

Microinverter

4 in 1 unit



MI-1000 / MI-1200

“The World’s First Single-Phase Microinverter” designed for 4 solar panels with dual MPPTs, with wide DC input operating voltage range(16-60V) and low start-up voltage (22V only).

Hoymiles 4 in 1 microinverter MI-1000/MI-1200 is “The Best Power Density Microinverter” ever in solar industry with extremely light weight - only 3.75kG including integrated DC & AC cables; 3-phase wiring makes it easy to be configured by Hoymiles 4 in 1 microinverter for MW size commercial PV power stations (one of the world’s biggest microinverter projects configured by Hoymiles microinverter is 3.6MW).

Highlights

- Maximum output power up to 1000/1200W; Adapted to 60 & 72 cells PV panels
- Peak efficiency 96.7%; CEC weighted efficiency 96.5%
- Static MPPT efficiency 99.8%; Dynamic MPPT efficiency 99.76% in overcast weather
- High reliability: NEMA6(IP67) enclosure ; 6000V surge protection

Model	MI-1000 / MI-1200 (4X60 cells / 4X72 cells)		
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Input Data(DC)			
Recommended input power (W)	Up to 1240 / 1520		
Peak power MPPT voltage range (V)	27 ~ 48 / 32 ~ 48		
Start-up voltage(V)	22		
Operating voltage range (V)	16 ~ 60		
Maximum input voltage (V)	60		
Maximum input current (A)	10.5		

Output Data (AC)	@208V AC	@240V AC	@230V AC
Rated output power (W)	1000 / 1200	1000 / 1200	1000 / 1200
Rated output current (A)	4.81 / 5.76	4.16 / 5	4.35 / 5.22
Nominal output voltage/range (V)	208/183-250	240 / 211-264	230/180-275
Nominal frequency/range (Hz)	60/59.3-60.5	60 / 59.3-60.5	50/45-55
Power factor	> 0.99	> 0.99	> 0.99
Output current harmonic distortion	< 3%	< 3%	< 3%
Maximum units per 20A branch	3 / 3	4 / 3	4 / 3

Efficiency	
CEC peak efficiency	96.50%
CEC weighted efficiency	96.00%
Nominal MPPT efficiency	99.80%
Night time power consumption (mW)	<50

Mechanical Data	
Ambient temperature range (°C)	-40 ~ +65
Operating temperature range (°C)	-40 ~ +85
Dimensions (W×H×D mm)	280×176×33
Weight (kG)	3.75(including 1.9m AC cable)
Enclosure rating	NEMA6(IP67)
Cooling	Natural convection - No fans

Loading Quantity		
Container	1X20' GP	1X40' GP / 1X40' HQ
Pallet No.	10	22
Carton No.	360	756
Total Quantity	1800	3780

Other Features	
Communication	Wireless
Design lifetime	> 25 years

Standard Compliance	
EMC	EN61000-6-3:2007+A1:2011EN61000-6-2:2005EN61000-3-2:2014 EN61000-3-3:2013
Safety	EN62109-1:2010EN62109-2:2011IEC 62109-1 Ed 1.0IEC 62109-2 Ed 1.0 UL Std No.1741 -Second EditionEN 60529
On-Grid	AS/NZS 4777.2:2015VDE-AR-N4105:2011-08DIN V VDE V 0126-1-1/A1:2012:02 IEC61727:2004EN50438:2013ANSI/IEEE 1547.1IEC62116:2011UTE C 15-712-1:2010-07 NBT32004-2013

