highlighting its compact design, integrated handle, and the front control panel with an LCD screen and various output ports.

4.2 Ports and Outlets

Power 13 Devices at the Same Time



This diagram illustrates the various input and output ports available on the DELTA Max (1600), including AC outlets, USB ports, and DC outputs, indicating its capability to power multiple devices simultaneously.

- **AC Outlets:** 6 x 2000W (5000W Surge)
- **USB-A Ports:** 2 x Standard USB-A
- **USB-A Fast Charge Ports:** 2 x 18W Fast Charge USB-A
- **USB-C Ports:** 2 x 100W USB-C
- **Car Power Outlet:** 1 x 12.6V/10A
- **DC5521 Output:** 2 x 12.6V/3A

5. Setup

5.1 Initial Charge

Before first use, fully charge your DELTA Max (1600) to 100%. This ensures optimal battery performance and

calibration. Connect the AC charging cable to a wall outlet and then to the AC input port on the DELTA Max. The LCD screen will indicate the charging status.

6. Operating Instructions

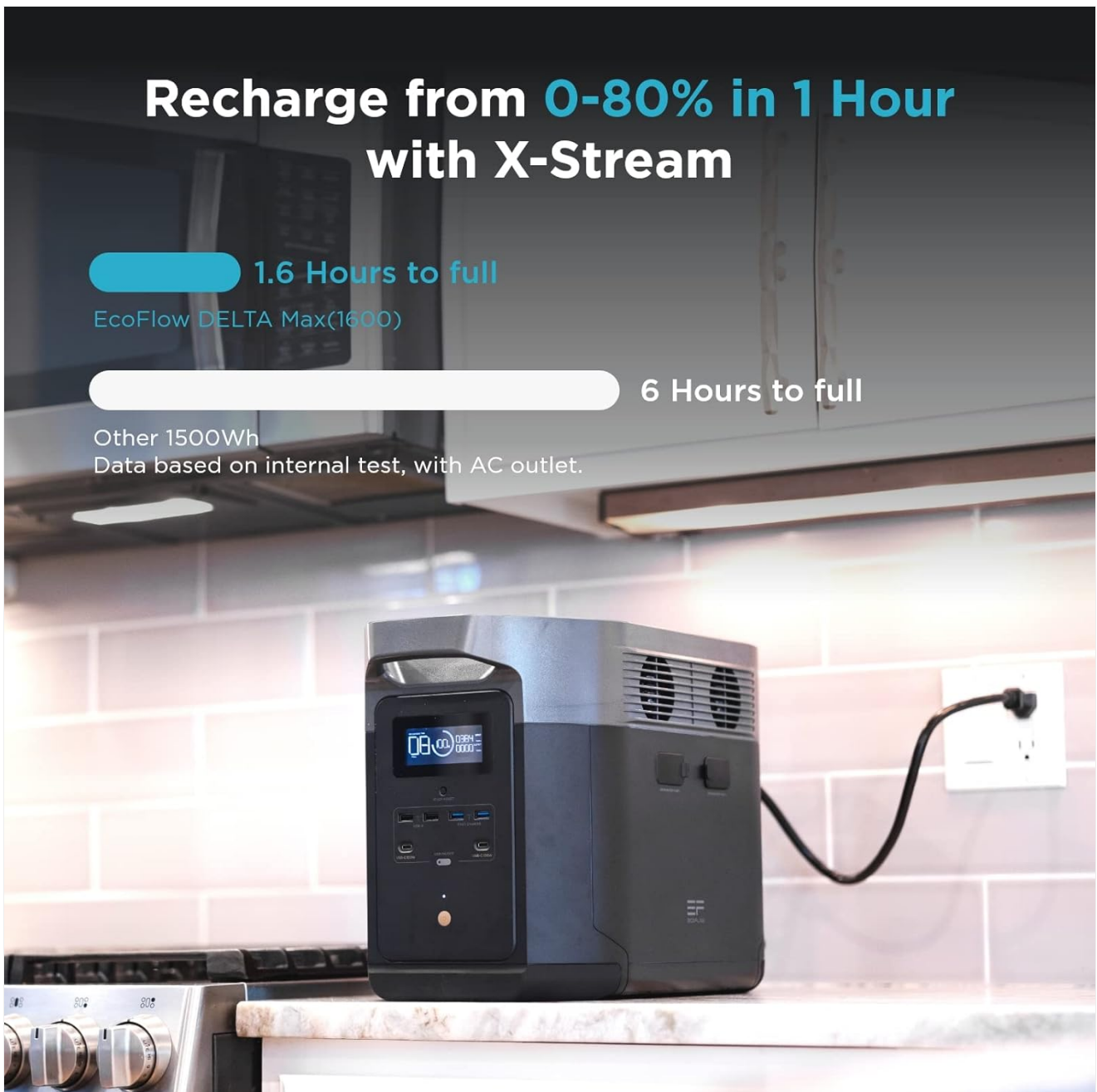
6.1 Turning On/Off

To turn on the DELTA Max, press and hold the main power button for 3 seconds. The LCD screen will illuminate. To turn off, press and hold the main power button again for 3 seconds until the screen turns off.

6.2 LCD Display

The LCD display provides real-time information on battery level, input/output power, remaining charge/discharge time, and warning indicators. Familiarize yourself with the icons and readings for effective monitoring.

6.3 Charging the DELTA Max



This image demonstrates the versatility of the DELTA Max (1600) by showing four distinct charging methods: AC wall outlet, connection to a Smart Generator, solar panels, and a 12V car outlet.

6.3.1 AC Charging

Expandable Capacity up to 5644Wh

67Hrs Backup Power* for Ourstage



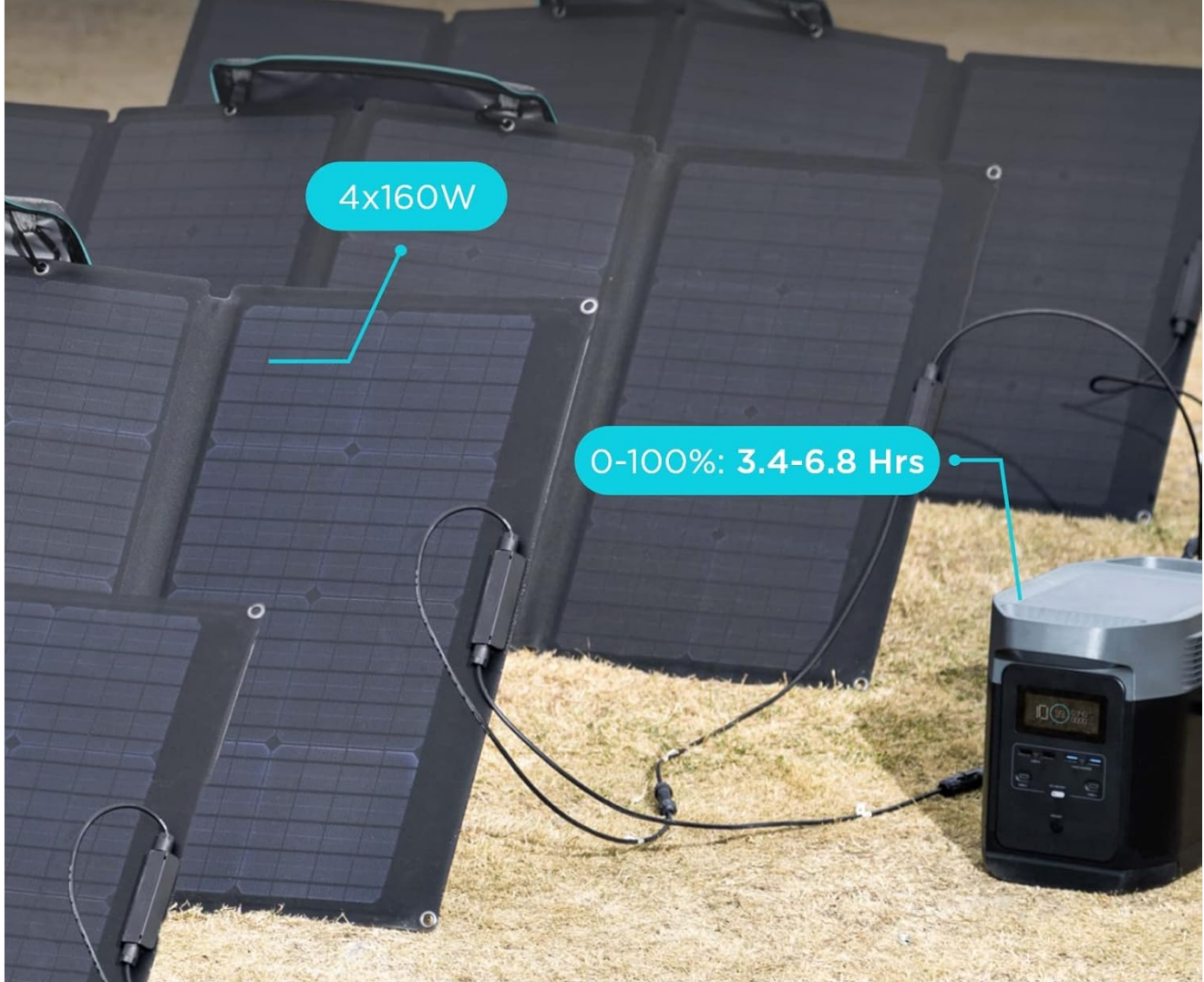
*67Hrs Emergency Use of 5644Wh (Charging for 18hrs Light, 24 hrs Fan, 72 hrs Router, 6 times Laptop and Phone, 2.8 Days Refrigerator)

