



# 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

# Technical Specifications

Model	HM-1200N		HM-1500N	
<b>Input Data (DC)</b>				
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	
<b>Output Data (AC)</b>				
Peak output power (VA)	1260	1200	1500	1500
Maximum continuous output power (VA)	1200	1109	1438	1438
Maximum continuous output current (A)	5	5.33	5.99	6.91
Nominal output voltage/range (V) <sup>1</sup>	240/211-264	208/183-228	240/211-264	208/183-228
Nominal frequency/range (Hz) <sup>1</sup>	60/55-65			
Power factor (adjustable)	>0.99 default 0.8 leading ... 0.8 lagging			
Total harmonic distortion	<3%			
Maximum units per 12 AWG branch <sup>2</sup>	3	3	2	2
<b>Efficiency</b>				
CEC peak efficiency	96.7%			
CEC weighted efficiency	96.5%			
Nominal MPPT efficiency	99.8%			
Nighttime power consumption (mW)	<50			
<b>Mechanical Data</b>				
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			
<b>Features</b>				
Communication	2.4GHz Proprietary RF (Nordic)			
Monitoring	S-Miles Cloud <sup>3</sup>			
Warranty	Up to 25 years			
Compliance	UL 1741, IEEE 1547, UL 1741 SA (240 Vac), UL 1741 SB, CA Rule 21 (240 Vac) <sup>4</sup> , 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-1500N microinverter complies with both CA Rule 21 (240 Vac) and CA Rule 21 (208 Vac).