



## 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		
<b>Input Data (DC)</b>									
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								
<b>Output Data (AC)</b>									
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								
Output voltage range (V)	185–275								
Nominal frequency/range (Hz) <sup>1</sup>	50/45–55 or 60/55–65								
Power factor (adjustable)	> 0.99 default 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
<b>Efficiency</b>									
CEC peak efficiency	96.50%								
Nominal MPPT efficiency	99.80%								
Night power consumption (mW)	< 50								
<b>Mechanical Data</b>									
Ambient temperature range (°C)	-40 to +65								
Dimensions (W × H × D [mm])	310 × 186 × 39.6								
Weight (kg)	4.45								
Enclosure rating	Outdoor-IP67 (NEMA 6)								
Cooling	Natural convection – No fans								
<b>Features</b>									
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, 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