# Microinverter Datasheet

HMS-1600-4WB
HMS-1800-4WB
HMS-2000-4WB

## Description

The HMS-2000-4WB series microinverter is designed for mini solar systems. It features a built-in Wi-Fi & Bluetooth communication module and can deliver output power up to 2000 VA.

Each microinverter can connect up to four panels, maximizing power production and reducing costs. With the plug-and-play HMS Cable System, installation is hassle-free and can be done in minutes without complicated wiring.

Additionally, the new S-Miles Balcony App makes it easy to customize your smart home solar system.

## Features

**01** Plug-and-play design for balcony solar systems

**02** Built-in Wi-Fi & Bluetooth module ensures wireless security and reliability

**03** Supports cloud-based or local solar system configurations

**04** Works with the S-Miles Balcony app to customize your smart home solar system

**05** Meets ETSI EN 303 645 cybersecurity standards for enhanced privacy protection

**06** Enhanced safety by using rapid shutdown compliance and an isolated transformer

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# Technical Specifications

| Model | HMS-1600-4WB | HMS-1800-4WB | HMS-2000-4WB |
|---|---|---|---|
| **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 to 60 | |
| Min./Max. start 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 | | 4 | |
| Number of inputs per MPPT | | 1 | |
| **Output Data (AC)** | | | |
| Rated output power (VA) | 1600 | 1800 | 2000 |
| Rated output current (A) | 6.96 | 7.83 | 8.70 |
| Nominal output voltage/range (V)[*] | | 230/180 to 275 | |
| Nominal frequency/range (Hz)[*] | | 50/45 to 55 | |
| Adjustable power factor (@Rated power) | | >0.99 default<br>0.8 leading ... 0.8 lagging | |
| Total harmonic distortion (@Rated power) | | <3% | |
| **HMS Plug and Play Cable (Optional)** | | | |
| Connector type | | HMS Field Connector | |
| Cable size (mm$^2$) | | 1.5 | |
| Cable length (m) | | 5 (customizable) | |
| Plug type | | Schuko | |
| **Efficiency** | | | |
| 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 | |
| Storage temperature range (°C ) | | -40 to +85 | |
| Dimensions (W × H × D [mm]) | | 331 × 218 × 40.6 | |
| Weight (kg) | | 5.6 | |
| Enclosure rating | | Outdoor - IP67 | |
| Cooling | | Natural convection – No fans | |
| **Features** | | | |
| Communication with cloud | | 2.4G Wi-Fi | |
| Communication with local app | | Bluetooth | |
| Topology | | Galvanically Isolated HF Transformer | |
| Interface | | LED & App | |
| Compliance | | VDE-AR-N 4105: 2018, EN 50549-1: 2019, VFR 2019,<br>IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4, IEC/EN 61000-3-2/-3 | |

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