EF ECOFLOW EF-OS-SM003-SMSHEL

EcoFlow Smart Meter for STREAM Ultra/Pro/AC Pro User Manual

Model: EF-OS-SM003-SMSHEL

Introduction

The EcoFlow Smart Meter is designed to provide real-time, accurate monitoring of your household's electricity consumption. It seamlessly integrates with EcoFlow STREAM Ultra, STREAM Pro, and STREAM AC Pro systems to enable intelligent energy distribution based on your usage patterns. This manual provides essential information for the installation, operation, and maintenance of your Smart Meter.



Image: The EcoFlow Smart Meter, a compact device designed for energy monitoring and integration with EcoFlow power systems.

What's in the Box

Upon unpacking your EcoFlow Smart Meter, please ensure all components are present and undamaged. The standard package typically includes:

- EcoFlow Smart Meter Unit
- Current Transformers (CTs)
- Antennas (if applicable)
- Mounting Hardware

Note: The exact contents may vary based on your specific product package.

Setup and Installation

1. Safety Precautions

- **Always disconnect power** to the electrical panel before beginning any installation.
- Installation should be performed by a qualified electrician or in accordance with local electrical codes.
- Ensure proper grounding and wiring connections.

2. Physical Installation

1. Locate a suitable space within your electrical distribution panel for the Smart Meter.
2. Mount the Smart Meter securely within the panel.
3. Connect the current transformers (CTs) to the main incoming power lines or specific circuits you wish to monitor. Ensure correct phase orientation and direction of current flow as indicated on the CTs. For multi-phase systems, ensure each phase is correctly wired.
4. Connect the Smart Meter to your EcoFlow Stream Ultra/Pro/AC Pro system according to the specific wiring diagram provided with your Stream unit.
5. Attach any external antennas if supplied, ensuring they are positioned for optimal signal reception.



Image: A diagram illustrating the EcoFlow Smart Meter installed within an electrical panel, showing connections to circuit breakers and current transformers.

3. Software Configuration

1. Once physical installation is complete and power is restored, download the official EcoFlow app on your smartphone or tablet.
2. Open the EcoFlow app and follow the on-screen instructions to add a new device.
3. Connect the Smart Meter to your home Wi-Fi network via Bluetooth pairing with your mobile device, as guided by the app.
4. The app will guide you through initial calibration and verification of connections. It can detect incorrect phase wiring and prompt for correction.

Operating Instructions

The EcoFlow Smart Meter operates in conjunction with your EcoFlow Stream system and the EcoFlow mobile application.

1. Real-time Energy Monitoring

- Access the EcoFlow app to view real-time energy consumption data for your entire home or specific monitored circuits.
- The app displays active power, voltage, current, and historical usage data with 1% accuracy.

2. Intelligent Energy Allocation

- The Smart Meter communicates with your EcoFlow Stream Ultra/Pro/AC Pro to intelligently manage energy flow.
- Based on your configured settings in the EcoFlow app, the system can prioritize solar energy usage, optimize battery charging/discharging, and reduce reliance on grid power.
- Precise energy allocation ensures efficient use of generated and stored energy, adapting to your household's patterns.

Maintenance

- **Regular Checks:** Periodically inspect the Smart Meter and its connections within the electrical panel for any signs of wear, damage, or loose connections. Ensure power is disconnected before inspection.
- **Cleaning:** Keep the exterior of the Smart Meter clean and free from dust. Use a dry, soft cloth for cleaning. Do not use liquid cleaners or solvents.
- **Firmware Updates:** Ensure your EcoFlow app and Smart Meter firmware are kept up-to-date. Updates often include performance improvements and new features. The app will typically notify you of available updates.

Troubleshooting

Problem	Possible Cause	Solution
No data or incorrect readings in app	• Loose or incorrect wiring of CTs. • Incorrect phase connection (for multi-phase systems). • Smart Meter not powered. • App not connected to Smart Meter.	• **Disconnect power** and check all wiring connections, especially CT orientation and direction. • Verify phase connections according to installation diagrams. The EcoFlow app can help identify this. • Ensure the Smart Meter is receiving power. • Restart the EcoFlow app and re-establish connection.
Cannot connect to Wi-Fi/App	• Weak Wi-Fi signal. • Incorrect Wi-Fi password. • Bluetooth pairing issue.	• Ensure the Smart Meter is within range of your Wi-Fi router. Consider a Wi-Fi extender if necessary. • Double-check your Wi-Fi password. • Restart your phone's Bluetooth and try pairing again. • Reset the Smart Meter (refer to device instructions for reset procedure, if available).
System latency or slow response	• Network congestion. • Outdated firmware.	• Ensure your home network is stable. • Update the Smart Meter and EcoFlow app firmware to the latest versions.

If you encounter issues not listed here or require further assistance, please contact EcoFlow Customer Support.

Specifications

Feature	Detail
Model	EF-OS-SM003-SMSHEL
Brand	EF ECOFLOW
Measurement Accuracy	1% (Active Energy)
Integration	EcoFlow STREAM Ultra/Pro/AC Pro
Connectivity	Wi-Fi, Bluetooth (for setup)
ASIN	B0F2FSL6CC
First Available Date	March 25, 2025

Warranty Information

The EcoFlow Smart Meter comes with a limited warranty. For detailed information regarding warranty terms, coverage, and duration, please refer to the official EcoFlow website or the warranty card included with your product. Keep your proof of purchase for warranty claims.

Customer Support

For technical assistance, troubleshooting, or any inquiries regarding your EcoFlow Smart Meter, please visit the official EcoFlow support page or contact their customer service team:

- **Official Website:** www.ecoflow.com
- **Support Page:** Refer to the support section on the official website for FAQs, guides, and contact options.

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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