This image illustrates the DELTA Max (1600) being charged from a standard AC wall outlet, emphasizing its rapid charging capability, reaching 80% in approximately 1 hour.

Connect the AC charging cable to a standard wall outlet. The DELTA Max features X-Stream technology, allowing it to charge from 0-80% in approximately 1 hour and 0-100% in 1.6 hours.

6.3.2 Solar Charging

Fast Solar Charging With MPPT Integrated 160W Portable Solar Panels



This image shows the DELTA Max (1600) connected to multiple 160W portable solar panels, demonstrating its solar charging capability with an estimated full charge time of 3.4-6.8 hours.

Connect compatible solar panels (up to 800W max) using the solar charging cable. Ensure panels are placed in direct sunlight for optimal charging. The integrated MPPT controller optimizes solar input.

6.3.3 Car Charging

Connect the car charging cable to your vehicle's 12V cigarette lighter port and to the DELTA Max. This method is suitable for charging on the go, though it is slower than AC or solar charging.

6.3.4 Dual Charging

Benefit from a Range of Charging Methods



This image depicts the DELTA Max (1600) undergoing rapid dual charging outdoors, utilizing both solar panels and an EcoFlow Smart Generator to achieve a full charge in approximately 1.6 hours.

Combine AC charging with the EcoFlow Smart Generator, or solar charging with the Smart Generator, for faster recharge times, especially useful in outdoor or emergency scenarios.

6.4 Discharging the DELTA Max

To use the power station, ensure it is turned on. Press the respective AC, DC, or USB power buttons to activate the desired output ports. The LCD screen will show the output wattage.

6.5 X-Boost Feature

Power 99% of Home Appliances with 2500W X-Boost Technology



This image demonstrates the DELTA Max (1600) powering common household appliances such as a refrigerator, coffee maker, microwave, air conditioner, and electric heater, showcasing its X-Boost technology.

The X-Boost mode allows the DELTA Max to power devices up to 2800W by lowering the voltage and current, preventing overload. This feature enables compatibility with a wider range of appliances, including those with higher wattage requirements.

