



Microinverter Datasheet

HM-300
HM-350
HM-400

Description

Hoymiles 1-in-1 microinverter is one of the most flexible solar solutions, which can be connected to one PV module and used in various settings.

All of these three models are equipped with reactive power control and can meet the requirements of AS/NZS 4777.2:2015. They're also designed with 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 US. NEC2017/NEC2020 rapid shutdown
- 05 CEC listed

Technical Specifications

Model	HM-300		HM-350		HM-400	
Input Data (DC)						
Commonly used module power (W)	240 to 405+		280 to 470+		320 to 540+	
Maximum input voltage (V)	60					
MPPT voltage range (V)	16-60					
Start-up voltage (V)	22					
Maximum input current (A)	11.5		11.5		12.5	
Output Data (AC)						
Rated output power (VA)	300		350		400	
Rated output current (A)	1.3	1.25	1.52	1.46	1.74	1.67
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	15	16	13	13	11	11
Efficiency						
CEC peak efficiency	96.7%					
CEC weighted efficiency	96.5%					
Nominal MPPT efficiency	99.8%					
Nighttime power consumption (mW)	<50					
Mechanical Data						
Ambient temperature range (°C)	-40 to +65					
Dimensions (W × H × D mm)	182 × 164 × 29.5					
Weight (kg)	1.98					
Enclosure rating	Outdoor-IP67 (NEMA 6)					
Cooling	Natural convection – No fans					
Features						
Communication	2.4GHz Proprietary RF (Nordic)					
Monitoring	S-Miles Cloud ³					
Warranty	12 years standard, 25 years optional					
Compliance	AS/NZS 4777.2:2015 ⁴ , 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

*4 Updating to AS/NZS 4777.2:2020