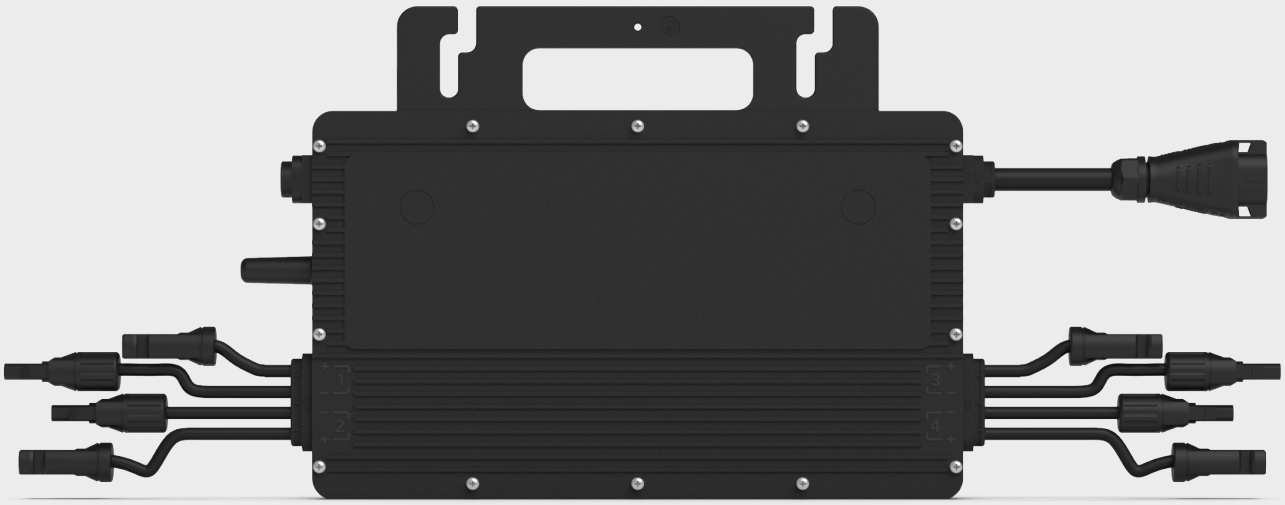


Microinverter Datasheet

HMS-1600D-4T
HMS-1800D-4T
HMS-2000D-4T

Description

Hoymiles 4-in-1 microinverter HMS-2000D-4T features 4 input channels, significantly lowering installation costs.

All of these models listed are connected to an intelligent monitoring system to track individual modules' performance over time and offer superior energy production.

The new Sub-1G wireless solution enables more stable communication under various environmental conditions.

Features

01 High-powered microinverter with output power up to 2000 VA

02 99.8% MPPT efficiency and module-level monitoring ensure greater energy harvest and easier maintenance

03 Comply with UL 1741, IEC/EN 62109-1/-2, IEC/EN 61000-3-2/-3, ect.

04 4-in-1 design maximizes efficiency and reduces costs

05 Sub-1G wireless solution allows stable communication in commercial and industrial settings

06 IP67 protection degree, adapt to outdoor use

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Technical Specifications

Model	HMS-1600D-4T			HMS-1800D-4T			HMS-2000D-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	2								
Number of inputs per MPPT	2								
Output Data (AC)									
Rated output power (VA)	1600			1800			2000		
Rated output current (A)	7.27	6.96	6.67	8.18	7.83	7.50	9.09	8.70	8.33
Nominal output voltage/range (V)*	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)*	50/45–55 or 60/55–65								
Adjustable power factor (@nominal power)	> 0.99 default 0.8 leading ... 0.8 lagging								
Total harmonic distortion (@nominal power)	< 3%								
Maximum units per 10 AWG branch**	4	4	4	3	4	4	3	3	3
Efficiency									
CEC peak efficiency	96.70%			96.50%			96.50%		
Nominal MPPT efficiency	99.80%								
Night power consumption (mW)	< 50								
Mechanical Data									
Ambient temperature range (℃)	-40 to +65								
Dimensions (W × H × D [mm])	310 × 185 × 40.6								
Weight (kg)	4.5								
Enclosure rating	Outdoor-IP67								
Cooling	Natural convection-No fans								
Features									
Communication	Sub-1G								
Type of isolation	Galvanically Isolated HF Transformer								
Monitoring	S-Miles Cloud (Hoymiles Monitoring Platform)								
Compliance	UL 1741, IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4, IEC/EN 61000-3-2/-3, IEC 62920								

* : Nominal voltage/frequency range can vary depending on local requirements.
**: Refer to local requirements for exact number of microinverters per AC output line.

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