



# Microinverter Datasheet

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

## Description

The HMS-2000-4T-NA series microinverters are designed for high-powered solar panels and are among the top-performing 4-in-1 microinverters available.

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, 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

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|---|---|
| <p><b>01</b> High-powered microinverter for 4-in-1 series with superior performance</p>           | <p><b>04</b> Independent MPPT and monitoring ensure greater energy harvest and easier maintenance</p>       |
| <p><b>02</b> Safer for rooftop solar stations with PV rapid shutdown compliance</p>               | <p><b>05</b> The 4-in-1 design offers a more cost-effective solar solution</p>                              |
| <p><b>03</b> With Reactive Power Control, compliant with UL 1741, IEEE 1547, UL 1741 SB, etc.</p> | <p><b>06</b> 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	
<b>Input Data(DC)</b>						
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			
<b>Output Data(AC)</b>						
Peak output power (VA)	1600		1800		2000	
Maximum continuous output power (VA)	1440		1660		1918	
Maximum continuous output current (A)	6.00	6.92	6.92	7.98	7.99	9.22
Nominal output voltage/range (V)*	240/211-264	208/183-228	240/211-264	208/183-228	240/211-264	208/183-228
Nominal frequency/range (Hz)*			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	3	3	3	3	2
<b>Efficiency</b>						
CEC peak efficiency	96.70%		96.50%		96.50%	
Nominal MPPT efficiency			99.80%			
Night power consumption (mW)			< 50			
<b>Mechanical Data</b>						
Ambient temperature range (°F)			-40 to +149 (-40 to +65°C)			
Dimensions (W × H × D [inch])			13.03 × 8.58 × 1.60 (331 × 218 × 40.6 mm)			
Weight (lbs)			12.26 (5.56 kg)			
Enclosure rating			Outdoor-NEMA 6 (IP67)			
Cooling			Natural convection-No fans			
<b>Features</b>						
Communication			Sub-1G			
Type of isolation			Galvanically Isolated HF Transformer			
Monitoring			S-Miles Cloud (Hoymiles Monitoring Platform)			
Compliance			UL 1741, IEEE 1547, UL 1741 SB, CA Rule 21 (240 Vac)** , CSA C22.2 No. 107.1-16, FCC 15B, FCC 15C			
PV Rapid Shutdown			Conforms with NEC-2017, NEC-2020 Article 690.12, and CEC-2021 Sec 64-218 Rapid Shutdown of PV Systems			

\* : Nominal voltage/frequency range can vary depending on local requirements.

\*\* : Refer to local requirements for the exact number of microinverters per branch.

\*\*\*: The HMS-2000-4T-NA microinverter complies with both CA Rule 21 (240 Vac) and CA Rule 21 (208 Vac).