



# Microinverter Datasheet

**HMS-1600**  
**HMS-1800**  
**HMS-2000**

## Description

With the output power up to 2000 VA, Hoymiles new microinverter HMS-2000 series rank among the highest for 4-in-1 microinverters.

All of these three models listed are equipped with reactive power control and can meet the requirements of EN 50549-1:2019, VDE-AR-N 4105:2018, UL 1741, etc.

The new Sub-1G wireless solution enables more stable communication with Hoymiles gateway DTU.

## Features

- |                                                                                                                                 |                                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| <p><b>01</b> High-powered microinverter with output power up to 2000 VA</p>                                                     | <p><b>04</b> 4-in-1 design enables faster installation and comes with a lower cost</p>                      |
| <p><b>02</b> Independent MPPT and monitoring ensure greater energy harvest and easier maintenance</p>                           | <p><b>05</b> Safer for rooftop solar stations with rapid shutdown compliance and isolated transformer</p>   |
| <p><b>03</b> With Reactive Power Control, compliant with EN 50549-1:2019, VDE-AR-N 4105:2018, UL 1741, ABNT NBR 16150, etc.</p> | <p><b>06</b> Sub-1G wireless solution allows stable communication in commercial and industrial settings</p> |

## Technical Specifications

Model	HMS-1600-4T			HMS-1800-4T			HMS-2000-4T		
<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								
Start-up voltage (V)	22								
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								
<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	7.5	9.09	8.7	8.33
Nominal output voltage/range (V) <sup>1</sup>	220/180-275	230/180-275	240/180-275	220/180-275	230/180-275	240/180-275	220/180-275	230/180-275	240/180-275
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 10AWG branch <sup>2</sup>	4	4	4	3	4	4	3	3	3
<b>Efficiency</b>									
CEC peak efficiency	96.7%			96.5%			96.5%		
Nominal MPPT efficiency	99.8%								
Night power consumption (mW)	< 50								
<b>Mechanical Data</b>									
Ambient temperature range (°C)	-40 to +65								
Dimensions (W × H × D mm)	331 × 218 × 40.6								
Weight (kg)	5.56								
Enclosure rating	Outdoor-IP67 (NEMA 6)								
Cooling	Natural convection-No fans								
<b>Features</b>									
Communication	Sub-1G								
Type of isolation	Galvanically Isolated HF Transformer								
Monitoring	S-Miles Cloud <sup>3</sup>								
Compliance	EN 50549-1: 2019, VDE-AR-N 4105: 2018, UL 1741, ABNT NBR 16150, 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