



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 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-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)	1.36	1.3	1.25	1.59	1.52	1.46	1.82	1.74	1.67
Nominal output voltage/range (V) ¹	220/180-275	230/180-275	240/180-275	220/180-275	230/180-275	240/180-275	220/180-275	230/180-275	240/180-275
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 10AWG branch ²	23	24	25	20	21	21	17	18	19
Maximum units per 12AWG branch ²	14	15	16	12	13	13	10	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								
Compliance	VDE-AR-N 4105: 2018, EN 50549-1: 2019, VFR 2019, 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.