Hoymiles

HOYMILES PRODUCT BROCHURE



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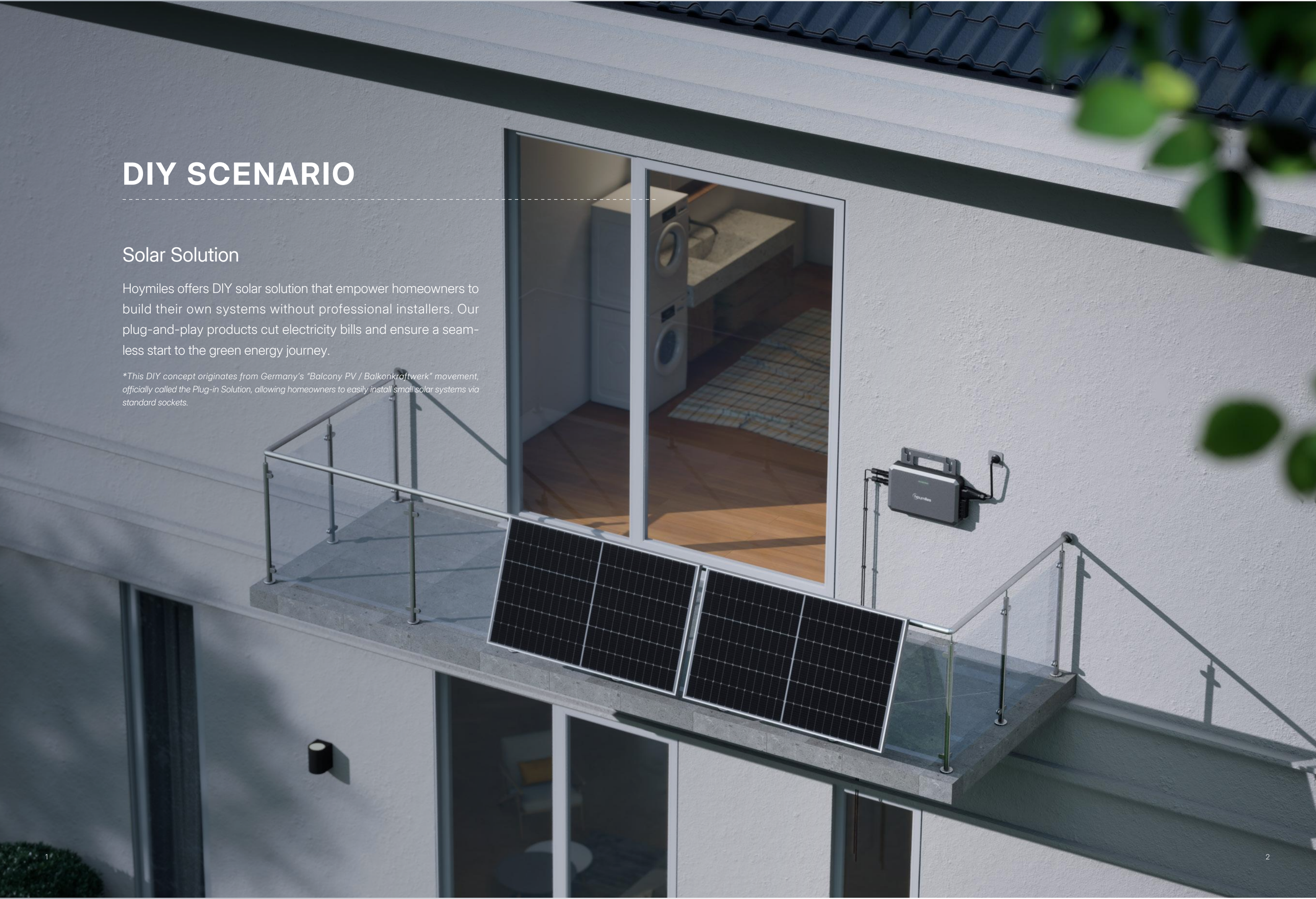
DIY SCENARIO

Solar Solution

Hoymiles offers DIY solar solution that empower homeowners to build their own systems without professional installers. Our plug-and-play products cut electricity bills and ensure a seamless start to the green energy journey.

