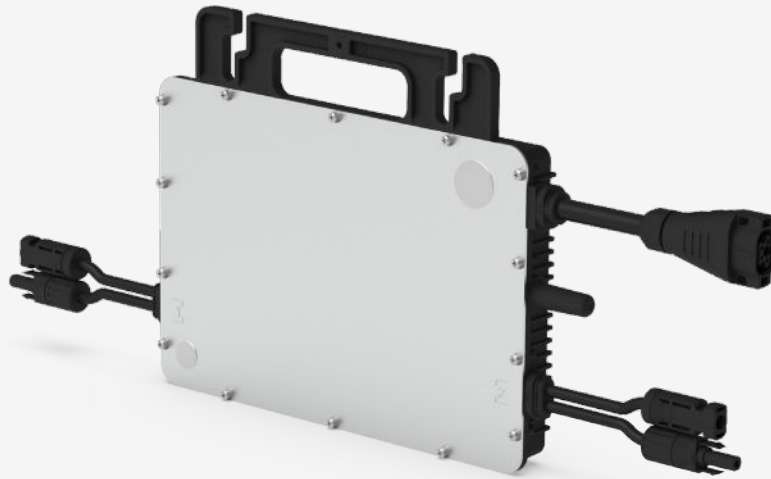




Microinverter Datasheet

HMS-600W-2T
HMS-700W-2T
HMS-800W-2T
HMS-900W-2T
HMS-1000W-2T

Description

Hoymiles HMS-1000W series microinverters are specifically designed for mini PV systems, such as balcony systems, and feature an integrated industrial+ grade Wi-Fi module.

With the user-friendly HMS Plug and Play Cable, installation is effortless. Users can connect the microinverter directly to a socket—no complex wiring is required.

Additionally, system monitoring is simplified for the HMS-1000W series with two convenient options: real-time monitoring via Direct Connection and remote control through the S-Miles Cloud platform.

