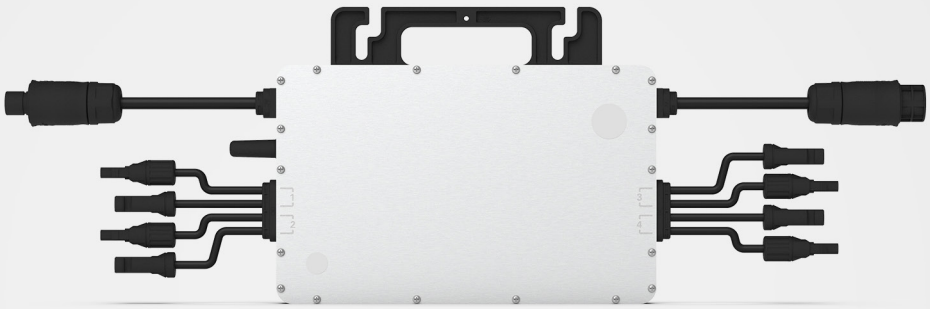

Microinverter Datasheet

HM-1200
HM-1200P
HM-1500

Description

Designed for more demanding environments, our 4-in-1 microinverters support up to 4 PV modules and maximize power generation - the best cost-effective solution you can get.

All of these three models are equipped with reactive power control and can meet the requirements of AS/NZS 4777.2:2020. They're also designed with the external antenna for stronger communication with Hoymiles gateway DTU.

Features

01 Easy installation, just plug and play

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

03 Grid protection relay integrated

04 Compliant with the US NEC2017/ NEC2020 rapid shutdown

05 CEC listed

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Technical Specifications

Model	HM-1200		HM-1200P		HM-1500	
Input Data (DC)						
Commonly used module power (W)	240 to 405+		250 to 420+		280 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		4 × 11.5	
Maximum input short circuit current (A)	4 × 15					
Number of MPPTs	2					
Number of inputs per MPPT	2					
Output Data (AC)						
Rated output power(VA)	1200		1250		1500	
Rated output current(A)	5.22	5.00	5.43	5.21	6.5	6.25
Nominal output voltage/range(V)1	230/180-275	240/180-275	230/180-275	240/180-275	230/180-275	240/180-275
Nominal frequency/range(Hz)1	50/45-55					
Power factor (adjustable)	> 0.99 default 0.8 leading ... 0.8 lagging					
Total harmonic distortion	< 3%					
Maximum units per branch[2]	3	4	3	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 (℃)	-40 to +65					
Dimensions (W × H × D mm)	280 × 176 × 33					
Weight (kg)	3.8					
Enclosure rating	Outdoor-IP67 (NEMA 6)					
Cooling	Natural convection – No fans					
Features						
Topology	High-Frequency Isolated Transformers					
Communication	2.4GHz Proprietary RF (Nordic)					
Monitoring	S-Miles Cloud3					
Warranty	12 years standard, 25 years optional					
Compliance	AS/NZS 4777.2:2020, 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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