**This DIY concept originates from Germany's "Balcony PV / Balkonkraftwerk" movement, officially called the Plug-in Solution, allowing homeowners to easily install small solar systems via standard sockets.*



SOLUTION HIGHLIGHTS

High Efficiency, Maximum Yield

Up to 99.8% MPPT efficiency and low startup voltage for maximum solar harvest.

Safe & Reliable

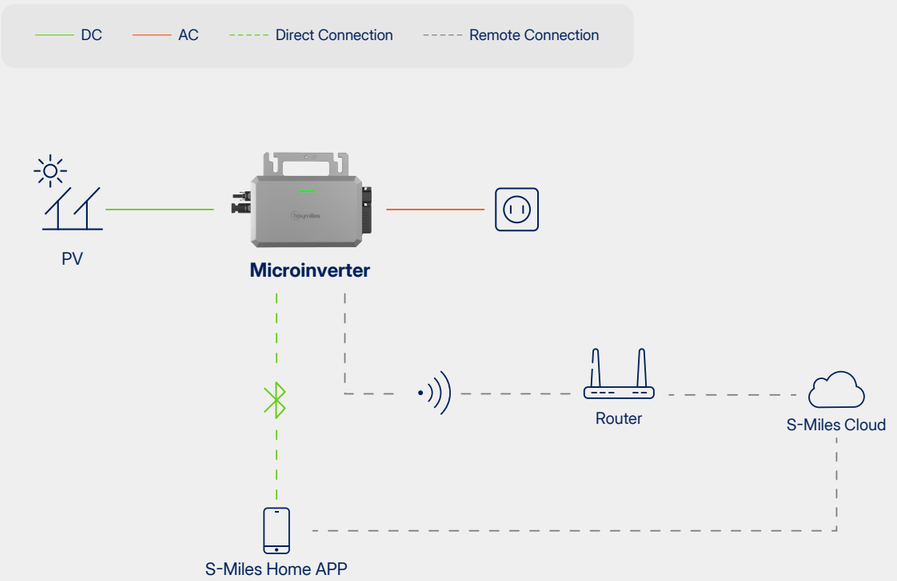
IP67 protection with 34V/1s safe cutoff ensures stable, worry-free operation.

Easy Setup & Effortless Control

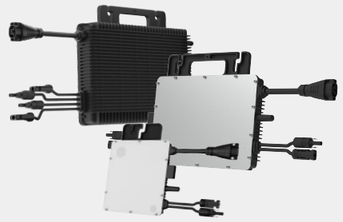
Plug & Play installation with Wi-Fi + Bluetooth modules makes setup and operation seamless.

Smart Export Control

Compatible with mainstream smart meters for true zero export and efficient energy flow.



What Hoymiles Offers



MICROINVERTER
(0.3-2KW, WI-FI & BLUETOOTH INTEGRATED)



MICROINVERTER
(800W, WI-FI & BLUETOOTH INTEGRATED)

