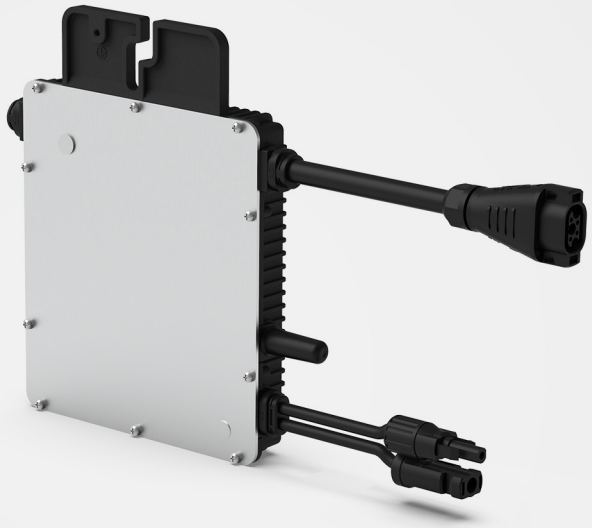

Microinverter Datasheet

HMS-300
HMS-350
HMS-400
HMS-450
HMS-500

Description

With the output power up to 500 VA, Hoymiles new microinverter HMS-500 series rank among the highest for 1-in-1 microinverters.

All of these models listed are equipped with reactive power control and can meet the requirements of EN 50549-1:2019, VDE-AR-N 4105:2018, VFR2019, etc.

The new Sub-1G wireless solution enables more stable communication under various environmental conditions.

Features

01 High-powered microinverter for 1-in-1 with output power up to 500 VA

02 With Reactive Power Control, compliant with EN 50549-1:2019, VDE-AR-N 4105:2018, VFR2019, etc.

03 Safer for rooftop solar stations with rapid shutdown compliance and isolated transformer

04 Connected to one panel, flexible for various applications

05 Sub-1G wireless solution allows stable communication with Hoymiles gateway DTU

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Technical Specifications

Model	HMS-300-1T	HMS-350-1T	HMS-400-1T	HMS-450-1T	HMS-500-1T
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				
Start-up voltage (V)	22				
Maximum input current (A)	11.5	11.5	12.5	13.3	14
Maximum input short circuit current (A)	16	16	20	20	20
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)[1]	230/180–275				
NNominal frequency/range (Hz)[1]	50/45-55				
Power factor (adjustable)	> 0.99 default 0.8 leading...0.8 lagging				
Total harmonic distortion	< 3%				
Maximum units per 10AWG branch[2]	24	21	18	16	14
Maximum units per 12AWG branch[2]	15	13	11	10	9
Efficiency					
CEC peak efficiency	96.7%	96.7%	96.7%	96.5%	96.5%
Nominal MPPT efficiency	99.8%				
Night power consumption (mW)	< 50				
Mechanical Data					
Ambient temperature range (℃)	-40 to +65				
Dimensions (W × H × D mm)	182 × 164 × 30				
Weight (kg)	1.75				
Enclosure rating	Outdoor-IP67 (NEMA 6)				
Cooling	Natural convection-No fans				
Features					
Communication	Sub-1G				
Type of isolation	Galvanically Isolated HF Transformer				
Monitoring	Hoymiles S-Miles Cloud[3]				
Compliance	EN 50549-1: 2019, VDE-AR-N 4105: 2018, VFR2019, 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

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