

# 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 is also 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 heavy cloudy day
- High reliability: NEMA6(IP67) enclosure ; 6000V surge protection

| Model                              |  | MI-1000 / MI-1200<br>(4X60 cells / 4X72 cells) |                 |                 |
|------------------------------------|--|--|-----------------|-----------------|
| <b>Input Data(DC)</b>              |  |  |                 |                 |
| 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   |  |                 |                 |
| <b>Output Data (AC)</b>            |  | <b>@208V AC</b>                                | <b>@240V AC</b> | <b>@230V AC</b> |
| 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           |                 |
| <b>Efficiency</b>                  |  |  |                 |                 |
| CEC peak efficiency                | 96.50%   |  |                 |                 |
| CEC weighted efficiency            | 96.00%   |  |                 |                 |
| Nominal MPPT efficiency            | 99.80%   |  |                 |                 |
| Night time power consumption (mW)  | <50  |  |                 |                 |
| <b>Mechanical Data</b>             |  |  |                 |                 |
| 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   |  |                 |                 |
| <b>Loading Quantity</b>            |  |  |                 |                 |
| Container                          | 1X20' GP   | 1X40' GP / 1X40' HQ                            |                 |                 |
| Pallet No.                         | 10   | 22   |                 |                 |
| Carton No.                         | 360  | 756  |                 |                 |
| Total Quantity                     | 1800   | 3780   |                 |                 |
| <b>Other Features</b>              |  |  |                 |                 |
| Communication                      | Wireless   |  |                 |                 |
| Design lifetime                    | > 25 years   |  |                 |                 |
| <b>Standard Compliance</b>         |  |  |                 |                 |
| EMC                                | EN61000-6-3:2007+A1:2011EN61000-6-2:2005EN61000-3-2:2014<br>EN61000-3-3:2013   |  |                 |                 |
| Safety                             | EN62109-1:2010EN62109-2:2011IEC 62109-1 Ed 1.0IEC 62109-2 Ed 1.0<br>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<br>IEC61727:2004EN50438:2013ANSI/IEEE 1547.1IEC62116:2011UTE C 15-712-1:2010-07<br>NBT32004-2013 |  |                 |                 |

