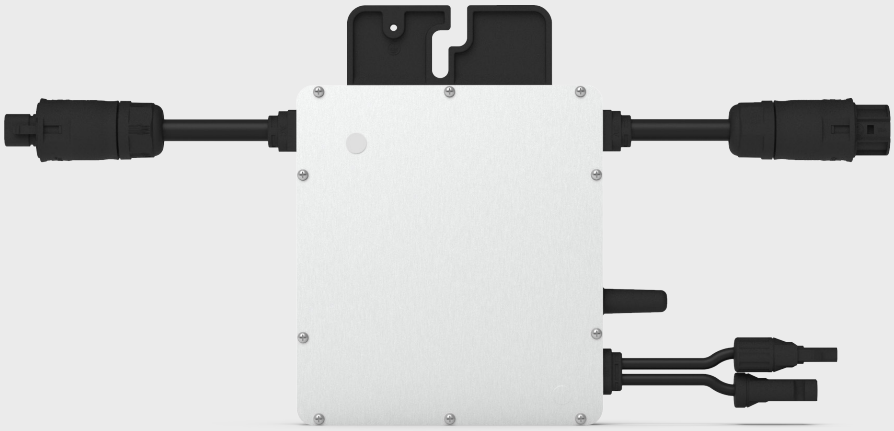

Microinverter Datasheet

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

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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
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)	1.30	1.52	1.74
Nominal output voltage/range (V)[1]		230/180-275	
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]	16	14	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)	
Type of isolation		Galvanically Isolated HF Transformer	
Monitoring		S-Miles Cloud[3]	
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.

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