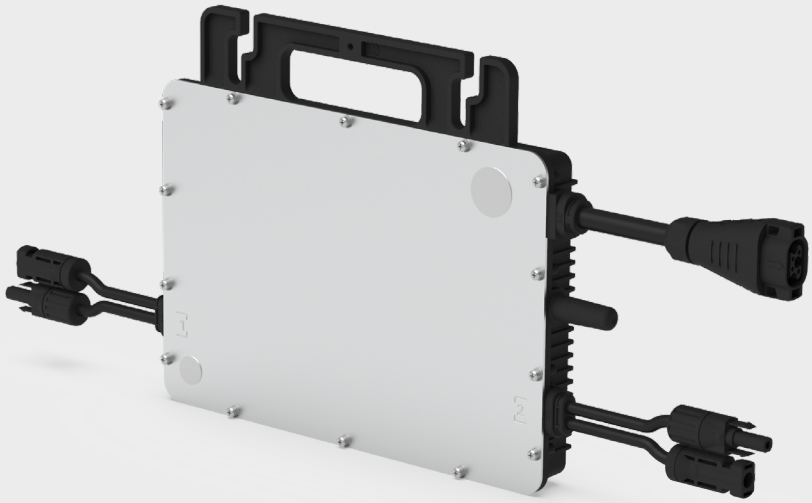

Microinverter Datasheet

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

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, 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 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								
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)*	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)*	50/45–55 or 60/55–65								
Adjustable Power factor (@nominal power)	> 0.99 default 0.8 leading...0.8 lagging								
Total harmonic distortion (@nominal power)	< 3%								
Maximum units per 2.5 mm² branch**	6	6	7	5	6	6	5	5	5
Maximum units per 4 mm² branch**	8	9	9	7	8	8	7	7	7
Maximum units per 6 mm² branch**	11	11	12	9	10	10	8	9	9
Efficiency									
CEC peak efficiency	96.7%			96.5%			96.5%		
Nominal MPPT efficiency	99.8%								
Night power consumption (mW)	< 50								
Mechanical Data									
Ambient temperature range (℃)	-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								
Features									
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, UL 1741, IEC 61727, IEC 62116, IEC 61683, IEC/EN 60068-2-1/-2/-14/-30, AS/NZS 4777.2:2020, 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.

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