



Microinverter Datasheet

HMS-1600-4WB
HMS-1800-4WB
HMS-2000-4WB

Description

The HiFlow Pro 4-in-1 series microinverter is designed for mini solar systems. It features a built-in Wi-Fi & Bluetooth communication module and can deliver output power up to 2000 VA.

Each microinverter can connect up to four panels, maximizing power production and reducing costs. With the plug-and-play Flex-S3 Cable System, installation is hassle-free and can be done in minutes without complicated wiring.

Additionally, the new S-Miles Home App makes it easy to customize your smart home solar system.

Features

- 01
Plug-and-play design for balcony solar systems
- 04
Works with the S-Miles Home app to customize your smart home solar system
- 02
Built-in Wi-Fi & Bluetooth module ensures wireless security and reliability
- 05
Meets ETSI EN 303 645 cybersecurity standards for enhanced privacy protection
- 03
Supports cloud-based or local solar system configurations
- 06
Enhanced safety by using rapid shutdown compliance and an isolated transformer

Technical Specifications

Model	HMS-1600-4WB	HMS-1800-4WB	HMS-2000-4WB
Input Data (DC)			
Commonly used module power (W)	320 to 540+	360 to 600+	400 to 670+
Maximum input voltage (V)	65		
MPPT voltage range (V)	16 to 60		
Min./Max. start voltage (V)	22/60		
Maximum input current (A)	4 × 14	4 × 15	4 × 16
Maximum input short circuit current (A)	4 × 25		
Number of MPPTs	4		
Number of inputs per MPPT	1		
Output Data (AC)			
Rated output power (VA)	1600	1800	2000
Rated output current (A)	6.96	7.83	8.70
Nominal output voltage/range (V)*	230/180 to 275		
Nominal frequency/range (Hz)*	50/45 to 55		
Adjustable power factor (@Rated power)	>0.99 default 0.8 leading ... 0.8 lagging		
Total harmonic distortion (@Rated 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%	96.50%	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])	331 × 218 × 40.6		
Weight (kg)	5.6		
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.