

# Microinverter Datasheet

- HMS-600W-2T**
- HMS-700W-2T**
- HMS-800W-2T**
- HMS-900W-2T**
- HMS-1000W-2T**

## Description

Hoymiles HMS-1000W series microinverters are specifically designed for mini PV systems, such as balcony systems, and feature an integrated industrial+ grade Wi-Fi module.

With the user-friendly HMS Plug and Play Cable, installation is effortless. Users can connect the microinverter directly to a socket—no complex wiring is required.

Additionally, system monitoring is simplified for the HMS-1000W series with two convenient options: real-time monitoring via Direct Connection and remote control through the S-Miles Cloud platform.

## Features

- |   |  |
|---|--|
| <p><b>01</b> Plug-and-play design for balcony solar systems</p>                                 | <p><b>04</b> Output power setting function to customize performance</p>                  |
| <p><b>02</b> Built-in industrial+ grade Wi-Fi module for high reliability</p>                   | <p><b>05</b> Enhanced safety with rapid shutdown compliance and isolated transformer</p> |
| <p><b>03</b> Two options for monitoring and management: Direct Connection and S-Miles Cloud</p> | <p><b>06</b> High-powered microinverter with up to 1000 VA output</p>                    |

# Technical Specifications

| Model  | HMS-600W-2T   | HMS-700W-2T          | HMS-800W-2T          | HMS-900W-2T          | HMS-1000W-2T         |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
|--|---|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| <b>Input Data (DC)</b>                       |   |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| Commonly used module power (W)               | 240 to 405+   | 280 to 470+          | 320 to 540+          | 360 to 600+          | 400 to 670+          |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| Maximum input voltage (V)                    | 60  | 60                   | 65                   | 65                   | 65                   |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| MPPT voltage range (V)                       | 16-60   |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| Min./Max. start voltage (V)                  | 22/60   |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| Maximum input current (A)                    | 2 × 12  | 2 × 13               | 2 × 14               | 2 × 15               | 2 × 16               |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| Maximum input short circuit current (A)      | 2 × 20  | 2 × 20               | 2 × 25               | 2 × 25               | 2 × 25               |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| Number of MPPTs                              | 2   |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| Number of inputs per MPPT                    | 1   |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| <b>Output Data (AC)</b>                      |   |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| Rated output power (VA)                      | 600   | 700                  | 800                  | 900                  | 1000                 |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| Rated output current (A)                     | 2.73<br>220/<br>230/  | 2.61<br>240/<br>220/ | 2.50<br>230/<br>240/ | 3.18<br>220/<br>230/ | 3.04<br>240/<br>220/ | 2.92<br>230/<br>240/ | 3.64<br>220/<br>230/ | 3.48<br>240/<br>220/ | 3.33<br>230/<br>240/ | 4.09<br>220/<br>230/ | 3.91<br>240/<br>220/ | 3.75<br>230/<br>240/ | 4.55<br>220/<br>230/ | 4.35<br>240/<br>220/ | 4.17<br>230/<br>240/ |
| Nominal output voltage/range (V)*            | 180-275 180-275 180-275 180-275 180-275 180-275 180-275 180-275 180-275 180-275 180-275 180-275 180-275 180-275 180-275 |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| Nominal frequency/range (Hz)*                | 50/45-55  |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| Adjustable power factor (@nominal power)     | >0.99 default<br>0.8 leading ... 0.8 lagging  |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| Total harmonic distortion (@nominal power)   | < 3%  |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| Maximum units per 2.5 mm <sup>2</sup> line** | 8   | 9                    | 9                    | 7                    | 7                    | 8                    | 6                    | 6                    | 7                    | 5                    | 6                    | 6                    | 5                    | 5                    | 5                    |
| <b>HMS Plug and Play Cable (Optional)</b>    |   |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| Connector type                               | HMS Field Connector   |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| Cable size                                   | 1.5 mm <sup>2</sup>   |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| Cable length                                 | 3 m (Customizable)  |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| Plug type                                    | Schuko  |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| <b>Efficiency</b>                            |   |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| CEC peak efficiency                          | 96.70%  | 96.70%               | 96.70%               | 96.50%               | 96.50%               |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| Nominal MPPT efficiency                      | 99.80%  |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| Night power consumption (mW)                 | < 50  |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| <b>Mechanical Data</b>                       |   |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| Ambient temperature range (°C)               | -40 to +65  |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| Storage temperature range (°C)               | -40 to +85  |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| Dimensions (W × H × D [mm])                  | 261 × 180 × 35.1  |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |

# Technical Specifications

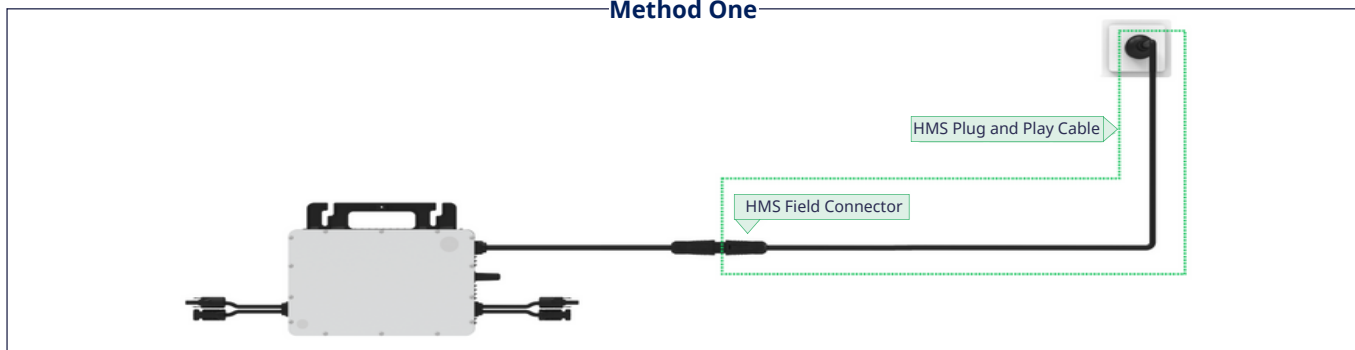
| Model            | HMS-600W-2T  | HMS-700W-2T | HMS-800W-2T | HMS-900W-2T | HMS-1000W-2T |
|------------------|--|-------------|-------------|-------------|--------------|
| Weight (kg)      | 3.2  |             |             |             |              |
| Enclosure rating | Outdoor-IP67   |             |             |             |              |
| Cooling          | Natural convection – No fans   |             |             |             |              |
| <b>Features</b>  |  |             |             |             |              |
| Communication    |  |             |             |             |              |
| Topology         | Built-in Wi-Fi   |             |             |             |              |
| Monitoring       |  |             |             |             |              |
|                  | Galvanically Isolated HF Transformer   |             |             |             |              |
|                  | Toolkit or S-Miles Cloud (Hoymiles Monitoring Platform)  |             |             |             |              |
| Compliance       | VDE-AR-N 4105: 2018, EN 50549-1: 2019, VFR 2019, IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4, IEC/EN 61000-3-2/-3 |             |             |             |              |

\* : Nominal voltage/frequency range may vary based on local requirements.

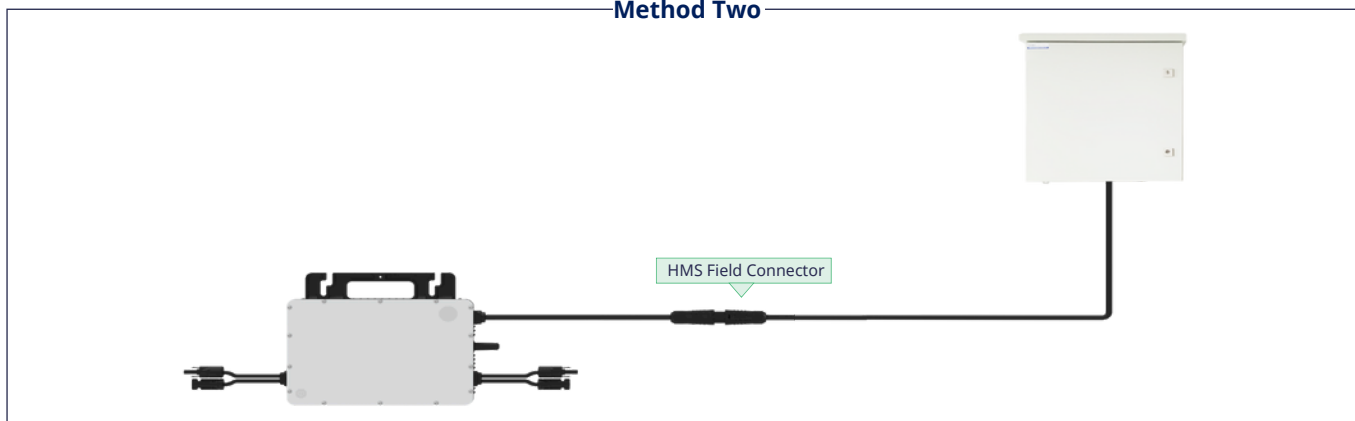
\*\* : Refer to local requirements for exact number of microinverters per AC output line.

## Wiring Diagram

Method One

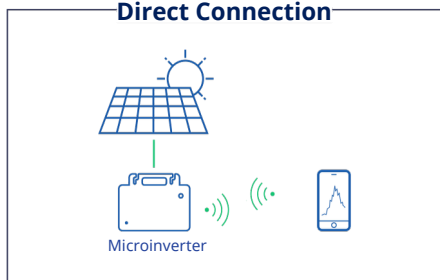


Method Two

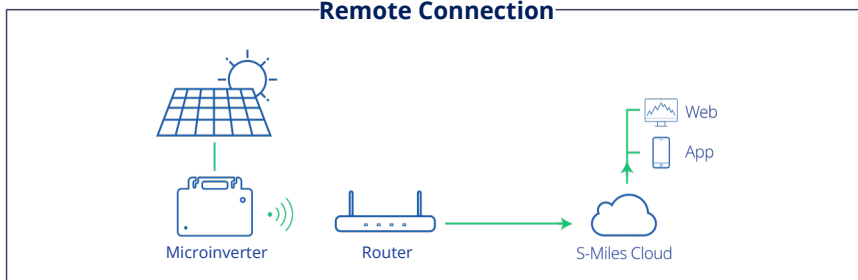


## Communication Diagram

Direct Connection



Remote Connection



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