6.6 Expandable Capacity

KEEP THE LIGHTS ON FOR LONGER

Increase the capacity of DELTA Max
up to 5.6kWh



This image shows two DELTA Max units connected, illustrating the expandable capacity feature that allows users to increase their power storage for extended home backup or emergency use.

The DELTA Max (1600) can be expanded from its base 1612Wh capacity up to 5644Wh by connecting additional DELTA Max Smart Extra Batteries. This provides extended power for longer durations.

6.7 EcoFlow App

SMART

Monitor From
Your Phone



CLEAN

Clean, Quiet & Fume-free



SAFE

BMS Protection



This image highlights the smart monitoring capabilities of the EcoFlow app, allowing users to track input/output power and battery status from their phone, alongside a visual representation of the unit's internal safety features.

Download the EcoFlow app to monitor and control your DELTA Max remotely. The app provides real-time power consumption data, charging status, and allows for firmware updates and settings adjustments.

7. Maintenance

Proper maintenance ensures the longevity and optimal performance of your DELTA Max (1600).

- **Storage:** Store the unit in a dry, well-ventilated area, away from direct sunlight and extreme temperatures. For long-term storage, discharge the battery to 30% and recharge to 60% every 3 months.
- **Cleaning:** Use a dry, soft cloth to clean the exterior of the unit. Do not use harsh chemicals or immerse the unit in water.
- **Battery Care:** Avoid fully discharging the battery frequently. It is recommended to keep the battery level above 20% when possible.

8. Troubleshooting

If you encounter issues with your DELTA Max, refer to the table below for common problems and solutions. If the problem persists, contact customer support.

Problem	Possible Cause	Solution
Unit does not turn on	Battery is completely discharged; Power button not held long enough	Charge the unit; Press and hold the power button for 3 seconds
AC outlets not working	AC output not enabled; Overload protection triggered	Press the AC power button; Reduce connected load or check X-Boost setting
Slow charging via solar	Insufficient sunlight; Panels not optimally angled; Dirty panels	Reposition panels for direct sunlight; Clean panels; Check cable connections
Unit making unusual noise	Cooling fan operating; Internal component issue	Normal operation for cooling; If excessive or persistent, contact support

