

Hoymiles HMS-800W-2T

Hoymiles HMS-800W-2T Microinverter User Manual

Model: HMS-800W-2T | Brand: Hoymiles

1. INTRODUCTION

The Hoymiles HMS-800W-2T is a high-performance microinverter designed for balcony power plants and small-scale solar installations. It efficiently converts direct current (DC) generated by solar panels into alternating current (AC) for household use, feeding directly into the grid. Featuring integrated WiFi, this microinverter allows for convenient monitoring and management of your solar energy system through a dedicated application.

2. SAFETY INSTRUCTIONS

Please read all safety instructions carefully before installation and operation. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Installation must be performed by qualified personnel in accordance with local electrical codes and regulations.
- Do not attempt to repair or disassemble the microinverter. Contact qualified service personnel for assistance.
- Ensure all DC and AC power sources are disconnected before performing any installation or maintenance.
- Avoid contact with live electrical parts.
- Do not install the microinverter in direct sunlight, rain, or snow without proper protection.
- Keep children away from the installation area.

3. PRODUCT OVERVIEW

The HMS-800W-2T microinverter is a compact and robust device designed for outdoor use. It features two independent Maximum Power Point Tracking (MPPT) inputs, allowing connection of up to two solar panels for optimized energy harvesting. The integrated WiFi module enables seamless communication with the Hoymiles monitoring platform.

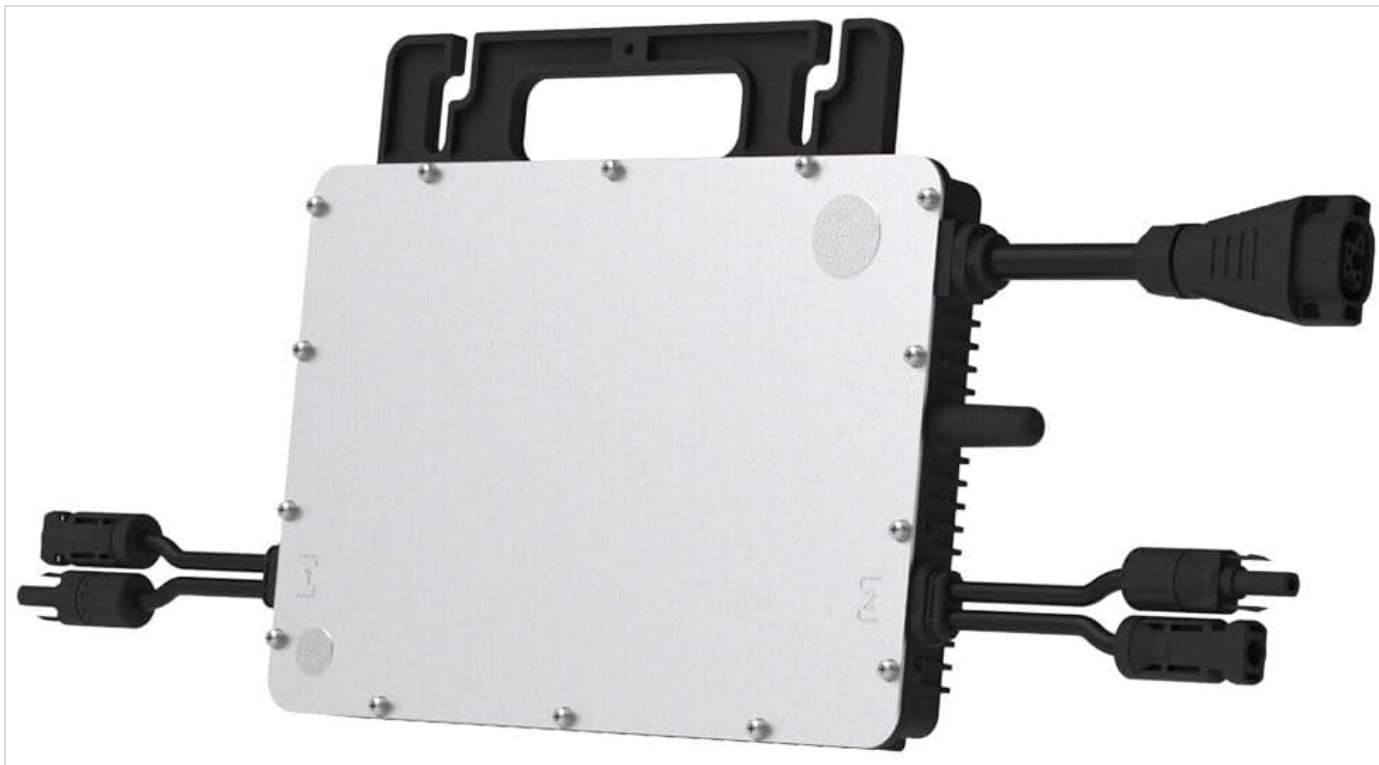


Figure 3.1: Front view of the Hoymiles HMS-800W-2T Microinverter, showing its compact design and mounting bracket.



Figure 3.2: Rear view of the Hoymiles HMS-800W-2T Microinverter, illustrating the DC input connectors for solar panels and the AC output cable for grid connection.

4. SETUP AND INSTALLATION

4.1 Pre-installation Check

Before beginning installation, ensure all components are present and undamaged:

- Hoymiles HMS-800W-2T Microinverter
- Mounting hardware (if included)
- AC connection cable (if included)

4.2 Mounting the Microinverter

Mount the microinverter securely to a stable structure, such as a balcony railing or wall, using appropriate mounting hardware. Ensure adequate ventilation around the unit to prevent overheating. The inverter should be mounted with a slight tilt to allow for water drainage.

