



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.

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-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 × 14				4 × 15				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)	1600				1800				2000			
Rated output current (A)	7.69	7.27	6.96	6.67	8.65	8.18	7.83	7.50	9.62	9.09	8.70	8.33
Nominal output voltage	208	220	230	240	208	220	230	240	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	4	4	4	4	3	3	4	4	3	3	3	3
Efficiency												
CEC peak efficiency	96.70%				96.50%				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