



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

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
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 IP67 (NEMA 6)
Cooling		Natural convection (no fans)
Features		
Communication		2.4 GHz Proprietary RF (Nordic)
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