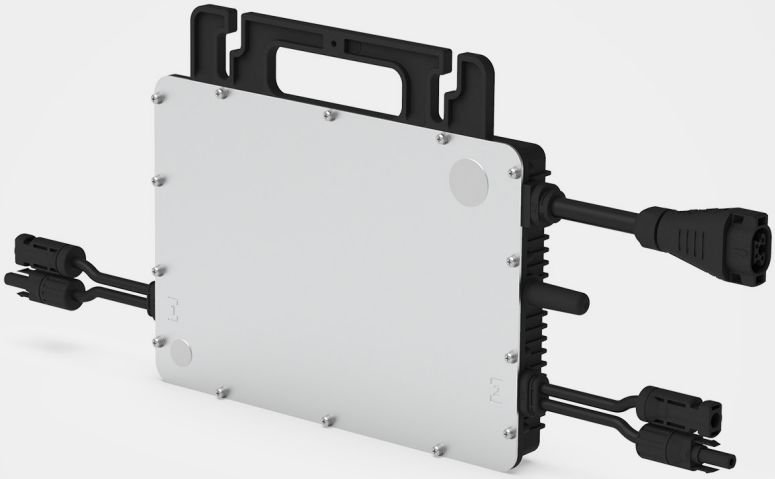

Microinverter Datasheet

HMS-800-2T-NA
HMS-900-2T-NA
HMS-700-2T-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, 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 SB, 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

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Technical Specifications

Model	HMS-700-2T-NA		HMS-800-2T-NA		HMS-900-2T-NA		HMS-1000-2T-NA	
Input Data (DC)								
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)	22							
Maximum input current (A)	2 × 13		2 × 14		2 × 15		2 × 16	
Maximum input short circuit current (A)	2 × 20		2 × 25		2 × 25		2 × 25	
Number of MPPTs	2							
Number of inputs per MPPT	1							
Output Data (AC)								
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	3.00	3.46	3.42	3.94	3.99	4.61
Nominal output voltage/range (V)*	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)*	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**	9	7	8	6	7	6	6	5
Maximum units per 12 AWG branch**	6	5	5	4	4	4	4	3
Efficiency								
CEC peak efficiency	96.70%		96.70%		96.50%		96.50%	
Nominal MPPT efficiency	99.80%							
Night power consumption (mW)	< 50							
Mechanical Data								
Ambient temperature range (°F)	-40 to +149 (-40°C to +65°C)							
Dimensions (W × H × D [inches])	10.28 × 7.09 × 1.38 (261 × 180 × 35.1 mm)							
Weight (lbs)	7.06 (3.2 kg)							
Enclosure rating	NEMA 6 (Outdoor-IP67)							
Cooling	Natural convection-No fans							
Features								
Communication	Sub-1G							
Type of isolation	Galvanically Isolated HF Transformer							
Monitoring	Hoymiles 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 and 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 exact number of microinverters per branch.
***: The HMS-1000-2T-NA microinverter complies with both CA Rule 21 (240 Vac) and CA Rule 21 (208 Vac).

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