



## MI-300N/350N/400N

### Highlights

- Peak output power up to 300/350/400W; Adapted to 60 & 72 cells PV modules
- 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



| Model                                 | MI-300N                       |              | MI-350N   |              | MI-400N                       |              |
|---------------------------------------|-------------------------------|--------------|---|--------------|-------------------------------|--------------|
| <b>Input Data (DC)</b>                |                               |              |   |              |                               |              |
| Commonly used module power (W)        | 240~380                       |              | 280~440   |              | 320~500                       |              |
| 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)     | 29-48                         |              | 33~48   |              | 34~48                         |              |
| 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)             | 11.5                          |              | 11.5  |              | 12.5                          |              |
| <b>Output Data (AC)</b>               |                               |              |   |              |                               |              |
| Peak output power (W)                 | 300                           |              | 350   |              | 400                           |              |
| Maximum continuous output power (W)   | 295                           |              | 349   |              | 382                           |              |
| Maximum continuous output current (A) | 1.23                          | 1.42         | 1.45  | 1.68         | 1.59                          | 1.84         |
| Nominal output voltage/range (V)      | 240/211-264                   | 208V/183-228 | 240/211-264   | 208V/183-228 | 240/211-264                   | 208V/183-228 |
| Nominal frequency/range (Hz)          | 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                         |              |
| Total harmonic distortion             | <3%                           |              | <3%   |              | <3%                           |              |
| Maximum units per branch <sup>2</sup> | 13                            | 11           | 11  | 9            | 10                            | 8            |
| <b>Efficiency</b>                     |                               |              |   |              |                               |              |
| CEC peak efficiency                   |                               |              | 96.70%  |              |                               |              |
| CEC weighted efficiency               |                               |              | 96.50%  |              |                               |              |
| Nominal MPPT efficiency               |                               |              | 99.80%  |              |                               |              |
| Nighttime power consumption (mW)      |                               |              | <50   |              |                               |              |
| <b>Mechanical Data</b>                |                               |              |   |              |                               |              |
| Ambient temperature range (°C)        |                               |              | -40~+65   |              |                               |              |
| Dimensions (W×H×D mm)                 |                               |              | 178 x 153 x 28  |              |                               |              |
| Weight (kg)                           |                               |              | 1.98  |              |                               |              |
| Enclosure rating                      |                               |              | Outdoor-NEMA (IP67)   |              |                               |              |
| Cooling                               |                               |              | Natural convection – No fans  |              |                               |              |
| <b>Features</b>                       |                               |              |   |              |                               |              |
| 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 |              |                               |              |

\*1 Nominal voltage/frequency range can be changed due to the requirements of local power department.

\*2 Refer to local requirements for exact number of microinverters per branch.