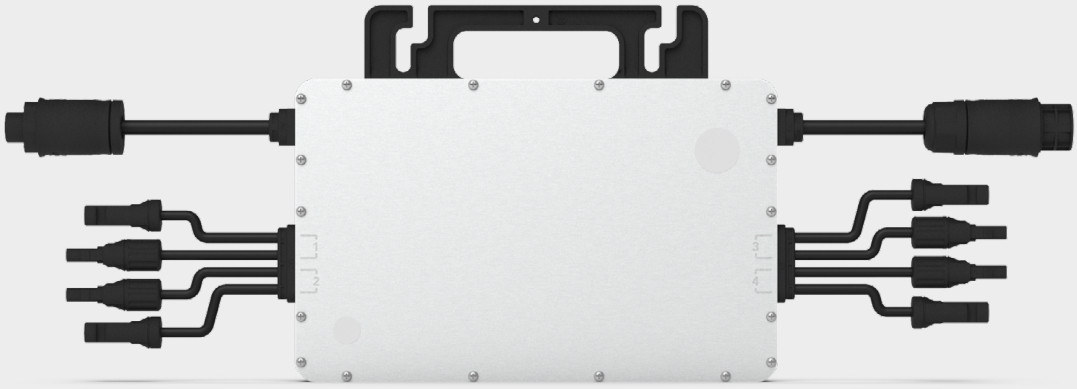

Microinverter Datasheet

MI-1200
MI-1500

Description

Hoymiles MI-1500 series of microinverters support main-stream high-power modules, with the maximum output power of 1500 W. They can connect up to 4 panels at once and enable module-level maintenance and management of the PV station by monitoring power generation of each module.
Module-level data can be uploaded to the monitoring platform S-Miles Cloud via Hoymiles data transfer units through 2.4G wireless communication.

Features

01 Maximum output power up to 1200/1500 W, and adapted to 60-cell & 72-cell PV panels

02 Peak efficiency 96.70% and CEC weighted efficiency 96.50%

03 Static MPPT efficiency 99.80% and dynamic MPPT efficiency 99.76% in overcast weather

04 High reliability: NEMA 6 (IP67) enclosure and 6000 V surge protection

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Technical Specifications

Model	MI-1200	MI-1500
Input Data (DC)		
Commonly used module power (W)	240–380	300–470
Peak power MPPT voltage range (V)	32–48	
Start-up voltage (V)	22	
Operating voltage range (V)	16–60	
Maximum input voltage (V)	60	
Maximum input current (A)	4 × 10.5	4 × 11.5
Maximum input short circuit current (A)	4 × 15	
Output Data (AC)		
Rated output power (W)	1200	1500
Rated output current (A)	5.45/5.22/5	6.82/6.52/6.25
Nominal output voltage (V)	220/230/240	
Nominal output voltage range (V)	180–275[1]	
Nominal frequency/range (Hz)	50/45–55[1] or 60/55–65[1]	
Power factor	> 0.99	
Total harmonic distortion	< 3%	
Maximum units per branch	4/4/4	3/3/3
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)	280 × 176 × 33	
Weight (kg)	3.75 (including 2.32 m AC cable)	
Enclosure rating	Outdoor NEMA 6 (IP67)	
Cooling	Natural convection (no fans)	
Features		
Communication	2.4 GHz Proprietary RF (Nordic)	
Type of isolation	Galvanically Isolated HF Transformer	
Monitoring	S-Miles Cloud[2]	
Warranty	Up to 25 years	
Compliance	UL 1741, ABNT NBR 16150, IEC/EN 61000-3-2/-3, IEC/EN 61000-6-1/-2/-3/-4, IEC/EN 62109-1/-2, IEC 61727, IEC 62116, IEC 61683, VDE V 0126-1-1:2013	

*1 Nominal voltage/frequency range can vary depending on local requirements.
*2 Hoymiles Monitoring System