



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

## Technical Specifications

Model	HM-1200	HM-1500
<b>Input Data (DC)</b>		
Commonly used module power (W)	240-405+	300-505+
Maximum input voltage (V)	60	
MPPT voltage range (V)	16-60	
Start-up voltage (V)	22	
Maximum input current (A)	4 × 11.5	
Maximum input short circuit current (A)	4 × 15	
<b>Output Data (AC)</b>		
Rated output power (VA)	1200	1500
Rated output current (A)	5.22	6.52
Nominal output voltage (V)	230/180-275	
Nominal output voltage range (V) <sup>1</sup>	180-275	
Nominal frequency/range (Hz) <sup>1</sup>	50/45-55	
Power factor (adjustable)	> 0.99 default 0.8 leading...0.8 lagging	
Total harmonic distortion	< 3%	
Maximum units per branch <sup>2</sup>	4	3
<b>Efficiency</b>		
CEC peak efficiency	96.70%	
CEC weighted efficiency	96.50%	
Nominal MPPT efficiency	99.80%	
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 IP67 (NEMA 6)	
Cooling	Natural convection (no fans)	
<b>Features</b>		
Communication	2.4GHz Proprietary RF	
Type of isolation	Galvanically Isolated HF Transformer	
Monitoring	S-Miles Cloud <sup>3</sup>	
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.