



Microinverter Datasheet

HMS-2000

Description

With the output power up to 2000 VA, Hoymiles new microinverter HMS-2000 series rank among the highest for 4-in-1 microinverters.

All of these three models listed are equipped with reactive power control and can meet the requirements of EN 50549-1:2019, VDE-AR-N 4105:2018, UL 1741, etc.

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

Features

- 01 High-powered microinverter with output power up to 2000 VA
- 02 Independent MPPT and monitoring ensure greater energy harvest and easier maintenance
- 03 With Reactive Power Control, compliant with EN 50549-1:2019, VDE-AR-N 4105:2018, UL 1741, ABNT NBR 16150, etc.

- 04 4-in-1 design enables faster installation and comes with a lower cost
- 05 Safer for rooftop solar stations with rapid shutdown compliance and isolated transformer
- 06 Sub-1G wireless solution allows stable communication in commercial and industrial settings

Technical Specifications

Model	HMS-2000-4T			
Input Data (DC)				
Commonly used module power (W)	400 to 670+			
Maximum input voltage (V)	65			
MPPT voltage range (V)	16-60			
Start-up voltage (V)	22			
Maximum input current (A)	4 × 16			
Maximum input short circuit current (A)	4 × 25			
Number of MPPTs	4			
Number of Inputs per MPPT	1			
Output Data (AC)				
Rated output power (VA)	2000			
Rated output current (A)	9.62	9.09	8.70	8.33
Nominal output voltage	208	220	230	240
Nominal output range (V) ¹	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	3	3	3	3
Efficiency				
CEC peak efficiency	96.50%			
Nominal MPPT efficiency	99.80%			
Night power consumption (mW)	< 50			
Mechanical Data				
Ambient temperature range (°C)	-40 to +65			
Dimensions (W × H × D mm)	331 × 218 × 40.6			
Weight (kg)	5.56			
Enclosure rating	Outdoor-IP67 (NEMA 6)			
Cooling	Natural convection-No fans			
Features				
Communication	Sub-1G			
Type of isolation	Galvanically Isolated HF Transformer			
Monitoring	S-Miles Cloud ³			
Compliance	UL 1741, ABNT NBR 16150:2013, ABNT NBR 16149:2013			

*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