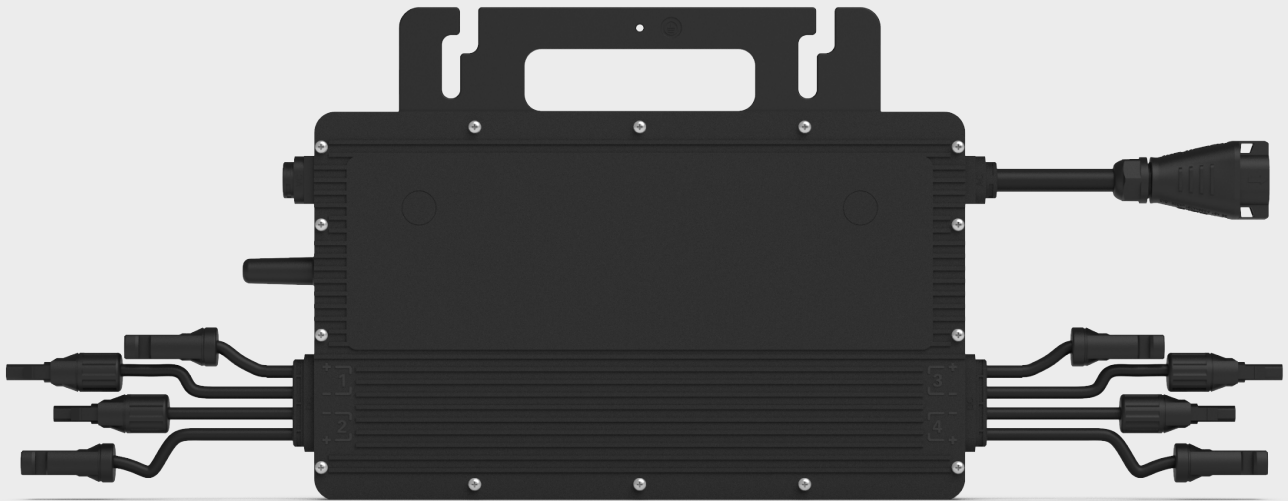




Microinverter Datasheet

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)										
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	220	230	240	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	3	4	4	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					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