



## MI-1000N/1200N/1500N

**New Product Release**  
**Unique design for 4 PV panels**

### Highlights

- Single microinverter connects four PV modules with dual MPPT
- Peak output power up to 1000/1200/1500W; Adapted to 60 & 72 cells PV panels
- Peak efficiency 96.70%; CEC weighted efficiency 96.50%
- Static MPPT efficiency 99.80%; Dynamic MPPT efficiency 99.76% in overcast weather
- High reliability: NEMA6 (IP67) enclosure; 6000V surge protection



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| Model | MI-1000N | MI-1200N | MI-1500N |
|-------|----------|----------|----------|
|-------|----------|----------|----------|

**Input Data (DC)**

|                                   |                               |                               |                               |
|-----------------------------------|-------------------------------|-------------------------------|-------------------------------|
| Commonly used module power (W)    | 200 ~ 310                     | 240-380                       | 300-470                       |
| Module compatibility              | 60-cell or 72-cell PV modules | 60-cell or 72-cell PV modules | 60-cell or 72-cell PV modules |
| Peak power MPPT voltage range (V) | 27 ~ 48                       | 32-48                         | 36-48                         |
| Start-up voltage (V)              | 22                            | 22                            | 22                            |
| Operating voltage range (V)       | 16-60                         | 16-60                         | 16-60                         |
| Maximum input voltage (V)         | 60                            | 60                            | 60                            |
| Maximum input current (A)         | 4*10.5                        | 4*10.5                        | 4*11.5                        |

**Output Data (AC)**

|                                       |                          |                          |                          |                          |                          |
|---------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Peak output power (W)                 | 1000                     | 1260                     | 1200                     | 1500                     | 1350                     |
| Maximum continuous output power (W)   | 958                      | 1200                     | 1109                     | 1438                     | 1246                     |
| Maximum continuous output current (A) | 3.99                     | 4.61                     | 5                        | 5.33                     | 5.99                     |
| Nominal output voltage/range (V)      | 240/211-264 <sup>1</sup> | 208/183-228 <sup>1</sup> | 240/211-264 <sup>1</sup> | 208/183-228 <sup>1</sup> | 240/211-264 <sup>1</sup> |
| Nominal frequency/range (Hz)          | 60/55-65 <sup>1</sup>    | 60/55-65 <sup>1</sup>    | 60/55-65 <sup>1</sup>    | 60/55-65 <sup>1</sup>    | 60/55-65 <sup>1</sup>    |
| Power factor                          | >0.99                    | >0.99                    | >0.99                    | >0.99                    | >0.99                    |
| Total harmonic distortion             | <3%                      | <3%                      | <3%                      | <3%                      | <3%                      |
| Maximum units per branch <sup>2</sup> | 4                        | 3                        | 3                        | 3                        | 2                        |

**Efficiency**

|                                  |        |        |        |
|----------------------------------|--------|--------|--------|
| CEC peak efficiency              | 96.70% | 96.70% | 96.70% |
| CEC weighted efficiency          | 96.50% | 96.50% | 96.50% |
| Nominal MPPT efficiency          | 99.80% | 99.80% | 99.80% |
| Nighttime power consumption (mW) | <50    | <50    | <50    |

**Mechanical Data**

|                                |                                 |
|--------------------------------|---------------------------------|
| Ambient temperature range (°C) | -40~+65                         |
| Dimensions (W×H×D mm)          | 280x176x33                      |
| Weight (kg)                    | 3.75 (including 2.32m AC cable) |
| Enclosure rating               | Outdoor-NEMA (IP67)             |
| Cooling                        | Natural convection – No fans    |

**Features**

|                   |                                                                                                         |
|-------------------|---------------------------------------------------------------------------------------------------------|
| Communication     | 2.4GHz Proprietary RF(Nordic)                                                                           |
| Monitoring        | Hoymiles monitoring system                                                                              |
| Warranty          | Up to 25 years                                                                                          |
| Compliance        | UL1741, IEEE1547, CSA C22.2 No. 107.1-16, FCC 15B, FCC 15C                                              |
| PV Rapid Shutdown | Conforms with NEC-2014 and NEC-2017 Article 690.12 and CEC-2018 Sec 64-218 Rapid Shutdown of PV Systems |

<sup>1</sup> Nominal voltage/frequency range can be changed due to the requirements of local power department.

<sup>2</sup> Refer to local requirements for exact number of microinverters per branch.