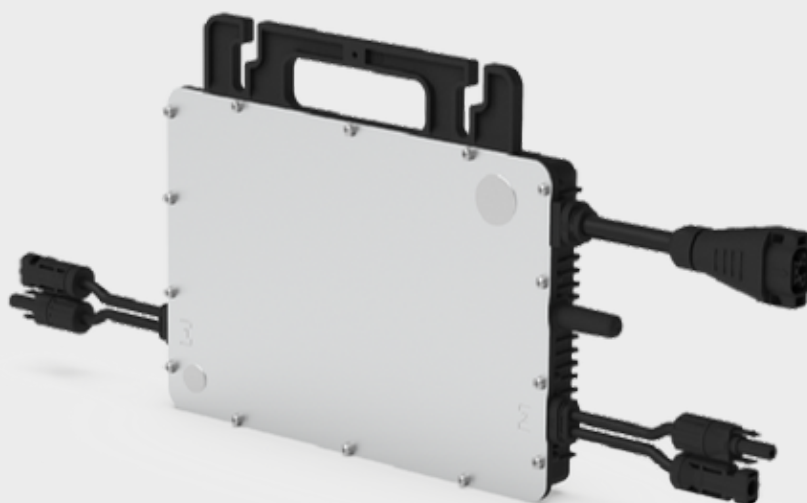




# Microinverter Datasheet

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

## Description

With the output power up to 1000 VA, Hoymiles new microinverter HMS-1000-2T series rank among the highest for 2-in-1 microinverters.

Each microinverter can connect up to 2 panels, with independent MPPT and monitoring maximizing the power production of your installation.

The new Sub-1G wireless solution enables more stable communication with Hoymiles gateway DTU.

## Features

- 011 High-powered microinverter for 2-in-1 with output power up to 1000 VA
- 023 With Reactive Power Control, compliant with EN 50549-1:2019, VDE-AR-N 4105:2018, VFR2019, etc.
- 0053 Safer for rooftop solar stations with rapid shutdown compliance and isolated transformer

- 04 Independent MPPT and monitoring ensure greater energy harvest and easier maintenance
- 05 2-in-1 design enables faster installation
- 06 Sub-1G wireless solution allows stable communication in commercial and industrial settings

## Technical Specifications

| Model                                      | HMS-600-2T  | HMS-700-2T  | HMS-800-2T                                                                                                           | HMS-900-2T  | HMS-1000-2T |
|--------------------------------------------|-------------|-------------|----------------------------------------------------------------------------------------------------------------------|-------------|-------------|
| <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) MPPT             | 60          | 60          | 65                                                                                                                   | 65          | 65          |
| voltage range (V) Start-up voltage         |             |             | 16-60                                                                                                                |             |             |
| (V) Maximum input current (A)              |             |             | 22                                                                                                                   |             |             |
| Maximum input short circuit current (A)    |             |             |                                                                                                                      |             |             |
| Number of MPPTs Number of                  | 2 × 11.5    | 2 × 11.5    | 2 × 12.5                                                                                                             | 2 × 13.3    | 2 × 14      |
| inputs per MPPT                            | 2 × 16      | 2 × 16      | 2 × 20                                                                                                               | 2 × 20      | 2 × 20      |
| <b>Output Data (AC)</b>                    |             |             |                                                                                                                      |             |             |
| Rated output power (VA) Rated              |             |             | 2                                                                                                                    |             |             |
| output current (A) Nominal output          |             |             | 1                                                                                                                    |             |             |
| voltage/range (V)* Nominal                 |             |             |                                                                                                                      |             |             |
| frequency/range (Hz)*                      | 600         | 700         | 800                                                                                                                  | 900         | 1000        |
|                                            | 2.61        | 3.04        | 3.48                                                                                                                 | 3.91        | 4.35        |
|                                            |             |             | 230/180-275                                                                                                          |             |             |
|                                            |             |             | 50/45-55                                                                                                             |             |             |
| Adjustable power factor (@nominal power)   |             |             | > 0.99 default<br>0.8 leading ... 0.8 lagging<br>< 3%                                                                |             |             |
| Total harmonic distortion (@nominal power) |             |             |                                                                                                                      |             |             |
| Maximum units per 10AWG branch**           | 12          | 10          | 9                                                                                                                    | 8           | 7           |
| Maximum units per 12AWG branch**           | 7           | 6           | 5                                                                                                                    | 5           | 4           |
| <b>Efficiency</b>                          |             |             |                                                                                                                      |             |             |
| CEC peak efficiency                        | 96.7%       | 96.7%       | 96.7%                                                                                                                | 96.5%       | 96.5%       |
| Nominal MPPT efficiency                    |             |             | 99.8%                                                                                                                |             |             |
| Night power consumption (mW)               |             |             | < 50                                                                                                                 |             |             |
| <b>Mechanical Data</b>                     |             |             |                                                                                                                      |             |             |
| Ambient temperature range (°C)             |             |             | -40 to +65                                                                                                           |             |             |
| Dimensions (W × H × D [mm])                |             |             | 261 × 180 × 35.1                                                                                                     |             |             |
| Weight (kg)                                |             |             | 3.2                                                                                                                  |             |             |
| Enclosure rating                           |             |             | Outdoor-IP67                                                                                                         |             |             |
| Cooling                                    |             |             | Natural convection-No fans                                                                                           |             |             |
| <b>Features</b>                            |             |             |                                                                                                                      |             |             |
| Communication                              |             |             | Sub-1G                                                                                                               |             |             |
| Type of isolation                          |             |             | Galvanically Isolated HF Transformer                                                                                 |             |             |
| Monitoring                                 |             |             | S-Miles Cloud (Hoymiles Monitoring Platform)                                                                         |             |             |
| Compliance                                 |             |             | EN 50549-1: 2019, VDE-AR-N 4105: 2018, VFR2019,<br>IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4, IEC/EN 61000-3-2/-3 |             |             |

\* : Nominal voltage/frequency range can vary depending on local requirements.

\*\* : Refer to local requirements for exact number of microinverters per branch.