Features

01 Plug-and-play design for balcony solar systems

02 Built-in industrial+ grade Wi-Fi module for high reliability

03 Two options for monitoring and management: Direct Connection and S-Miles Cloud

04 Output power setting function to customize performance

05 Enhanced safety with rapid shutdown compliance and isolated transformer

06 High-powered microinverter with up to 1000 VA output

Technical Specifications

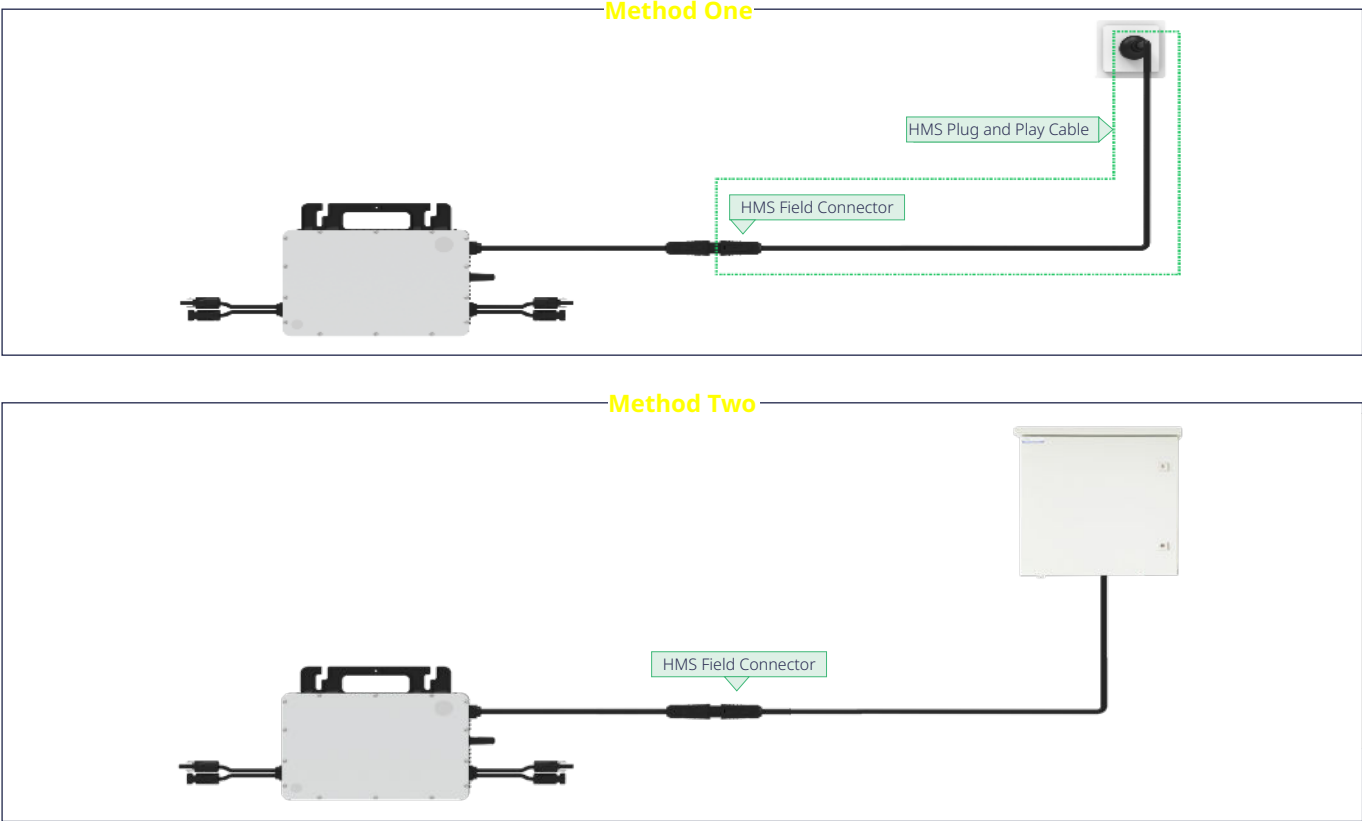
Model	HMS-600W-2T						HMS-700W-2T			HMS-800W-2T			HMS-900W-2T			HMS-1000W-2T		
Input Data (DC)																		
Commonly used module power (W)	240 to 405+			280 to 470+			320 to 540+			360 to 600+			400 to 670+					
Maximum input voltage (V)	60			60			65			65			65					
MPPT voltage range (V)	16-60																	
Min./Max. start voltage (V)	22/60																	
Maximum input current (A)	2 × 12			2 × 13			2 × 14			2 × 15			2 × 16					
Maximum input short circuit current (A)	2 × 20			2 × 20			2 × 25			2 × 25			2 × 25					
Number of MPPTs	2																	
Number of inputs per MPPT	1																	
Output Data (AC)																		
Rated output power (VA)	600			700			800			900			1000					
Rated output current (A)	2.73	2.61	2.50	3.18	3.04	2.92	3.64	3.48	3.33	4.09	3.91	3.75	4.55	4.35	4.17			
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	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																	
Adjustable power factor (@nominal power)	>0.99 default 0.8 leading ... 0.8 lagging																	
Total harmonic distortion (@nominal power)	< 3%																	
Maximum units per 2.5 mm² line**	8	9	9	7	7	8	6	6	7	5	6	6	5	5	5			
HMS Plug and Play Cable (Optional)																		
Connector type	HMS Field Connector																	
Cable size	1.5 mm ²																	
Cable length	3 m (Customizable)																	
Plug type	Schuko																	
Efficiency																		
CEC peak efficiency	96.70%			96.70%			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																	
Storage temperature range (°C)	-40 to +85																	
Dimensions (W × H × D [mm])	261 × 180 × 35.1																	

Technical Specifications

Model	HMS-600W-2T	HMS-700W-2T	HMS-800W-2T	HMS-900W-2T	HMS-1000W-2T
Weight (kg)	3.2				
Enclosure rating	Outdoor-IP67				
Cooling	Natural convection – No fans				
Features					
Communication	Built-in Wi-Fi				
Topology	Galvanically Isolated HF Transformer				
Monitoring	Toolkit or S-Miles Cloud (Hoymiles Monitoring Platform)				
Compliance	VDE-AR-N 4105: 2018, EN 50549-1: 2019, VFR 2019, IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4, IEC/EN 61000-3-2/-3				

* : Nominal voltage/frequency range may vary based on local requirements.
***: Refer to local requirements for exact number of microinverters per AC output line.

Wiring Diagram



Communication Diagram

