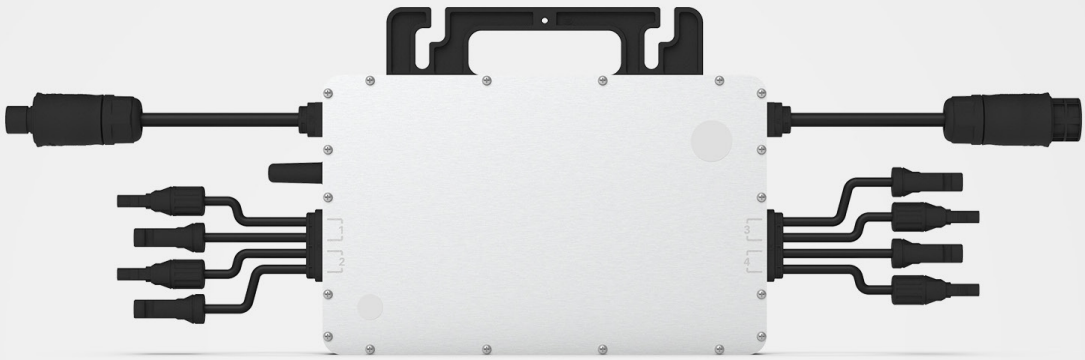

Microinverter Datasheet

HM-1200N
HM-1500N

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 the maximum DC voltage of 60 V, 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.
All of the three models listed are equipped with reactive power control and are compliant with 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

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Technical Specifications

Model	HM-1200N		HM-1500N	
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	
Output Data (AC)				
Peak output power (VA)	1260	1200	1500	1350
Maximum continuous output power (VA)	1200	1109	1438	1246
Maximum continuous output current (A)	5	5.33	5.99	5.99
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 branch[2]	3	3	2	2
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)	3.75			
Enclosure rating	Outdoor-NEMA 6 (IP67)			
Cooling	Natural convection – No fans			
Features				
Communication	2.4GHz Proprietary RF (Nordic)			
Monitoring	S-Miles Cloud[3]			
Warranty	Up to 25 years			
Compliance	UL 1741, IEEE 1547, UL 1741 SA (240 Vac), CA Rule 21 (240 Vac), 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.