



Microinverter Datasheet

HM-1200NT
HM-1500NT

Description

Hoymiles 4-in-1 microinverter is one of the most cost-effective module-level solar solutions, as it can support up to 4 panels at once and maximize the PV production of your installation. With a maximum DC voltage of 60 volts, Hoymiles microinverter is a PV Rapid Shutdown Equipment and conforms with NEC-2017 and NEC-2020 Article 690.12 and CEC-2021 Sec 64-218.

Both models listed are equipped with reactive power control and can meet the requirements of IEEE 1547, UL 1741 and CA Rule21.

Features

01

Easy installation, just plug and play

02

With Reactive Power Control, compliant with CA Rule 21

03

Compliant with U.S. NEC-2017&NEC-2020 690.12 rapid shutdown

04

External antenna for stronger communication with DTU

05

High reliability: NEMA 6 (IP67) enclosure, 6000 V surge protection

Technical Specifications

Model	HM-1200NT		HM-1500NT	
Input Data (DC)				
Commonly used module power (W)	240 to 405+		300 to 505+	
Maximum input voltage (V)			60	
MPPT voltage range (V)			16-60	
Start-up voltage (V)			22	
Maximum input current (A)	4 × 11.5		4 × 11.5	
Maximum input short circuit current (A)			4 × 15	
Number of MPPTs			2	
Number of inputs per MPPT			2	
Output Data (AC)				
Peak output power (VA)	1200	1200	1500	1500
Maximum continuous output power (VA)	1200	1200	1438	1438
Maximum continuous output current (A)	5.00	5.77	5.99	6.91
Nominal output voltage/range (V) ¹	240/211-264	208/183-228	240/211-264	208/183-228
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	4	4	4	3
Efficiency				
CEC peak efficiency	96.7%			
CEC weighted efficiency	96.5%			
Nominal MPPT efficiency	99.8%			
Nighttime power consumption (mW)	<50			
Mechanical Data				
Ambient temperature range (°C)	-40 to +65			
Dimensions (W × H × D [mm])	280 × 176 × 33			
Weight (kg)	3.35			
Enclosure rating	Outdoor-NEMA 6 (IP67)			
Cooling	Natural convection – No fans			
Features				
Communication	2.4 GHz Proprietary RF (Nordic)			
Type of isolation	Galvanically Isolated HF Transformer			
Monitoring	S-Miles Cloud ³			
Warranty	Up to 25 years			
Compliance	UL 1741, IEEE 1547, UL 1741 SB, UL 1741 SA (240 Vac), CA Rule 21 (240 Vac) ⁴ , CSA C22.2 No. 107.1-16, FCC Part 15B, FCC Part 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

*4 The HM-1500NT microinverter complies with both CA Rule 21 (240 Vac) and CA Rule 21 (208 Vac).