4.3 Electrical Connections

1. **DC Input:** Connect the DC cables from your solar panels to the corresponding DC input connectors on the microinverter. Ensure correct polarity (+ to + and - to -). The HMS-800W-2T supports two solar panels.
2. **AC Output:** Connect the AC output cable from the microinverter to your household electrical system. This typically involves plugging it into a standard wall socket (Schuko or Wieland, depending on local regulations) or connecting it directly to your distribution board via a qualified electrician.
3. **Grounding:** Ensure the microinverter is properly grounded according to local electrical codes.

4.4 WiFi Setup

The integrated WiFi module allows for monitoring via the Hoymiles S-Miles Cloud app. Download the app from your smartphone's app store. Follow the in-app instructions to register your microinverter and connect it to your home WiFi network. This will enable real-time performance monitoring and data logging.

5. OPERATING INSTRUCTIONS

Once all connections are secure and the microinverter is powered on, it will automatically begin converting solar energy. The LED indicator on the unit will show its operational status.

- **Normal Operation:** When sufficient sunlight is available, the microinverter will start producing power. The LED indicator will typically be solid green or flash according to its status (refer to the full manual for specific LED codes).
- **Monitoring:** Use the Hoymiles S-Miles Cloud app to monitor the real-time power output, daily energy production, and historical data of your solar system.
- **Shutdown:** To shut down the system, disconnect the AC power first, then the DC power from the solar panels.

6. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your microinverter.

- **Cleaning:** Periodically clean the exterior of the microinverter to remove dust, dirt, and debris. Use a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Inspection:** Annually inspect all electrical connections for tightness and signs of corrosion. Check the mounting hardware for security.
- **Ventilation:** Ensure that the ventilation fins are not blocked by debris or vegetation.

7. TROUBLESHOOTING

This section provides solutions to common issues you might encounter.

Problem	Possible Cause	Solution
---------	----------------	----------

Problem	Possible Cause	Solution
No power output	Insufficient sunlight; AC or DC cables disconnected; Inverter fault.	Check sunlight conditions. Verify all cable connections are secure. If problem persists, contact support.
Low power output	Partial shading of panels; Dirty panels; Suboptimal panel angle.	Clear any shading. Clean solar panels. Adjust panel angle if possible.
WiFi connection issues	Weak WiFi signal; Incorrect network credentials; Router issues.	Ensure inverter is within WiFi range. Re-enter WiFi credentials in the app. Restart your router.
LED indicator shows error	Internal fault; Grid instability; Over-temperature.	Refer to the full product manual for specific LED error codes and corresponding solutions. Contact support if necessary.



8. SPECIFICATIONS


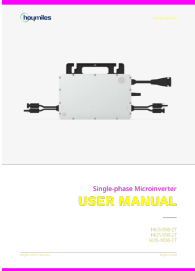


Key technical specifications for the Hoymiles HMS-800W-2T Microinverter:

- Model Name:** HMS-800W-2T
- Brand:** Hoymiles
- Power Source:** Solar-powered
- Recommended Applications:** Small solar power systems, ideal for residential applications (e.g., balcony power plants)
- Included Components:** Microinverter
- Packaging Dimensions:** 43 x 35 x 26 cm
- Weight:** 5 Kilograms
- Country of Origin:** China

© 2024 Hoymiles. All rights reserved.
For further assistance, please refer to the official Hoymiles website or contact customer support.

Related Documents - HMS-800W-2T

	<p>Hoymiles HMS Series Single-Phase Microinverter User Manual</p> <p>User manual for Hoymiles HMS-600W to 1000W-2T single-phase microinverters, covering installation, operation, safety, and troubleshooting for solar power systems.</p>
	<p>Hoymiles HMS-1000W-2T Bedienungsanleitung: Einphasiger Mikro-Wechselrichter</p> <p>Umfassende Bedienungsanleitung für den Hoymiles einphasigen Mikro-Wechselrichter der HMS-1000W Serie. Enthält Installationsanweisungen, Sicherheitshinweise, technische Daten und Fehlerbehebung für Modelle wie HMS-600W-2T, HMS-700W-2T, HMS-800W-2T, HMS-900W-2T und HMS-1000W-2T.</p>

	<p>Hoymiles HMS Serie Einphasiger Mikro-Wechselrichter: Bedienungsanleitung</p> <p>Umfassende Installations-, Betriebs- und Wartungsanleitung für Hoymiles einphasige Mikro-Wechselrichter der HMS-Serie (HMS-600W-2T bis HMS-1000W-2T). Enthält technische Daten, Sicherheitshinweise und Fehlerbehebung.</p>
	<p>Hoymiles Single-Phase Microinverter HMS-800/900/1000-2T User Manual</p> <p>Comprehensive user manual for Hoymiles Single-Phase Microinverters, models HMS-800-2T, HMS-900-2T, and HMS-1000-2T. Covers installation, operation, troubleshooting, and technical specifications for efficient solar energy conversion.</p>
	<p>Hoymiles HMS-800-2T/900-2T/1000-2T Single-Phase Microinverter User Manual</p> <p>Comprehensive user manual for Hoymiles HMS-800-2T, HMS-900-2T, and HMS-1000-2T single-phase microinverters. Covers installation, safety, troubleshooting, technical data, and wiring diagrams for solar PV systems.</p>
	<p>Hoymiles HMS Series Microinverter Datasheet - HMS-700-2T-NA to HMS-1000-2T-NA</p> <p>Datasheet for Hoymiles HMS series 2-in-1 microinverters (HMS-700-2T-NA, HMS-800-2T-NA, HMS-900-2T-NA, HMS-1000-2T-NA), detailing technical specifications, features, and compliance for high-powered solar panel installations.</p>