



Microinverter Datasheet

HMS-2250DW-4T

Description

The HMS-2250DW-4T microinverter is optimized for high-powered PV modules. It delivers up to 2250 VA of output power and supports a maximum DC input current of 18 A.

This model is designed to be cost-effective. Each microinverter connects to four PV modules, allowing you to build a larger system with fewer devices. With a built-in Wi-Fi module, there's no need to buy a DTU.

Setting it up is easy too. With the Flex-S3 cable system, all installation is just plug and play.

Features

01

Safe and Reliable

- Complies with rapid shutdown regulations
- Integrated AFCI function to prevent arc faults
- Built-in isolated transformer for enhanced safety

02

High Power

- Maximum continuous output power: 2250 VA
- Supports PV input current up to 18 A, offering better compatibility with 182 mm/210 mm PV modules

03

Easy Setup

- Plug-and-play installation with the Flex-S3 cable system, simplifying wiring and reducing installation time
- Modular design suits various installation configurations

04

Cost-Saving

- Built-in Wi-Fi for direct monitoring—no extra DTU required
- Each microinverter connects to four PV modules, reducing the number of devices you need

Technical Specifications

| Model | HMS-2250DW-4T | | | |
|--|--|-------------|-------------|-------------|
| Input Data (DC) | | | | |
| Commonly used module power (W) | 450 to 750+ | | | |
| Maximum input voltage (V) | 65 | | | |
| MPPT voltage range (V) | 16 to 60 | | | |
| Minimum/Maximum start-up voltage (V) | 22/60 | | | |
| Maximum input current (A) | 4 × 18 | | | |
| Maximum input short-circuit current (A) | 4 × 25 | | | |
| Number of MPPTs | 2 | | | |
| Number of inputs per MPPT | 2 | | | |
| Output Data (AC) | | | | |
| Maximum continuous output power (VA) | 2250 | | | |
| Maximum continuous output current (A) | 10.82 | 10.23 | 9.78 | 9.38 |
| Nominal output voltage/range (V)* | 208/180-275 | 220/180-275 | 230/180-275 | 240/180-275 |
| Nominal frequency (Hz)* | 50/60 | | | |
| Nominal range (Hz)* | 45-55 / 55-65 | | | |
| Adjustable power factor (@ nominal power) | > 0.99 default 0.8 leading ... 0.8 lagging | | | |
| Total harmonic distortion (@ nominal power) | < 3% | | | |
| Efficiency | | | | |
| CEC Peak efficiency | 96.50% | | | |
| Nominal MPPT efficiency | 99.80% | | | |
| Night power consumption (mW) | < 50 | | | |
| Mechanical Data | | | | |
| Ambient temperature range (°C) | -40 to +65 (-40 °F to 149 °F) | | | |
| Storage temperature range (°C) | -40 to +85 (-40 °F to 185 °F) | | | |
| Dimensions (W × H × D [mm]) | 386 × 192 × 45.6 (15.20" × 7.56" × 1.80") | | | |
| Weight (kg) | 6 (13.23 lb) | | | |
| Enclosure rating | Outdoor-IP67 (NEMA 6) | | | |
| Cooling | Natural convection-No fans | | | |
| Features | | | | |
| Communication | Wi-Fi | | | |
| Type of isolation | Galvanically Isolated HF Transformer | | | |
| Monitoring | S-Miles Cloud (Hoymiles Monitoring Platform) | | | |
| Compliance | IEC / EN 62109-1/-2, IEC / EN 61000-6-1/-2/-3/-4, IEC / EN 61000-3-2/-3, IEC / EN 62920, EN 300 328 V2.2.2, Anatel, PORTARIA INMETRO Nº 140, DE 21 DE MARÇO DE 2022, IEC 63027 | | | |
| *: Nominal voltage/frequency range can vary depending on local requirements. | | | | |