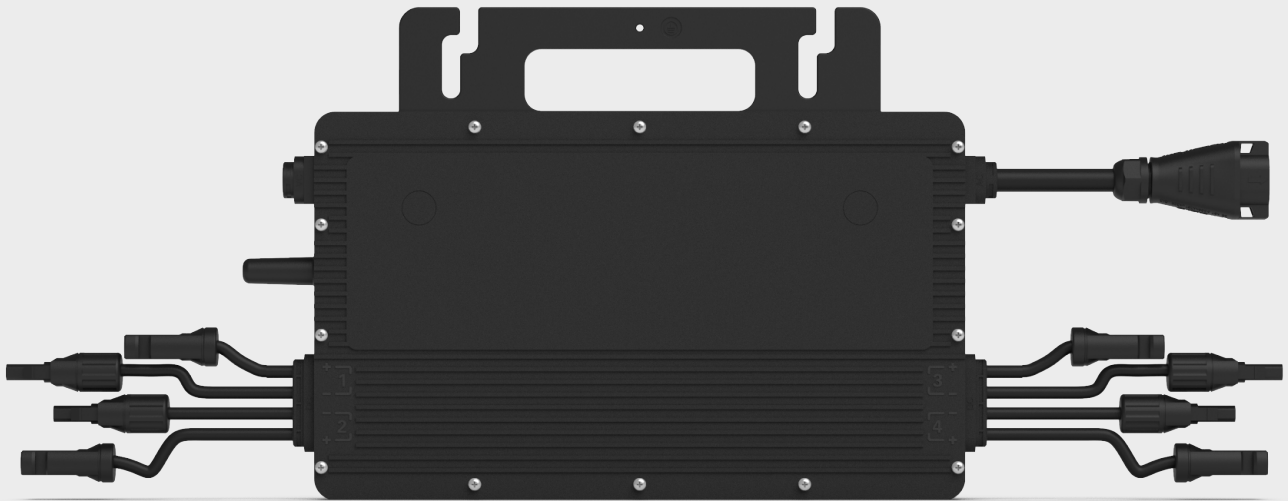




## Microinverter Datasheet

**HMS-1600DW-4T**  
**HMS-1800DW-4T**  
**HMS-2000DW-4T**

### Description

Hoymiles new generation microinverter HMS-2000DW series is designed to accommodate high-powered PV modules, with maximum output power up to 2000 VA and maximum DC input current up to 16 A.

The innovative 4-input design enables faster installation and lower cost, and makes the HMS-2000DW series a very cost-effective choice.

The integrated Wi-Fi module enables more convenient communications and simpler configurations between the microinverter and smart platform S-Miles Cloud.

### Features

01

Built-in Wi-Fi module enables quicker and easier installation and commissioning

02

The industrial-grade Wi-Fi module brings higher microinverter reliability

03

With output power up to 2000 VA, compatible with 182 mm/210 mm PV module

04

4-in-1 design enables faster installation and lower cost

05

Safer for rooftop solar stations with rapid shutdown compliance and isolated transformer

06

IP67 (NEMA 6) protection degree, adapt to outdoor use

## Technical Specifications

| Model                                        | HMS-1600DW-4T |      |      | HMS-1800DW-4T                                                                                                                  |      |      | HMS-2000DW-4T |      |      |
|----------------------------------------------|---------------|------|------|--------------------------------------------------------------------------------------------------------------------------------|------|------|---------------|------|------|
| Input Data (DC)                              |               |      |      |                                                                                                                                |      |      |               |      |      |
| Commonly used module power (W)               | 320 to 540+   |      |      | 360 to 600+                                                                                                                    |      |      | 400 to 670+   |      |      |
| Maximum input voltage (V)                    |               |      |      | 65                                                                                                                             |      |      |               |      |      |
| MPPT voltage range (V)                       |               |      |      | 16-60                                                                                                                          |      |      |               |      |      |
| Minimum/Maximum Start-up voltage (V)         |               |      |      | 22/60                                                                                                                          |      |      |               |      |      |
| Maximum input current (A)                    | 4 × 14        |      |      | 4 × 15                                                                                                                         |      |      | 4 × 16        |      |      |
| Maximum input short circuit current (A)      |               |      |      | 4 × 25                                                                                                                         |      |      |               |      |      |
| Number of MPPTs                              |               |      |      | 2                                                                                                                              |      |      |               |      |      |
| Number of inputs per MPPT                    |               |      |      | 2                                                                                                                              |      |      |               |      |      |
| Output Data (AC)                             |               |      |      |                                                                                                                                |      |      |               |      |      |
| Rated output power (VA)                      | 1600          |      |      | 1800                                                                                                                           |      |      | 2000          |      |      |
| Rated output current (A)                     | 7.27          | 6.96 | 6.67 | 8.18                                                                                                                           | 7.83 | 7.50 | 9.09          | 8.70 | 8.33 |
| Nominal output voltage (V)                   | 220           | 230  | 240  | 220                                                                                                                            | 230  | 240  | 220           | 230  | 240  |
| Output voltage range (V) <sup>1</sup>        |               |      |      | 180–275                                                                                                                        |      |      |               |      |      |
| Nominal frequency/range (Hz) <sup>1</sup>    |               |      |      | 50/45–55 or 60/55–65                                                                                                           |      |      |               |      |      |
| Power factor (adjustable)                    |               |      |      | > 0.99 default<br>0.8 leading ... 0.8 lagging                                                                                  |      |      |               |      |      |
| Total harmonic distortion                    |               |      |      | < 3%                                                                                                                           |      |      |               |      |      |
| Maximum units per 10 AWG branch <sup>2</sup> | 4             | 4    | 4    | 3                                                                                                                              | 4    | 4    | 3             | 3    | 3    |
| Efficiency                                   |               |      |      |                                                                                                                                |      |      |               |      |      |
| CEC peak efficiency                          | 96.70%        |      |      | 96.50%                                                                                                                         |      |      | 96.50%        |      |      |
| Nominal MPPT efficiency                      |               |      |      | 99.80%                                                                                                                         |      |      |               |      |      |
| Night power consumption (mW)                 |               |      |      | < 50                                                                                                                           |      |      |               |      |      |
| Mechanical Data                              |               |      |      |                                                                                                                                |      |      |               |      |      |
| Ambient temperature range (°C)               |               |      |      | -40 to +65                                                                                                                     |      |      |               |      |      |
| Dimensions (W × H × D [mm])                  |               |      |      | 310 × 185 × 40.6                                                                                                               |      |      |               |      |      |
| Weight (kg)                                  |               |      |      | 4.5                                                                                                                            |      |      |               |      |      |
| Enclosure rating                             |               |      |      | Outdoor-IP67 (NEMA 6)                                                                                                          |      |      |               |      |      |
| Cooling                                      |               |      |      | Natural convection – No fans                                                                                                   |      |      |               |      |      |
| Features                                     |               |      |      |                                                                                                                                |      |      |               |      |      |
| Communication                                |               |      |      | Wi-Fi                                                                                                                          |      |      |               |      |      |
| Topology                                     |               |      |      | Galvanically Isolated HF Transformer                                                                                           |      |      |               |      |      |
| Monitoring                                   |               |      |      | S-Miles Cloud <sup>3</sup>                                                                                                     |      |      |               |      |      |
| Compliance                                   |               |      |      | IEC 61727, IEC 62116, IEC 61683, IEC60068-2-1/-2/-14/-30,<br>IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4, IEC/EN 61000-3-2/-3 |      |      |               |      |      |

\*1 Nominal voltage/frequency range can vary depending on local requirements.

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

\*3 Hoymiles Monitoring System