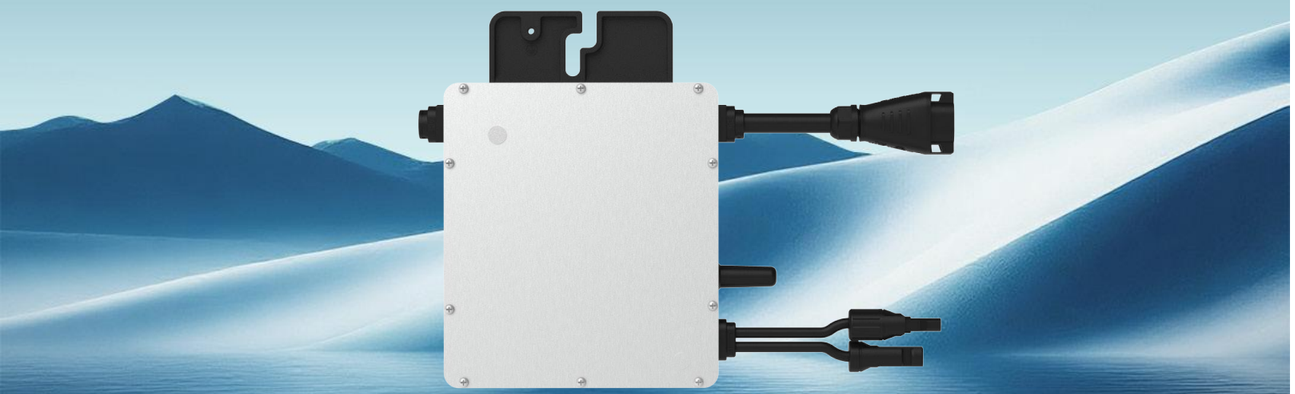


MONITORING APP

MICROINVERTER | HMS-W SERIES

Hoymiles HMS-500W-1T series microinverters are specially designed for small solar systems in open spaces like balconies. They come with a built-in industrial-grade Wi-Fi module and provide up to 500 VA of output power. With the user-friendly Flex-S3 Plug and Play Cable-CEE7/7, installation is effortless for users of all levels. You can connect the microinverter directly to a socket without complicated wiring. For monitoring, the HMS-500W-1T series offers two easy options: real-time monitoring with Direct Connection or remote control through the S-Miles Cloud platform.

0.3-0.5kW | Single Phase | Wi-Fi integrated



Features

01 Plug-and-play design for balcony solar systems

02 Built-in industrial+ grade Wi-Fi module for high reliability

03 Enhanced safety with rapid shutdown compliance and isolated transformer

04 1-in-1 design to suit versatile installation scenarios

05 Output power setting function to customize performance

06 Two options for monitoring and management: Direct Connection and S-Miles Cloud

Technical Specifications

Model	HMS-300W-1T	HMS-350W-1T	HMS-400W-1T	HMS-450W-1T	HMS-500W-1T
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				
Number of microinverters per 2.5 mm^2 line**	19	16	14	12	11
Total harmonic distortion (@nominal power)	< 3%				
Flex-S3 Plug and Play Cable-CEE7/7 (Optional)					
Connector type	Flex-S3 Field Connector				
Cable size	1.5 mm^2				
Cable length	5 m (Customizable)				
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)	1.75				
Enclosure rating	Outdoor - IP67				
Cooling	Natural convection – No fans				
Featu res					
Communication	Built-in Wi-Fi				
Topology	Galvanically Isolated HF Transformer				
Monitoring	Toolkit or S-Miles Cloud				
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 the exact number of microinverters per AC output line.

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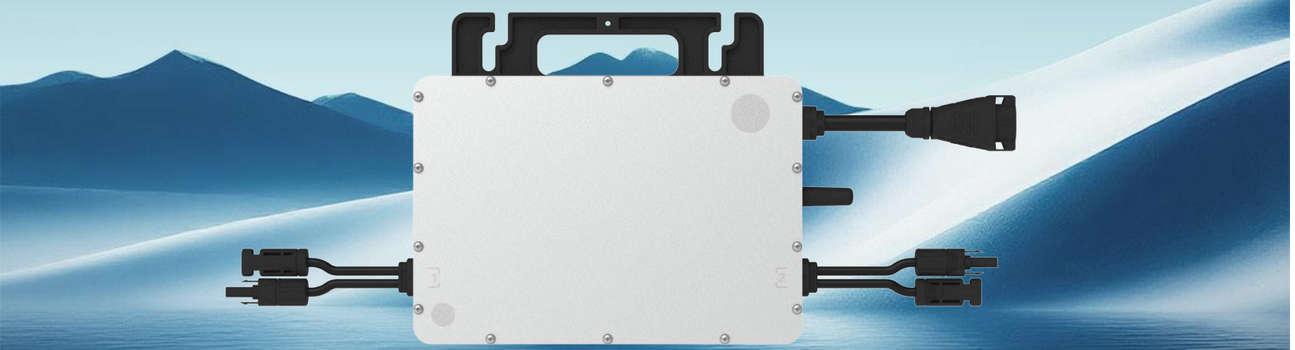
MICROINVERTER | HMS-W SERIES

