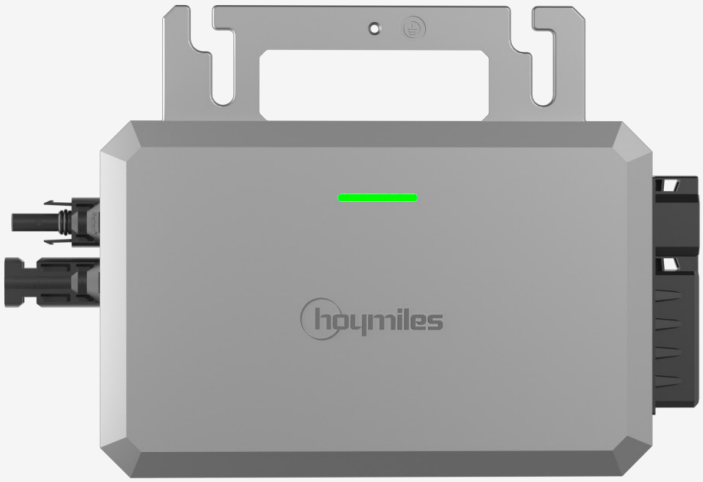


HiFlow Series Microinverter Datasheet

HF-800-WB

Descriptions

The HF-800-WB microinverter provides a cost-effective solution for residential PV systems. It is lighter, smaller, but has a maximum output of 800 VA.

With the built-in Wi-Fi & Bluetooth module, it can communicate directly and reliably with the S-Miles Cloud, eliminating the need for an extra DTU.

It features hassle-free plug-and-play installation, taking just minutes to set up. Moreover, the new S-Miles Home App enables effortless customization of your smart home solar system.

Features

01 **Easy Installation and Configuration**
- *Plug & play connection, eliminating complex wiring*
- *Built-in Wi-Fi & Bluetooth module, supporting device management without App registration*

02 **High Yields**
- *Peak efficiency 97%, fully utilizing energy*
- *MPPT efficiency 99.8%, ensuring efficient power generation*

03 **High Reliability**
- *IP 67 rating, -40 °C to 65 °C operating temperature range, adapting to various harsh environments*
- *12-year long warranty period*

04 **High Safety**
- *Compliant with GDPR and RED-EN 18031 for enhanced data security*
- *Instant voltage cut-off to 34 V within 1 second*

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Technical Specifications

Model	HF-800-WB
Input Data (DC)	
Commonly used module power (W)	320 to 520+
Maximum input voltage (V)	100
MPPT voltage range (V)	16 to 96
Peak MPPT voltage range (V)	54 to 80
Min./Max. start voltage (V)	22/96
Maximum input current (A)	16
Maximum input short circuit current (A)	25
Peak short-circuit current (A)	5.8
Number of MPPTs	1
Number of inputs per MPPT	1
Maximum inverter backfeed current to the array (A)	0
DC overvoltage category	II
Output Data (AC)	
Rated output power (VA)	800
Rated output current (A)	3.48
Nominal output voltage/range (V)*	230/184 to 276
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%
AC port backfeed under single fault (A)	0
AC overvoltage category	II
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	97.00%
European weighted efficiency	96.00%
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])	213 × 182.5 × 36.5 (Excluding Connectors and Brackets)
Weight (kg)	2.1
Enclosure rating	Outdoor - IP67
Cooling	Natural convection – No fans
Features	
Communication with cloud	2.4 GHz Wi-Fi
Communication with local app	BLE
Topology	Galvanically Isolated HF Transformer
Monitoring	S-Miles Cloud (Hoymiles Monitoring Platform)
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.
**: Refer to local requirements for exact number of microinverters per branch.

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