9. Specifications

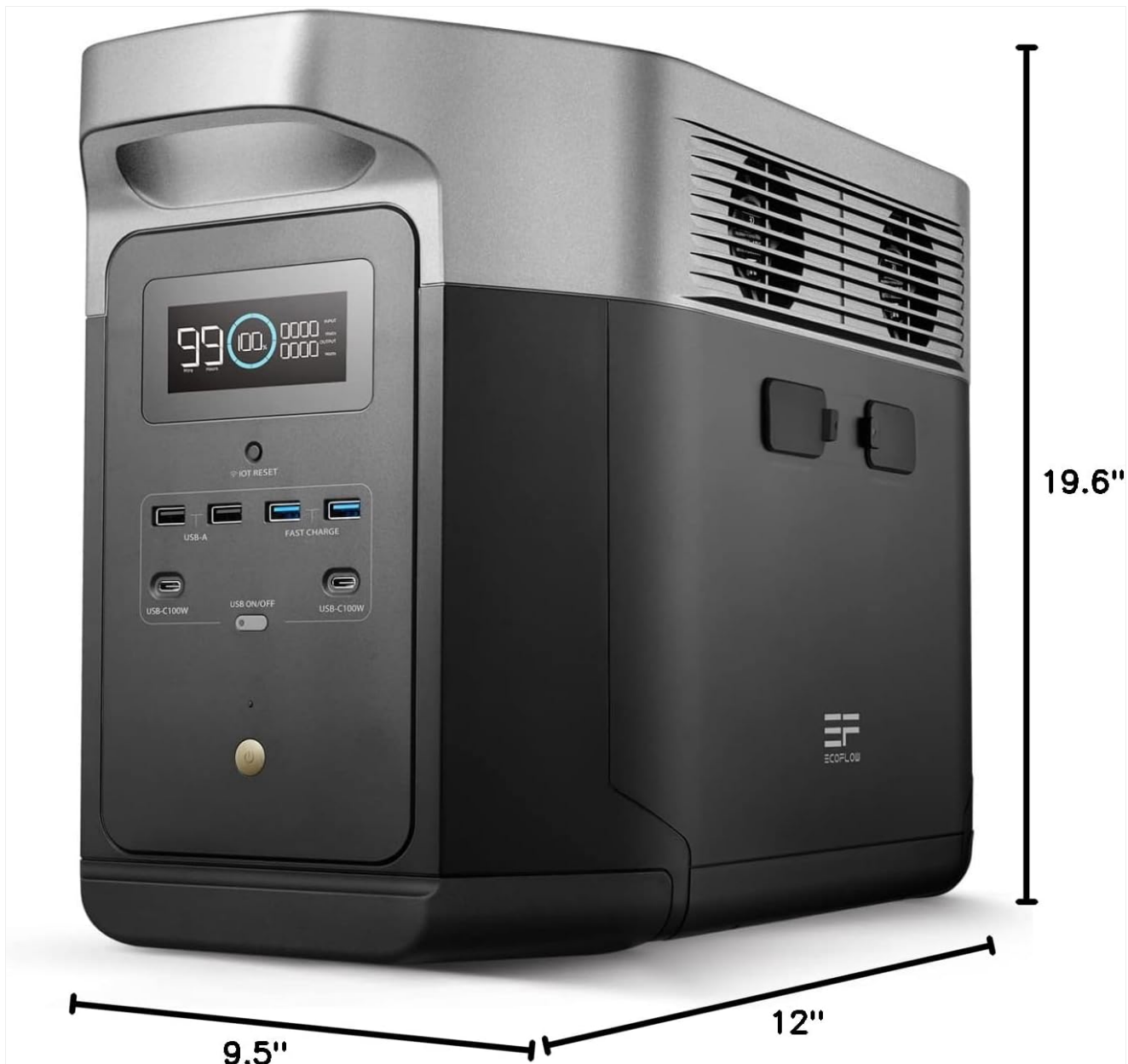
DELTA Max 1600

Specifications

Capacity	1612Wh
AC Output	6 outlets, 2000W total (Surge 4200W)
Max Device(s) Power Supported by X-Boost	2800W
AC Charging Input	1600W Max, 15A
Solar Charging Input	800W Max, 11-100V, 13A
Battery Chemistry	NCM
Cycle Life	800 cycles to 80% capacity
Net Weight	Approx. 46lbs
Dimensions	19.6*9.5*12 in

This image presents a detailed table outlining the key specifications of the DELTA Max 1600, such as its 1612Wh capacity, 2000W AC output, various charging inputs, battery chemistry, cycle life, net weight, and physical dimensions.

Feature	Detail
Capacity	1612Wh (Expandable up to 5644Wh)
AC Output	6 outlets, 2000W total (Surge 5000W)
Max Device(s) Power Supported by X-Boost	2800W
AC Charging Input	1600W Max, 15A
Solar Charging Input	800W Max, 11-100V, 13A
Battery Chemistry	NCM (Nickel Cobalt Manganese)
Cycle Life	800 cycles to 80% capacity
Net Weight	Approx. 46 lbs (20.9 kg)
Product Dimensions	19.6"L x 9.5"W x 12"H (49.8 x 24.1 x 30.5 cm)



This image provides a visual representation of the physical dimensions of the DELTA Max (1600), indicating its length (19.6"), width (9.5"), and height (12").

10. Warranty and Support

EF ECOFLOW products come with a limited warranty. For detailed warranty terms and conditions, please refer to the official EF ECOFLOW website or the warranty card included with your product. For technical support, troubleshooting assistance, or service inquiries, please contact EF ECOFLOW customer service through their official channels.

Website: www.ecoflow.com

Email: support@ecoflow.com