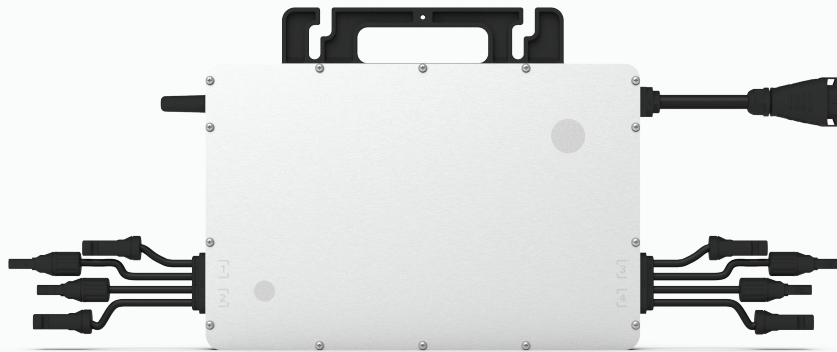




Microinverter Datasheet

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 | 04 | 4-in-1 design enables faster installation and comes with a lower cost |
| 02 | Independent MPPT and monitoring ensure greater energy harvest and easier maintenance | 05 | Safer for rooftop solar stations with rapid shutdown compliance and isolated transformer |
| 03 | With Reactive Power Control, compliant with EN 50549-1:2019, VDE-AR-N 4105:2018, UL 1741, ABNT NBR 16150, etc. | 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)	7.27	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										

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