Hoymiles

Open Energy for All

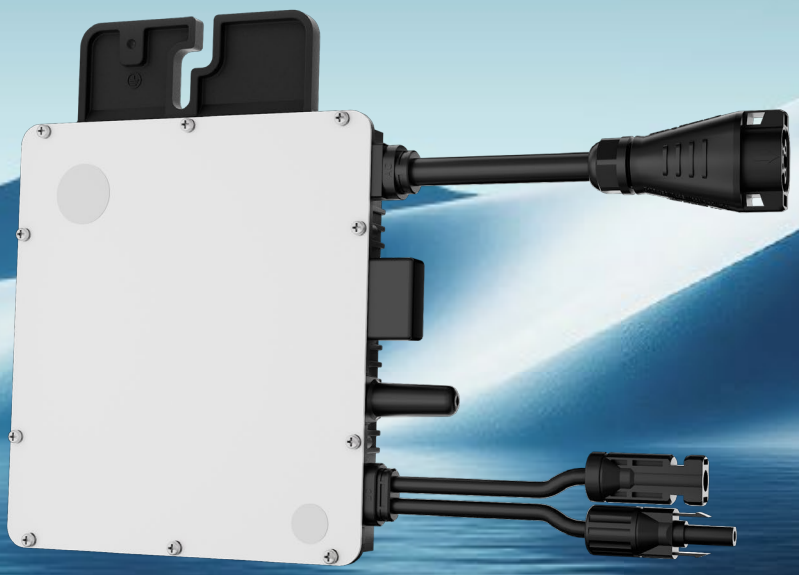
SINGLE-PHASE MICROINVERTER

The HiFlow Pro 1-in-1 series microinverter is a plug-in inverter designed for residential installations such as balconies, terraces, and gardens. It features a plug-and-play design that eliminates complex wiring and simplifies installation. With a built-in Wi-Fi & Bluetooth module, it enables direct communication without the need for an additional DTU, allowing for fast and easy setup.

This microinverter delivers output power of up to 500 VA. Its advanced MPPT algorithm improves energy harvest and ensures stable performance under a wide range of conditions.

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

HiFlow (300-500) Pro



Features

01 Advanced MPPT algorithm supports multiple PV orientations

02 Built-in Wi-Fi & Bluetooth module enables remote and local commissioning for different installation scenarios

03 Plug-and-play design allows a fast and easy installation, reducing the labor costs and installation time

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 Integrated rapid shutdown and isolated transformer improve system safety and eliminate the risk of arc faults

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%				
Plug and Play Cable					
Connector type	Flex-S3 Field Connector				
Cable size (mm^2)	1				
Cable length (m)	5 (Customizable)**				
Plug type	Type-G (For UK) / Schuko (Rest EU)				
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, NF 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.
**: For plug-and-play cable lengths other than the standard 5 m, please contact your distributor for a custom order.

© 2026 Hoymiles Power Electronics Inc. All rights reserved.