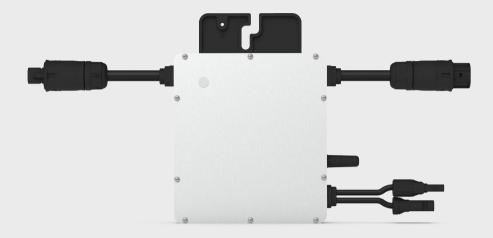
## hoymiles



# Microinverter Datasheet

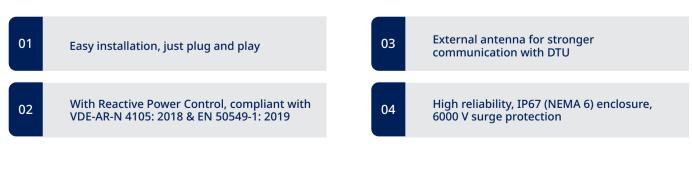
HM-300 HM-350 HM-400

#### 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



### **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) <sup>1</sup>	230/180-275		
Nominal frequency/range (Hz) <sup>1</sup>	50/45-55		
Power factor (adjustable)	> 0.99 default 0.8 leading0.8 lagging		
Total harmonic distortion		< 3%	
Maximum units per branch <sup>2</sup>	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 $\times$ H $\times$ 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 <sup>3</sup>		
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.