



Microinverter Datasheet

HMS-1600
HMS-1800
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.

Each microinverter can connect up to 4 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 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-1600-4T			HMS-1800-4T			HMS-2000-4T		
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)	4 × 12.5			4 × 13.3			4 × 14		
Maximum input short circuit current (A)				4 × 20					
Number of MPPTs				4					
Number of Inputs per MPPT				1					
Output Data (AC)									
Rated output power (VA)	1600			1800			2000		
Rated output current (A)	7.27	6.96	6.67	8.18	7.83	7.5	9.09	8.7	8.33
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	4	4	4	3	4	4	3	3	3
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 (°C)				-40 to +65					
Dimensions (W × H × D mm)				331 × 218 × 36.6					
Weight (kg)				4.7					
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				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