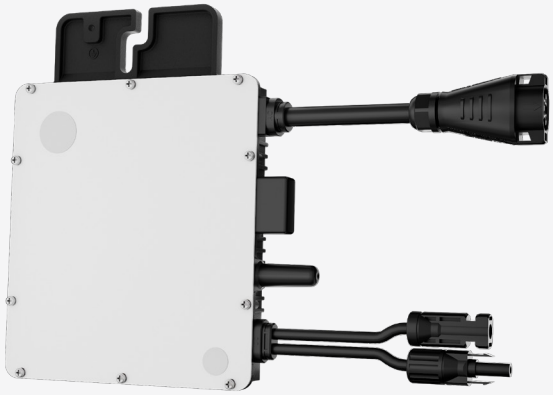


Microinverter Datasheet

HMS-300-1WB
HMS-350-1WB
HMS-400-1WB
HMS-450-1WB
HMS-500-1WB

Description

The HiFlow Pro 1-in-1 series microinverter is designed to fit various residential spaces such as balconies, terraces, and gardens. It features a built-in Wi-Fi & Bluetooth communication module and can deliver output power up to 500 VA.

Pairing perfectly with the Flex-S3 Cable System, the HiFlow Pro 1-in-1 series microinverter offers a hassle-free plug-and-play installation. No complicated wiring is needed - you can set it up within minutes.

Moreover, the new S-Miles Home App enhances functionality, enabling effortless customization of your smart home solar system.

Features

01 Provides multiple installation options with its 1-in-1 design and plug-and-play functionality

02 Built-in Wi-Fi & Bluetooth module ensures wireless security and reliability

03 Supports cloud-based or local solar system configurations

04 Works with the S-Miles Home app to customize your smart home solar system

05 Meets ETSI EN 303 645 cybersecurity standards for enhanced privacy protection

06 Enhanced safety by using rapid shutdown compliance and an isolated transformer

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Technical Specifications

Model	HMS-300-1WB	HMS-350-1WB	HMS-400-1WB	HMS-450-1WB	HMS-500-1WB
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 to 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 to 275				
Nominal frequency/range (Hz)*	50/45 to 55				
Adjustable power factor (@nominal power)	>0.99 default 0.8 leading ... 0.8 lagging				
Total harmonic distortion (@nominal power)	<3%				
Flex-S3 Plug and Play Cable-CEE7/7					
Connector type	Flex-S3 Field Connector				
Cable size (mm^2)	1				
Cable length (m)	5				
Plug type	Schuko				
Efficiency					
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)	1.8				
Enclosure rating	Outdoor - IP67				
Cooling	Natural convection – No fans				
Features					
Communication with cloud	2.4G Wi-Fi				
Communication with local app	Bluetooth				
Topology	Galvanically Isolated HF Transformer				
Interface	LED & App				
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.

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