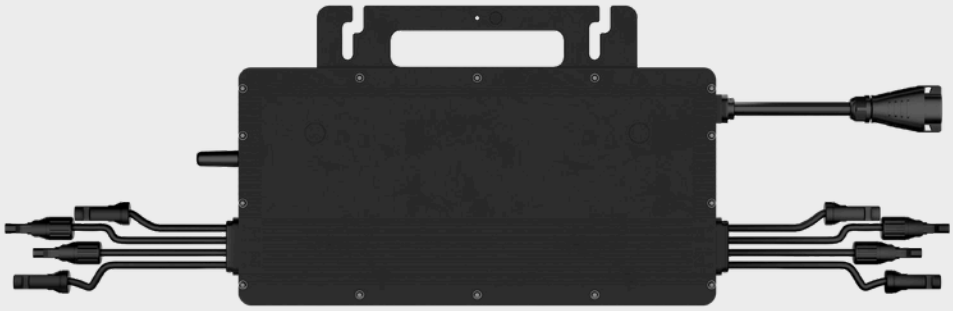

Microinver ter Datasheet

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*

hoymiles.com
sales@hoymiles.com

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/range (Hz)*	50/45–55			
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.