



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 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

- | | |
|---|---|
| <p>01 High-powered microinverter for 4-in-1 series with superior performance</p> | <p>04 Independent MPPT and monitoring ensure greater energy harvest and easier maintenance</p> |
| <p>02 Safer for rooftop solar stations with PV rapid shutdown compliance</p> | <p>05 4-in-1 design enables most cost-effective solar solution</p> |
| <p>03 With Reactive Power Control, compliant with UL 1741, IEEE 1547, UL 1741 SB, etc.</p> | <p>06 Sub-1G wireless solution allows stable communication in commercial and industrial settings</p> |

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 × 12.5		4 × 13.3		4 × 14	
Maximum input short circuit current (A)			4 × 20			
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 × 36.6			
Weight (kg)			4.7			
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