



## HM-300N/350N/400N

The perfect lightweight and compact selection for your PV system

### Highlights

- Easy installation, just plug and play
- External antenna for stronger communication with DTU
- Power factor (adjustable) 0.85 leading.....0.85 lagging
- Compliant with CA Rule 21 & U.S. NEC 2014/2017 690.12 rapid shutdown
- High reliability; NEMA (IP67) enclosure; 6000V surge protection



Safer



Smarter



More Powerful



More Reliable

| Model                                 | HM-300                                                                                                     |                          | HM-350                                       |                          | HM-400                                       |                          |
|---------------------------------------|------------------------------------------------------------------------------------------------------------|--------------------------|----------------------------------------------|--------------------------|----------------------------------------------|--------------------------|
| <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>               |                                                                                                            |                          |                                              |                          |                                              |                          |
| Maximum continuous output power (VA)  | 300                                                                                                        |                          | 350                                          |                          | 400                                          |                          |
| Maximum continuous output current (A) | 1.42                                                                                                       | 1.64                     | 1.66                                         | 1.91                     | 1.89                                         | 2.19                     |
| 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>                     | 208/183-228 <sup>1</sup> |
| Nominal frequency/range (V)           | 60/55-65 <sup>1</sup>                                                                                      |                          | 60/55-65 <sup>1</sup>                        |                          | 60/55-65 <sup>1</sup>                        |                          |
| Power factor (adjustable)             | >0.99 default<br>0.85 leading...0.85 lagging                                                               |                          | >0.99 default<br>0.85 leading...0.85 lagging |                          | >0.99 default<br>0.85 leading...0.85 lagging |                          |
| Total harmonic distortion             | <3%                                                                                                        |                          | <3%                                          |                          | <3%                                          |                          |
| Maximum units per branch <sup>2</sup> | 17                                                                                                         | 15                       | 15                                           | 13                       | 13                                           | 11                       |
| <b>Efficiency</b>                     |                                                                                                            |                          |                                              |                          |                                              |                          |
| 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                                          |                          |
| <b>Mechanical Data</b>                |                                                                                                            |                          |                                              |                          |                                              |                          |
| Ambient temperature range (°C)        | -40~+65                                                                                                    |                          |                                              |                          |                                              |                          |
| Dimensions (W×H×D mm)                 | 182 x 164 x 29.5                                                                                           |                          |                                              |                          |                                              |                          |
| 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                                                                                 |                          |                                              |                          |                                              |                          |
| Compliance                            | UL1741, IEEE1547, UL1741 SA (240Vac), CA Rule21 (240Vac), CSA C22.2 No. 107.1-16 , FCC 15B, FCC 15C        |                          |                                              |                          |                                              |                          |
| PV Rapid Shutdown                     | Conforms with NEC-2014 and NEC-2017 Article 690.12<br>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.

### High Reliability Based on World's Top Supplier Partners








