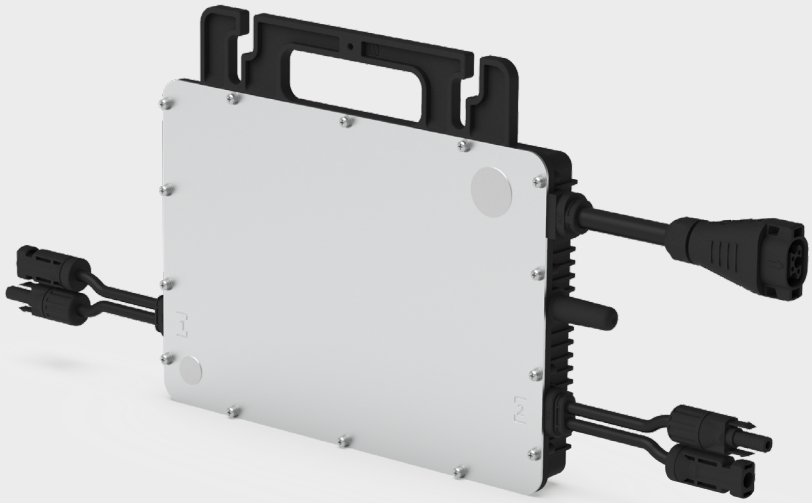

Microinverter Datasheet

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

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Technical Specifications

Model	HMS-800-2T			HMS-900-2T			HMS-1000-2T		
Input Data (DC)									
Commonly used module power (W)	320 to 500+			360 to 565+			400 to 625+		
Maximum input voltage (V)	65								
MPPT voltage range (V)	16-60								
Start-up voltage (V)	22								
Maximum input current (A)	2 × 12.5			2 × 13.3			2 × 14		
Maximum input short circuit current (A)	2 × 20								
Output Data (AC)									
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)[1]	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)[1]	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[2]	8	9	9	7	8	8	7	7	7
Maximum units per 12AWG branch[2]	5	5	6	4	5	5	4	4	4
Efficiency									
CEC peak efficiency	96.5%								
Nominal MPPT efficiency	99.8%								
Night power consumption (mW)	< 50								
Mechanical Data									
Ambient temperature range (°C)	-40 to +65								
Dimensions (W × H × D mm)	261 × 223 × 31								
Weight (kg)	3.1								
Enclosure rating	Outdoor-IP67 (NEMA 6)								
Cooling	Natural convection-No fans								
Features									
Communication	Sub-1G								
Type of isolation	Galvanically Isolated HF Transformer								
Monitoring	Hoymiles S-Miles Cloud[3]								
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

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