



## HM-500T/600T/700T/800T

The best daisy-chain microinverter with reactive power control for 2 solar panels

### Highlights

- Easy installation, just plug and play
- External antenna for stronger communication with DTU
- Power factor (adjustable) 0.8 leading.....0.8 lagging
- Compliant with AS/NZS 4777.2 : 2015 & 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-500T |  | HM-600T |  | HM-700T |  | HM-800T |  |
|-------|---------|--|---------|--|---------|--|---------|--|
|-------|---------|--|---------|--|---------|--|---------|--|

**Input Data (DC)**

|                                   |                               |  |                               |  |                               |  |                               |  |
|-----------------------------------|-------------------------------|--|-------------------------------|--|-------------------------------|--|-------------------------------|--|
| Commonly used module power (W)    | 200~310                       |  | 240~380 <sup>1</sup>          |  | 280~440 <sup>1</sup>          |  | 320~500 <sup>1</sup>          |  |
| Module compatibility              | 60-cell or 72-cell PV modules |  | 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                         |  | 29-48                         |  | 33~48                         |  | 34~48                         |  |
| Start-up voltage (V)              | 22                            |  | 22                            |  | 22                            |  | 22                            |  |
| Operating voltage range (V)       | 16~60                         |  | 16-60                         |  | 16~60                         |  | 16~60                         |  |
| Maximum input voltage (V)         | 60                            |  | 60                            |  | 60                            |  | 60                            |  |
| Maximum input current (A)         | 2*10.5                        |  | 2*11.5                        |  | 2*11.5                        |  | 2*12.5                        |  |

**Output Data (AC)**

|  |                           |                          |                           |                          |                           |                          |                           |                          |
|--|---------------------------|--------------------------|---------------------------|--------------------------|---------------------------|--------------------------|---------------------------|--------------------------|
| Rated output apparent power (VA)             | 500                       |                          | 600                       |                          | 700                       |                          | 800                       |                          |
| Rated output current (A)                     | 2.17                      | 2.08                     | 2.61                      | 2.5                      | 3.04                      | 2.92                     | 3.48                      | 3.33                     |
| Nominal output voltage/range (V)             | 230/180-275 <sup>1</sup>  | 240/180-275 <sup>1</sup> | 230/180-275 <sup>1</sup>  | 240/180-275 <sup>1</sup> | 230/180-275 <sup>1</sup>  | 240/180-275 <sup>1</sup> | 230/180-275 <sup>1</sup>  | 240/180-275 <sup>1</sup> |
| Nominal frequency/range (Hz)                 | 50/45-55 <sup>1</sup>     |                          | 50/45-55 <sup>1</sup>     |                          | 50/45-55 <sup>1</sup>     |                          | 50/45-55 <sup>1</sup>     |                          |
| Power factor                                 | >0.99 default             |                          | >0.99 default             |                          | >0.99 default             |                          | >0.99 default             |                          |
|  | 0.8 leading...0.8 lagging |                          | 0.8 leading...0.8 lagging |                          | 0.8 leading...0.8 lagging |                          | 0.8 leading...0.8 lagging |                          |
| Total harmonic distortion                    | <3%                       |                          | <3%                       |                          | <3%                       |                          | <3%                       |                          |
| Maximum units per branch(12AWG) <sup>2</sup> | 10                        | 10                       | 8                         | 8                        | 7                         | 7                        | 6                         | 6                        |
| Maximum units per branch(10AWG) <sup>2</sup> | 13                        | 14                       | 11                        | 12                       | 9                         | 10                       | 8                         | 9                        |

**Efficiency**

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

**Mechanical Data**

|                                |                              |  |  |  |  |  |  |  |
|--------------------------------|------------------------------|--|--|--|--|--|--|--|
| Ambient temperature range (°C) | -40~+65                      |  |  |  |  |  |  |  |
| Dimensions (W×H×D mm)          | 250 x 170 x 28               |  |  |  |  |  |  |  |
| Weight (kg)                    | 2.6                          |  |  |  |  |  |  |  |
| Enclosure rating               | Outdoor-NEMA (IP67)          |  |  |  |  |  |  |  |
| Cooling                        | Natural convection – No fans |  |  |  |  |  |  |  |

**Features**

|               |  |  |  |  |  |  |  |  |
|---------------|--|--|--|--|--|--|--|--|
| Communication | 2.4GHz Proprietary RF(Nordic)  |  |  |  |  |  |  |  |
| Monitoring    | HoyMiles Monitoring System   |  |  |  |  |  |  |  |
| Warranty      | 12 years standard, 25 years optional   |  |  |  |  |  |  |  |
| Compliance    | EN62109-1/-2, EN61000-6-1/-2/-3/-4, EN61000-3-2/-3, AS/NZS4777.2:2015, EN50549-1, VDE-AR-N 4105:2018 |  |  |  |  |  |  |  |

<sup>1</sup> Maximum DC power for each input at 25°C should be limited to 350W according to AS/NZS 5033:2014 4.3.12

<sup>2</sup> Nominal voltage/frequency range can be changed due to the requirements of local power department