



Microinverter Datasheet

HMS-1600-4T-NA
HMS-1800-4T-NA
HMS-2000-4T-NA

Description

Hoymiles new microinverter HMS-2000 series are suitable for high-powered solar panels, which rank among the highest for 4-in-1 microinverters.

Each microinverter can connect up to 4 panels, with independent MPPT and module-level monitoring maximizing the power production of your installation. With a maximum DC voltage of 65 volts, Hoymiles microinverter is a PV Rapid Shutdown Equipment and conforms with NEC-2017 and NEC-2020 Article 690.12 and CEC-2021 Sec 64-218.

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

Features

- 01 High-powered microinverter for 4-in-1 series with superior performance
- 02 Safer for rooftop solar stations with PV rapid shutdown compliance
- 03 With Reactive Power Control, compliant with UL 1741, IEEE 1547, UL 1741 SB, etc.

- 04 Independent MPPT and monitoring ensure greater energy harvest and easier maintenance
- 05 4-in-1 design enables most cost-effective solar solution
- 06 Sub-1G wireless solution allows stable communication in commercial and industrial settings

Technical Specifications

Model	HMS-1600-4T-NA		HMS-1800-4T-NA		HMS-2000-4T-NA	
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)						
Peak output power (VA)	1600		1800		2000	
Maximum continuous output power (VA)	1440		1660		1918	
Maximum continuous output current (A)	6	6.92	6.92	7.98	7.99	9.22
Nominal output voltage/range (V) ¹	240/211–264	208/183–228	240/211–264	208/183–228	240/211–264	208/183–228
Nominal frequency/range (Hz) ¹	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	3	3	3	3	2
Efficiency						
CEC peak efficiency	96.70%		96.50%		96.50%	
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 × 40.6					
Weight (kg)	5.56					
Enclosure rating	Outdoor-IP67 (NEMA6)					
Cooling	Natural convection-No fans					
Features						
Communication	Sub-1G					
Type of isolation	Galvanically Isolated HF Transformer					
Monitoring	Hoymiles S-Miles Cloud ³					
Compliance	UL 1741, IEEE 1547, UL 1741 SB, CSA C22.2 No. 107.1-16 FCC 15B, FCC 15C					
PV Rapid Shutdown	Conforms with NEC-2017 and NEC-2020 Article 690.12 and CEC-2021 Sec 64-218 Rapid Shutdown of PV Systems.					

*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