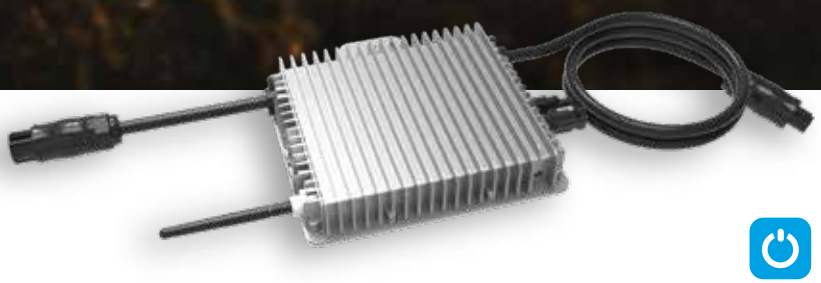
Microinverter

SUN300G3-EU-230
SUN500G3-EU-230



- Rapid shutdown function
- IP67 protection degree，10 years warranty
- PLC, Zigbee or WIFI communication
- 1 MPP trackers, module level monitoring

Deye

Clean Power For You

Microinverter

Model	SUN300G3-EU-230	SUN500G3-EU-230
Input Data (DC)		
Recommended input Power (STC)	210~400W (1 Piece)	210~600W (1 Piece)
Maximum input DC Voltage	60V	
MPPT Voltage Range	25~55V	
Operating DC Voltage Range	20~60V	
Max. DC Short Circuit Current	16A	
Max. input Current	10.5A×1	12.5A×1
Output Data (AC)		
Rated output Power	300W	500W
Maximum output Power	330W	550W
Maximum output Current	1.4A	2.4A
Nominal Voltage / Range	230V / 184-265V	
Nominal Frequency / Range	50 / 60Hz	
Extended Frequency / Range	45~55Hz / 55~65Hz	
Power Factor	>0.99	
Maximum units per branch	17	10
Efficiency		
CEC Weighted Efficiency	95%	
Peak Inverter Efficiency	96.5%	
Static MPPT Efficiency	99%	
Night Time Power Consumption	50mW	
Mechanical Data		
Ambient Temperature Range	-40~65℃	
Size (mm)	212W×229H×40D (Without mounting bracket and cable)	
Weight (kg)	3.5	
Cooling	Natural cooling	
Enclosure Environmental Rating	IP67	
Features		
Compatibility	Compatible with 60~72 cell PV modules	
Communication	Power line / WIFI / Zigbee	
Compliance	EN50549、VDE0126、VDE4105、IEC62109、CE、INMETRO	
Warranty	10 years	

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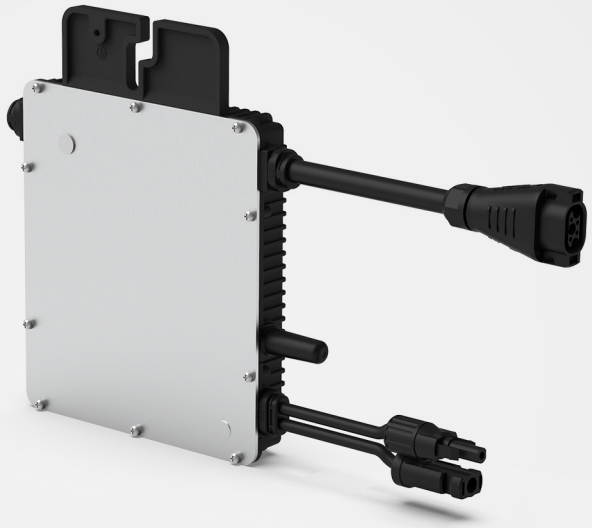

Microinverter Datasheet

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