



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

03

External antenna for stronger communication with DTU

02

With Reactive Power Control, compliant with VDE-AR-N 4105: 2018 & EN 50549-1: 2019

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)	240–405+	280–470+	320–540+
Peak power MPPT voltage range (V)	29–48	33–48	34–48
Start-up voltage (V)	22		
Operating voltage range (V)	16–60		
Maximum input voltage (V)	60		
Maximum input current (A)	11.5	11.5	12.5
Maximum input short circuit current (A)	1 × 15		
Number of MPPTs	1		
Number of inputs per MPPT	1		
Output Data (AC)			
Rated output power (VA)	300	350	400
Rated output current (A)	1.36/1.30/1.25	1.59/1.52/1.46	1.82/1.74/1.67
Nominal output voltage (V)	220/230/240		
Nominal output voltage range (V) ¹	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 branch ²	16/16/16	14/14/14	12/12/12
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 (°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	2.4 GHz Proprietary RF (Nordic)		
Monitoring	S-Miles Cloud ³		
Compliance	UL 1741, ABNT NBR 16150, 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.