hoymiles



Microinverter Datasheet

HMS-300W-1T HMS-350W-1T HMS-400W-1T HMS-450W-1T HMS-500W-1T

Description

Specifically designed for mini solar systems in open spaces like balconies, Hoymiles HMS-500W series microinverters feature integrated industrial+ grade Wi-Fi module. Their output power reaches up to 500 VA.

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

Additionally, system monitoring is simplified for the HMS-500W 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	04	1-in-1 design to suit versatile installation scenarios
02	Built-in industrial+ grade Wi-Fi module for high reliability	05	Output power setting function to customize performance
03	Enhanced safety with rapid shutdown compliance and isolated transformer	06	Two options for monitoring and management: Direct Connection and S-Miles Cloud

Technical Specifications

Model	HMS-300W-1T	HMS-350W-1T	HMS-400W-1T	HMS-450W-1T	HMS-500W-1T		
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)	12	13	14	15	16		
Maximum input short circuit current (A)	20	20	25	25	25		
Number of MPPTs	1						
Number of inputs per MPPT	1						
Output Data (AC)							
Rated output power (VA)	300	350	400	450	500		
Rated output current (A)	1.30	1.52	1.74	1.96	2.17		
Nominal output voltage/range (V) *	230/180-275						
Nominal frequency/range $(Hz)^*$	50/45-55						
Adjustable power factor (@nominal power)	>0.99 default 0.8 leading 0.8 lagging						
Number of microinverter per 2.5 mm ² line**	18	15	13	12	11		
Total harmonic distortion (@nominal power)			< 3%				
HMS Plug and Play Cable (Optional)							
Connector type		ŀ	HMS Field Connecto	or			
Cable size	1.5 mm ²						
Cable length	5 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])	182 × 164 × 30						
Weight (kg)	1.75						

Technical Specifications

Model	HMS-300W-1T	HMS-350W-1T	HMS-400W-1T	HMS-450W-1T	HMS-500W-1T		
Enclosure rating	Outdoor - IP67						
Cooling	Natural convection – No fans						
Features							
Communication	Built-in Wi-Fi						
Тороlоду	Galvanically Isolated HF Transformer						
Monitoring	Toolkit or S-Miles Cloud						
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 can vary depending on local requirements.							

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

Wiring Diagram





Communication Diagram

