



# Microinverter Datasheet

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

## Description

With the output power up to 2000 VA, Hoymiles new microinverter HMS-1600/1800/2000-4T ranks among the highest for 4-in-1 microinverters.

Each microinverter can connect up to 4 panels, with independent MPPT and monitoring maximizing the power production of your installation.

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

## Features

- 01 High-powered microinverter with output power up to 2000 VA
- 02 Independent MPPT and monitoring ensure greater energy harvest and easier maintenance
- 03 With Reactive Power Control, compliant with VDE-AR-N 4105:2018, IEC 61727, IEC 62116, etc.

- 04 4-in-1 design enables faster installation and comes with a lower cost
- 05 Safer for rooftop solar stations with rapid shutdown compliance and isolated transformer
- 06 Sub-1G wireless solution allows stable communication in commercial and industrial settings

## 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					
Max. inverter backfeed current to the array (A)				0					
<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/range (V)*	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)*				50/45-55 or 60/55-65					
Inrush current for AC output port (A)				80@50µs					
Maximum output fault current (A)				12					
Maximum output overcurrent protection (A)				9.6					
Adjustable power factor (@nominal power)				> 0.99 default 0.8 leading ... 0.8 lagging					
Total harmonic distortion (@nominal power)				< 3%					
Maximum units per 6 mm <sup>2</sup> line**	5	5	6	4	5	5	4	4	4
<b>Efficiency</b>									
CEC peak efficiency	96.70%			96.50%			96.50%		
Nominal MPPT efficiency				99.80%					
Night power consumption (mW)				< 50					
<b>Mechanical Data</b>									
Ambient temperature range (°C)				-40 to +65					
Operating temperature range (°C)				-40 to +65					
Relative humidity				0-100					
Dimensions (W × H × D [mm])				331 × 218 × 40.6					
Weight (kg)				5.56					
Pollution degree				PD III					
Maximum operating altitude (m)				2000					
Cooling				Natural convection-No fans					
DC connection type				Stäubli MC4 DC Connector-M/F					
<b>Protection</b>									
Overvoltage category				PV: II; Main: III					
Protective class				I					
Enclosure rating				Outdoor-IP67					
Type of isolation				Galvanically Isolated HF Transformer					
Active anti-islanding method				Power variation					
Decisive voltage class				DC: A; AC: C					
<b>Features</b>									
Communication				Sub-1G (915 to 918 MHz)					
Monitoring				S-Miles Cloud (Hoymiles Monitoring Platform)					
Compliance				EN 50549-1: 2019, VDE-AR-N 4105: 2018, UL 1741, IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4, IEC/EN 61000-3-2/-3, IEC 62116, IEC 61683, IEC 60068-2-1/-14/-30, IEC 62920					

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

\*\* : Refer to local requirements for exact number of microinverters per AC output line.