

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)	2.73 220/	2.61 230/	2.50 240/	3.18 220/	3.04 230/	2.92 240/	3.64 220/	3.48 230/	3.33 240/	4.09 220/	3.91 230/	3.75 240/	4.55 220/	4.35 230/	4.17 240/
Nominal output voltage/range (V)*	180-275	180-275	180-275	180-275	180-275	180-275	180-275	180-275	180-275	180-275	180-275	180-275	180-275	180-275	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 mm ² 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														

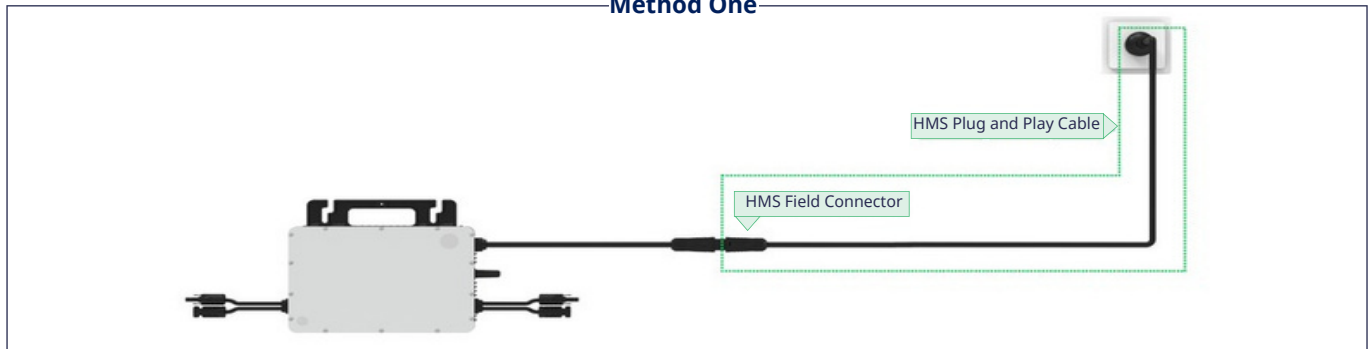
Technical Specifications

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					
Topology	Built-in Wi-Fi				
Monitoring	Galvanically Isolated HF Transformer				
	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				

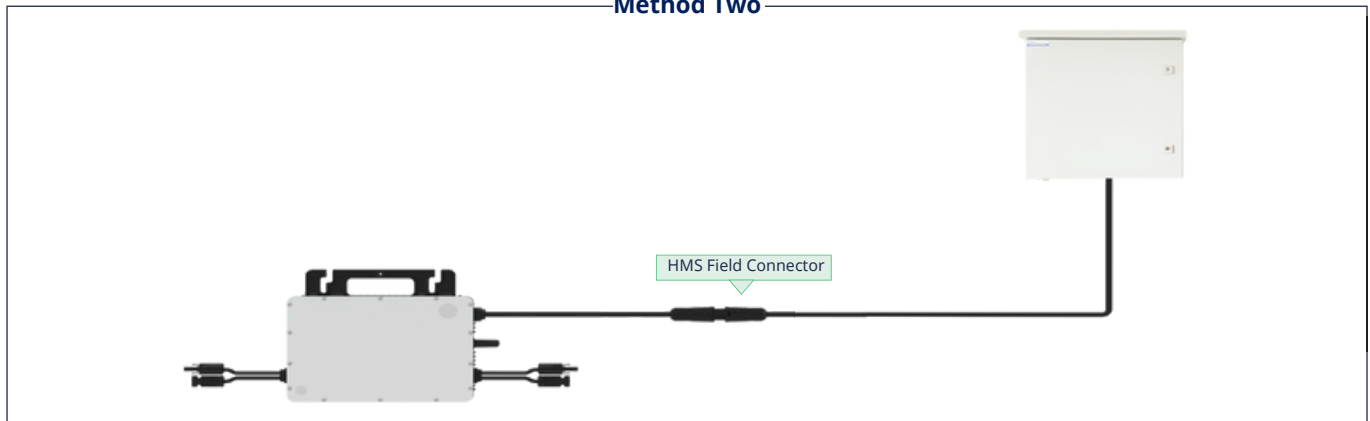
* : Nominal voltage/frequency range may vary based on local requirements.
 **: Refer to local requirements for exact number of microinverters per AC output line.

Wiring Diagram

Method One



Method Two

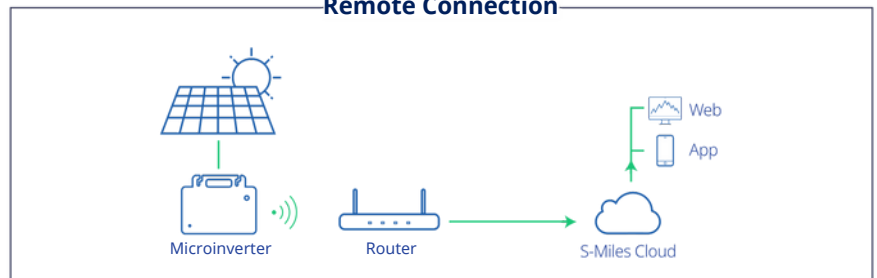


Communication Diagram

Direct Connection



Remote Connection



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