



# Microinverter Datasheet

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

## Description

With the output power up to 1000 VA, Hoymiles new microinverter HMS-1000 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

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|-----------|--|-----------|--|
| <b>01</b> | High-powered microinverter for 2-in-1 with output power up to 1000 VA                          | <b>04</b> | Independent MPPT and monitoring ensure greater energy harvest and easier maintenance       |
| <b>02</b> | With Reactive Power Control, compliant with EN 50549-1:2019, VDE-AR-N 4105:2018, VFR2019, etc. | <b>05</b> | 2-in-1 design enables faster installation  |
| <b>03</b> | Safer for rooftop solar stations with rapid shutdown compliance and isolated transformer       | <b>06</b> | 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)	60	60	65	65	65
MPPT voltage range (V)	16-60				
Start-up voltage (V)	22				
Maximum input current (A)	2 × 11.5	2 × 11.5	2 × 12.5	2 × 13.3	2 × 14
Maximum input short circuit current (A)	2 × 16	2 × 16	2 × 20	2 × 20	2 × 20
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)	2.61	3.04	3.48	3.91	4.35
Nominal output voltage/range (V) <sup>1</sup>	230/180-275				
Nominal frequency/range (Hz) <sup>1</sup>	50/45-55				
Power factor (adjustable)	> 0.99 default 0.8 leading...0.8 lagging				
Total harmonic distortion	< 3%				
Maximum units per 10AWG branch <sup>2</sup>	12	10	9	8	7
Maximum units per 12AWG branch <sup>2</sup>	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 × 31				
Weight (kg)	3.1				
Enclosure rating	Outdoor-IP67 (NEMA 6)				
Cooling	Natural convection-No fans				
<b>Features</b>					
Communication	Sub-1G				
Type of isolation	Galvanically Isolated HF Transformer				
Monitoring	Hoymiles S-Miles Cloud <sup>3</sup>				
Compliance	EN 50549-1: 2019, VDE-AR-N 4105: 2018, VFR2019, IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4, IEC/EN 61000-3-2/-3				

\*1 Nominal voltage/frequency range can vary depending on local requirements.

\*2 Refer to local requirements for exact number of microinverters per branch.

\*3 Hoymiles Monitoring System