



Microinverter Datasheet

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 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 SA, CA Rule21, 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-1800-4T-NA		HMS-2000-4T-NA	
Input Data(DC)				
Commonly used module power (W)	360 to 560+		400 to 625+	
Maximum input voltage (V)	65		65	
MPPT voltage range (V)	16–60		16–60	
Start-up voltage (V)	22		22	
Maximum input current (A)	4 × 13.3		4 × 14	
Output Data(AC)				
Peak output power (VA)	1800		2000	
Maximum continuous output power (VA)	1660		1918	
Maximum continuous output current (A)	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
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	3	3	3	2
Efficiency				
CEC peak efficiency	96.5%		96.5%	
Nominal MPPT efficiency	99.8%		99.8%	
Night power consumption (mW)	< 50		< 50	
Mechanical Data				
Ambient temperature range (°C)	-40 to +65		-40 to +65	
Dimensions (W × H × D mm)	331 × 218 × 34.6		331 × 218 × 34.6	
Weight (kg)	4.7		4.7	
Enclosure rating	Outdoor-NEMA6		Outdoor-NEMA6	
Cooling	Natural convection (no fans)		Natural convection (no fans)	
Features				
Communication	Sub-1G		Sub-1G	
Type of isolation	Galvanically Isolated HF Transformer		Galvanically Isolated HF Transformer	
Monitoring	S-Miles Cloud ³		S-Miles Cloud ³	
Compliance	UL 1741, IEEE 1547, UL 1741 SA, CA Rule21, CSA C22.2 No. 107.1-16 FCC 15B, FCC 15C		UL 1741, IEEE 1547, UL 1741 SA, CA Rule21, 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.		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