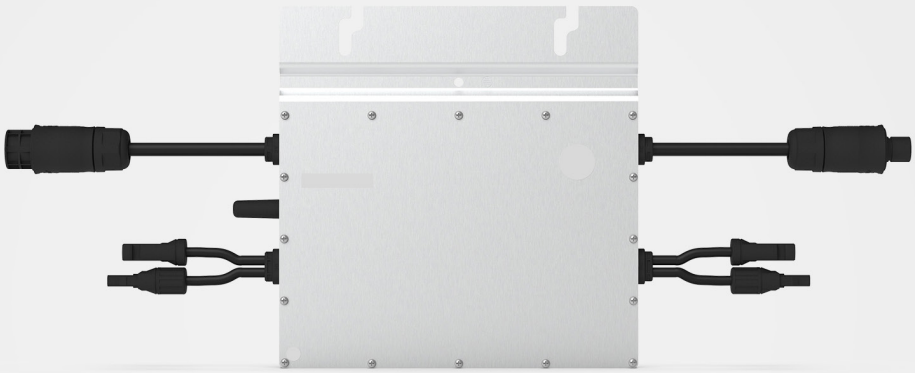

Microinverter Datasheet

HM-1000

Description

Hoymiles HM-1000 microinverter can connect up to 2 PV modules, maximizing the PV production of your installation.

Each microinverter is equipped with reactive power control and meets the requirements of NF EN 50549-1:2019, NF EN 50549-10:2022, etc. It is also designed with an external antenna for stronger communication with Hoymiles gateway DTU.

Features

01 Easy installation with plug and play

02 With Reactive Power Control, compliant with NF EN 50549-1:2019, NF EN 50549-10:2022, etc.

03 External antenna for stronger communication with DTU

04 High reliability: IP67 enclosure, 6000 V surge protection

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Technical Specifications

Model	HM-1000
Input Data (DC)	
Commonly used module power (W)	400 to 670+
Maximum input voltage (V)	60
MPPT voltage range (V)	16 to 60
Start-up voltage (V)	22
Maximum input current (A)	2 × 14
Maximum input short circuit current (A)	2 × 20
Number of MPPTs	2
Number of inputs per MPPT	1
Output Data (AC)	
Rated output power (W)	1000
Rated output current (A)	4.35
Nominal output voltage range (V)*	230/180-275
Nominal frequency/range (Hz)*	50/45–55
Power factor (@nominal power)	>0.99 default 0.8 leading...0.8 lagging
Total harmonic distortion (@nominal power)	<3%
DC/AC ratio	≤1.35
Maximum units per branch**	5
Efficiency	
Peak 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)	250 × 170 × 28
Weight (kg)	3.0
Enclosure rating	Outdoor IP67
Cooling	Natural convection (no fans)
Features	
Communication	2.4 GHz Proprietary RF (2.4 GHz to 2.4835 GHz)
RF output power	<20 dBm
Antenna gain	3.38 dBi
Topology	Galvanically Isolated HF Transformer
Monitoring	S-Miles Cloud (Hoymiles Monitoring Platform)
Compliance	NF EN 50549-1:2019, NF EN 50549-10:2022, IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4, IEC/EN 61000-3-2/-3, IS 16169/IEC 62116, IS 16221 (Part 2)

* Nominal voltage/frequency range can vary depending on local requirements.
** Refer to local requirements for the exact number of microinverters per branch.