Hoymiles HMS-1000W-2T series microinverters are specifically designed for mini PV systems, such as balcony systems, and feature an integrated industrial+ grade Wi-Fi module. With the user-friendly Flex-S3 Plug and Play Cable-CEE7/7, installation is simple—just connect the microinverter directly to a socket with no need for complicated wiring. Monitoring the system is easy with the HMS-1000W-2T series. You can access real-time production data directly on your smartphone, or set up remote monitoring through the S-Miles Cloud by creating PV plants.

0.6-1kW | Single Phase | Wi-Fi integrated



Features

01 Plug-and-play design for balcony solar systems

02 Built-in industrial+ grade Wi-Fi module for high reliability

03 Compatible with Micro Toolkit or S-Miles Cloud for monitoring and management

04 Enhanced safety with rapid shutdown compliance and isolated transformer

05 Output power setting function to customize performance

06 High-powered microinverter with up to 1000 VA output

Technical Specifications

Model	HMS-600W-2T	HMS-700W-2T	HMS-800W-2T	HMS-900W-2T	HMS-1000W-2T
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)	16-60				
Min./Max. start voltage (V)	22/60				
Maximum input current (A)	2 × 12	2 × 13	2 × 14	2 × 15	2 × 16
Maximum input short circuit current (A)	2 × 20	2 × 20	2 × 25	2 × 25	2 × 25
Number of MPPTs	2				
Number of inputs per MPPT	1				
Output Data (AC)					
Rated output power (VA)	600	700	800	900	1000
Rated output current (A)	2.61	3.04	3.48	3.91	4.35
Nominal output voltage/range (V)*	230/180-275				
Nominal frequency/range (Hz)*	50/45-55				
Power factor (@nominal power)	>0.99 default 0.8 leading ... 0.8 lagging				
Number of microinverters per line 2.5 mm^2	9	8	7	6	5
Total harmonic distortion (@nominal power)	< 3%				
Flex-S3 Plug and Play Cable-CEE7/7 (Optional)					
Connector type	Flex-S3 Field Connector				
Cable size	1.5 mm^2				
Cable length	3 m (Customizable)				
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])	261 × 180 × 35.1				
Weight (kg)	3.2				
Enclosure rating	Outdoor-IP67				
Cooling	Natu ral convection – No fans				
Featu res					
Communication	Built-in Wi-Fi				
Topology	Galvanically Isolated HF Transformer				
Monitoring	Micro Toolkit or S-Miles Cloud				
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				

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MICROINVERTER | HIFLOW

The HF-800-WB microinverter provides a cost-effective solution for residential PV systems. It is lighter and 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.

0.8kW | Single Phase | Wi-Fi & Bluetooth integrated



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 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

