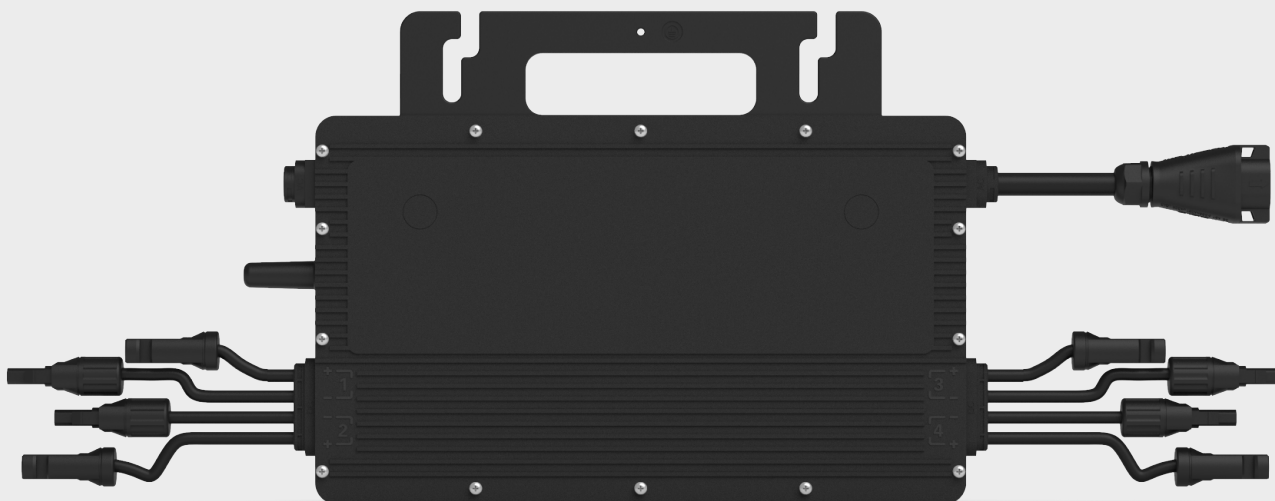




Microinverter Datasheet

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)												
Maximum continuous output power (VA)	1600				1800				2000			
Maximum continuous output current (A)	7.69	7.27	6.96	6.67	8.65	8.18	7.83	7.50	9.62	9.09	8.70	8.33
Nominal output voltage (V)	208	220	230	240	208	220	230	240	208	220	230	240
Output voltage range (V) ¹					180–275							
Nominal frequency/range (Hz) ¹					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 ²	4	4	4	4	3	3	4	4	3	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 ³							
Compliance					UL 1741, ABNT NBR 16150:2013, ABNT NBR 16149:2013							

*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