

# 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)			
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			

