Hoymiles

Open Energy for All

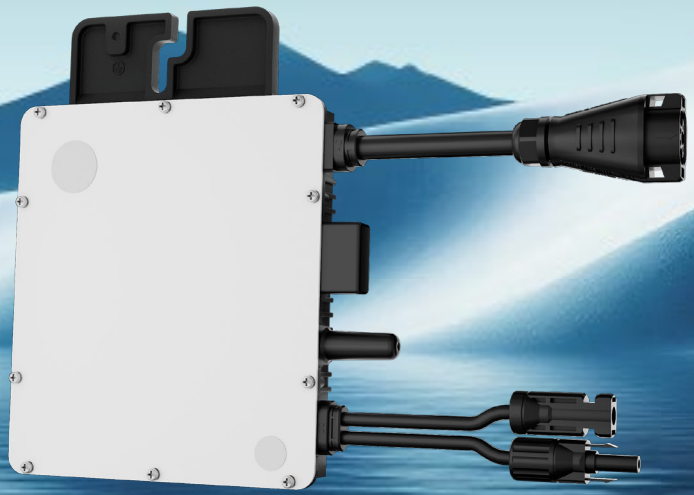
PLUG-IN MICROINVERTER

The HiFlow Pro LV 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 (360-500) Pro LV



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 for fast and easy installation, reducing 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-360-1WM-LV	HMS-391-1WM-LV	HMS-420-1WM-LV	HMS-450-1WM-LV	HMS-500-1WM-LV
Input Data (DC)					
Commonly used module power (W)	280 to 470+	300 to 510+	320 to 540+	360 to 600+	400 to 670+
Maximum input voltage (V)	60	65	65	65	65
MPPT voltage range (V)	16 to 60				
Start-up voltage (V)	22				
Maximum input current (A)	14	14	14	15	16
Maximum input short circuit current (A)	20	25	25	25	25
Number of MPPTs	1				
Number of inputs per MPPT	1				
Output Data (AC)					
Rated output power (VA)	360	391	420	450	500
Rated output current (A)	3.0	3.26	3.5	3.75	4.17
Nominal output voltage/range (V)*	120/90 to 150				
Nominal frequency/range (Hz)*	60/55 to 65				
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 (AWG)	14				
Cable length (inches)	15 / 4.57 m (Customizable)**				
Plug type	Type B				
Efficiency					
Peak efficiency	95.50%				
Nominal MPPT efficiency	99.80%				
Night power consumption (mW)	< 50				
Mechanical Data					
Ambient temperature range (°F)	-40 to +149 / -40°C to +65°C				
Dimensions (W × H × D [inches])	7.17 × 6.46 × 1.18 / 182 × 164 × 30 mm				
Weight (lb.)	4.0 / 1.8 kg				
Enclosure rating	NEMA 6 / Outdoor - IP67				
Cooling	Natural convection – No fans				
Features					
Communication protocol	2.4G Wi-Fi + Bluetooth				
Topology	Galvanically Isolated HF Transformer				
Interface	LED & S-Miles Home App				
Compliance	UL 1741, UL 3700, IEEE 1547				

* : Nominal voltage/frequency range can vary depending on local requirements.
**: If you need another cable length plug-and-play cable, please contact your distributor to customize.

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