



# Microinverter Datasheet

**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

- 01 High-powered microinverter for 2-in-1 with output power up to 1000 VA
- 02 With Reactive Power Control, compliant with EN 50549-1:2019, VDE-AR-N 4105:2018, UL 1741, ABNT NBR 16150, etc.
- 03 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-800-2T			HMS-900-2T			HMS-1000-2T		
<b>Input Data (DC)</b>									
Commonly used module power (W)	320 to 540+			360 to 600+			400 to 670+		
Maximum input voltage (V)				65					
MPPT voltage range (V)				16-60					
Start-up voltage (V)				22					
Maximum input current (A)	2 × 14			2 × 15			2 × 16		
Maximum input short circuit current (A)				2 × 25					
Number of MPPTs				2					
Number of Inputs per MPPT				1					
<b>Output Data (AC)</b>									
Rated output power (VA)	800			900			1000		
Rated output current (A)	3.64	3.48	3.33	4.09	3.91	3.75	4.55	4.35	4.17
Nominal output voltage/range (V) <sup>1</sup>	220/180-275	230/180-275	240/180-275	220/180-275	230/180-275	240/180-275	220/180-275	230/180-275	240/180-275
Nominal frequency/range (Hz) <sup>1</sup>				50/45-55 or 60/55-65					
Power factor (adjustable)				> 0.99 default 0.8 leading...0.8 lagging					
Total harmonic distortion				< 3%					
Maximum units per 10AWG branch <sup>2</sup>	8	9	9	7	8	8	7	7	7
Maximum units per 12AWG branch <sup>2</sup>	5	5	6	4	5	5	4	4	4
<b>Efficiency</b>									
CEC peak efficiency	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 (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, UL 1741, ABNT NBR 16150, 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