



## 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 & EN5 0549-1: 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 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		
<b>Output Data (AC)</b>						
Rated output power (VA)	1200			1500		
Rated output current (A)	5.45	5.22	5	6.82	6.52	6.25
Nominal output voltage/range (V) <sup>1</sup>	220/180-275	230/180-275	240/180-275	220/180-275	230/180-275	240/180-275
Nominal frequency/range (Hz) <sup>1</sup>	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 10AWG branch <sup>2</sup>	5	6	6	4	4	5
<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)	3.35					
Enclosure rating	Outdoor-IP67 (NEMA 6)					
Cooling	Natural convection – No fans					
<b>Features</b>						
Communication	2.4GHz Proprietary RF					
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.