



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

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| 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 500+			360 to 565+			400 to 625+		
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		
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				96.5%					
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 × 34.6					
Weight (kg)				4.7					
Enclosure rating				Outdoor-IP67 (NEMA 6)					
Cooling				Natural convection-No fans					
Features									
Communication				Sub-1G					
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