



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 | 04 | 4-in-1 design enables faster installation and comes with a lower cost |
| 02 | With output power up to 2000 VA, compatible with 182 mm/210 mm PV module | 05 | Safer for rooftop solar stations with rapid shutdown compliance and isolated transformer |
| 03 | Designed for North American grids with a three-phase Delta network | 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 0.85 leading ... 0.85 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° to 149° (-40 to +65°C) | | |
| Storage temperature range (°F) | -40° to 185° (-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