



# Microinverter Datasheet

- HMS-700-2T-NA**
- HMS-800-2T-NA**
- HMS-900-2T-NA**
- HMS-1000-2T-NA**

## Description

Hoymiles new microinverter HMS-1000 series are suitable for high-powered solar panels, which rank among the highest for 2-in-1 microinverters.

Each microinverter can connect up to 2 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 2-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** 2-in-1 design enables faster installation
- 06** Sub-1G wireless solution allows stable communication in commercial and industrial settings

## Technical Specifications

Model	HMS-700-2T-NA		HMS-800-2T-NA		HMS-900-2T-NA		HMS-1000-2T-NA	
<b>Input Data(DC)</b>								
Commonly used module power (W)	280 to 470+		320 to 540+		360 to 600+		400 to 670+	
Maximum input voltage (V)	60		65		65		65	
MPPT voltage range (V)	16–60							
Start-up voltage (V)	20		25		25		25	
Maximum input current (A)	2 × 13		2 × 14		2 × 15		2 × 16	
Maximum input short circuit current (A)	2 × 16		2 × 20		2 × 20		2 × 20	
Number of MPPTs	2							
Number of Inputs per MPPT	1							
<b>Output Data(AC)</b>								
Peak output power (VA)	700		800		900		1000	
Maximum continuous output power (VA)	638		720		820		958	
Maximum continuous output current (A)	2.66	3.07	3	3.46	3.42	3.94	3.99	4.61
Nominal output voltage/range (V) <sup>1</sup>	240/211–264	208/183–228	240/211–264	208/183–228	240/211–264	208/183–228	240/211–264	208/183–228
Nominal frequency/range (Hz) <sup>1</sup>	60/55–65							
Power factor (adjustable)	> 0.99 default 0.8 leading ... 0.8 lagging							
Total harmonic distortion	< 3%							
Maximum units per 10AWG branch <sup>2</sup>	9	7	8	6	7	6	6	5
Maximum units per 12AWG branch <sup>2</sup>	6	5	5	4	4	4	4	3
<b>Efficiency</b>								
CEC peak efficiency	96.70%				96.50%			
Nominal MPPT efficiency	99.8%							
Night power consumption (mW)	< 50							
<b>Mechanical Data</b>								
Ambient temperature range (°C)	-40 to +65							
Dimensions (W × H × D mm)	261 × 180 × 31							
Weight (kg)	3.1							
Enclosure rating	Outdoor-IP67 (NEMA6)							
Cooling	Natural convection-No fans							
<b>Features</b>								
Communication	Sub-1G							
Type of isolation	Galvanically Isolated HF Transformer							
Monitoring	Hoymiles S-Miles Cloud <sup>3</sup>							
Compliance	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.							

\*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