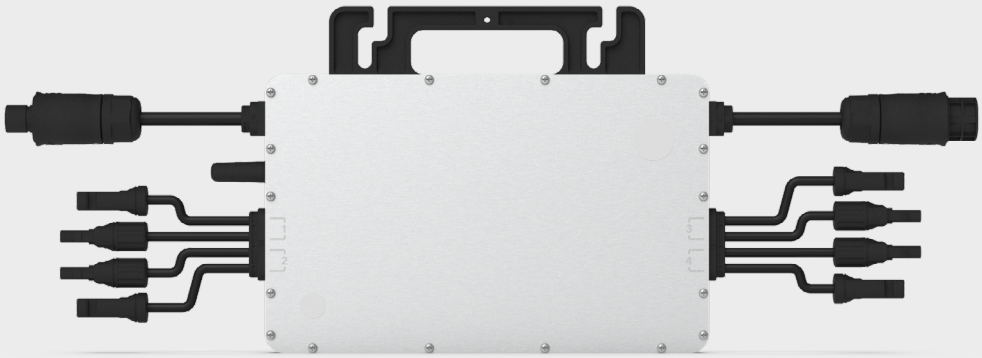

Microinverter Datasheet

HM-1200
HM-1500

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.

Both models listed are equipped with reactive power control and can meet the requirements of EN 50549-1:2019, VDE-AR-N 4105:2018, UL 1741, etc. They're also designed with external antenna for stronger communication with Hoymiles gateway DTU.

Features

01 Easy installation, just plug and play

02 With Reactive Power Control, compliant with VDE-AR-N 4105: 2018 & EN 50549-1: 2019

03 External antenna for stronger communication with DTU

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

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Technical Specifications

Model	HM-1200	HM-1500
Input Data (DC)		
Commonly used module power (W)	240–405+	300–505+
Peak power MPPT voltage range (V)	29–48	36–48
Start-up voltage (V)	22	
Operating voltage range (V)	16–60	
Maximum input voltage (V)	60	
Maximum input current (A)	4 × 11.5	4 × 11.5
Output Data (AC)		
Rated output power (VA)	1200	1500
Rated output current (A)	5.45/5.22/5	6.82/6.52/6.25
Nominal output voltage (V)	220/230/240	
Nominal output voltage range (V)[1]	180–275	
Nominal frequency/range (Hz)[1]	50/45–55 or 60/55–65	
Power factor (adjustable)	> 0.99 default 0.8 leading...0.8 lagging	
Total harmonic distortion	< 3%	
Maximum units per branch[2]	4/4/4	3/3/3
Efficiency		
CEC peak efficiency	96.70%	
CEC weighted efficiency	96.50%	
Nominal MPPT efficiency	99.80%	
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	
Monitoring	S-Miles Cloud[3]	
Compliance	EN 50549-1: 2019, VDE-AR-N 4105: 2018, UL 1741, ABNT NBR 16150, IEC/EN 62109-1/-2,IEC/EN 61000-6-1/-2/-3/-4, IEC/EN 61000-3-2/-3	

*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.

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