Microinverter Datasheet

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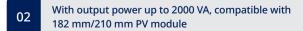**HMT-1800-4T-208-NA**
HMT-2000-4T-208-NA

Description

Hoymiles new generation microinverter HMT-2000-4T-208-NA 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-NA 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 North American grids with a three-phase Delta network

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

	HMT-1600-4T-208-NA	HMT-1800-4T-208-NA	HMT-2000-4T-208-NA
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	
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		120/208, 3Φ/PE/N(Neutral optional)	
Peak output power (VA)	1600	1800	2000
Maximum continuous output power (VA)	1440	1728	1918
Maximum continuous output current (A)	4	4.8	5.33
Nominal output voltage (V)		208	
Nominal output voltage range (V)[1]		183-228	
Nominal frequency/range (Hz)[1]		60/55-65	
Power factor (adjustable)		>0.99 default 0.8 leading ... 0.8 lagging	
Total harmonic distortion		< 3%	
Maximum units per 10 AWG branch[2]	6	5	4
Maximum units per 12 AWG branch[2]	4	3	3
Efficiency			
CEC 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℃)	
Storage temperature range (°F)		-40°F to 185°F (-40 to +85℃)	
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