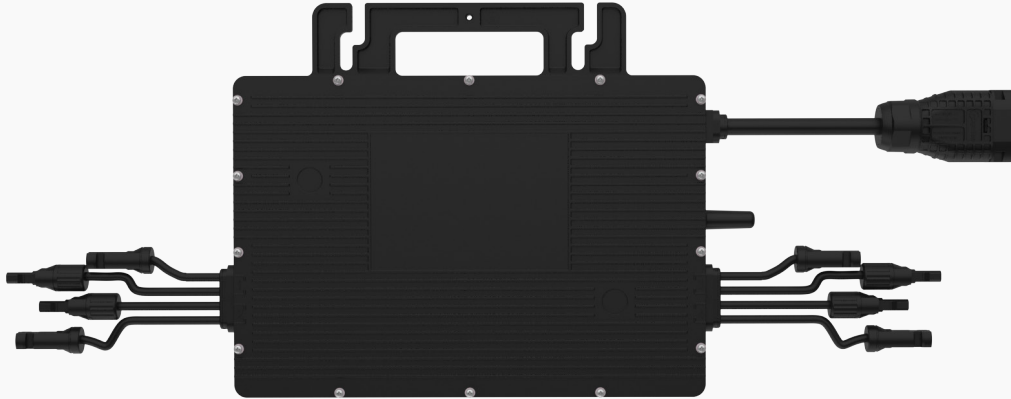




Microinverter Datasheet

HMT-1600-4T-208
HMT-1800-4T-208
HMT-2000-4T-208

Description

Hoymiles new generation microinverter HMT-2000-4T-208 series is designed to accommodate the high-powered PV modules, with maximum output power up to 2000 VA and maximum DC input current up to 16 A.

The innovative 4-input design enables faster installation and lower cost, and makes the HMT-2000-4T-208 series a very cost-effective choices.

The new Sub-1G wireless solution enables more stable communication with Hoymiles gateway DTU. Smart platform S-Miles Cloud makes it possible to module-level monitoring and remote O&M.

Features

01 Three-phase output, more suitable for commercial and industrial applications

02 With output power up to 2000 VA, compatible with 182 mm/210 mm PV module

03 Designed for Latin American grids with a delta connection

04 4-in-1 design enables faster installation and comes with a lower cost

05 Safer for rooftop solar stations with rapid shutdown compliance and isolated transformer

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

Technical Specifications

Model	HMT-1600-4T-208		HMT-1800-4T-208		HMT-2000-4T-208					
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							
Minimum/Maximum start-up voltage (V)			22/60							
Peak power MPPT voltage range	31-48		32-48		33-48					
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)										
Grid type	127/220, 120/208, 3Φ/PE/N (Neutral optional)									
Maximum continuous output power (VA)	1600		1800		2000					
Maximum continuous output current (A)	4.21	4.44	4.73	5.00	5.26	5.56				
Nominal output voltage (V)	220	208	220	208	220	208				
Nominal output voltage range (V) ¹	180-270									
Nominal frequency/range (Hz) ¹	60/55-65									
Power factor (adjustable)	>0.99 default 0.85 leading ... 0.85 lagging									
Total harmonic distortion	< 3%									
Maximum units per 10 AWG branch ²	7	6	6	6	5	5				
Maximum units per 12 AWG branch ²	4	4	4	4	3	3				
Efficiency										
Peak efficiency	96.50%									
Nominal MPPT efficiency	99.80%									
Night power consumption (mW)	< 50									
Mechanical Data										
Ambient temperature range (°F)	-40°F to 149°F (-40 to +65°C)									
Storage temperature range (°F)	-40°F to 185°F (-40 to +85°C)									
Dimensions (W × H × D [inch])	12.83 × 8.74 × 1.6 (326 × 222 × 40.6 mm)									
Weight (lbs)	12.79 (5.8 kg)									
Enclosure rating	Outdoor-IP67									
Cooling	Natural convection – No fans									
Features										
Communication	Sub-1G									
Topology	Galvanically Isolated HF Transformer									
Monitoring	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