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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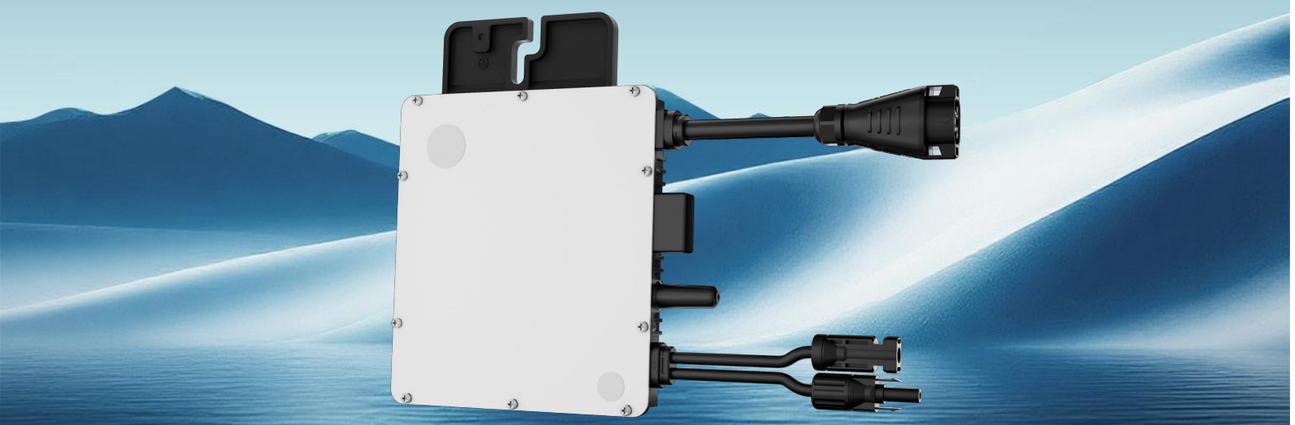
MICROINVERTER | HIFLOW PRO SERIES

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.

0.3-0.5kW | Single Phase | Wi-Fi & Bluetooth integrated



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

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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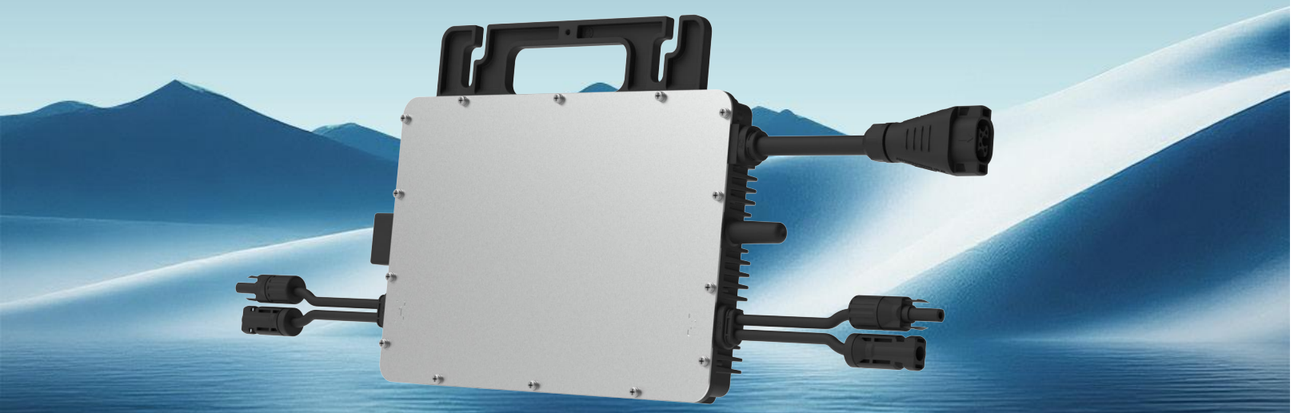
MICROINVERTER | HIFLOW PRO SERIES

The HiFlow Pro 2-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 1000 VA. Pairing perfectly with the Flex-S3 Cable System, the HiFlow Pro 2-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.

0.6-1.0kW | Single Phase | Wi-Fi & Bluetooth integrated



Features

01 Plug-and-play design for balcony solar systems

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

Technical Specifications

Model	HMS-600-2WB	HMS-700-2WB	HMS-800-2WB	HMS-900-2WB	HMS-1000-2WB
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)	2 × 12	2 × 13	2 × 14	2 × 15	2 × 16
Maximum input short circuit current (A)	2 × 20	2 × 20	2 × 25	2 × 25	2 × 25
Number of MPPTs	2				
Number of inputs per MPPT	1				
Output Data (AC)					
Rated output power (VA)	600	700	800	900	1000
Rated output current (A)	2.61	3.04	3.48	3.91	4.35
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])	261 × 180 × 35.1				
Weight (kg)	3.2				
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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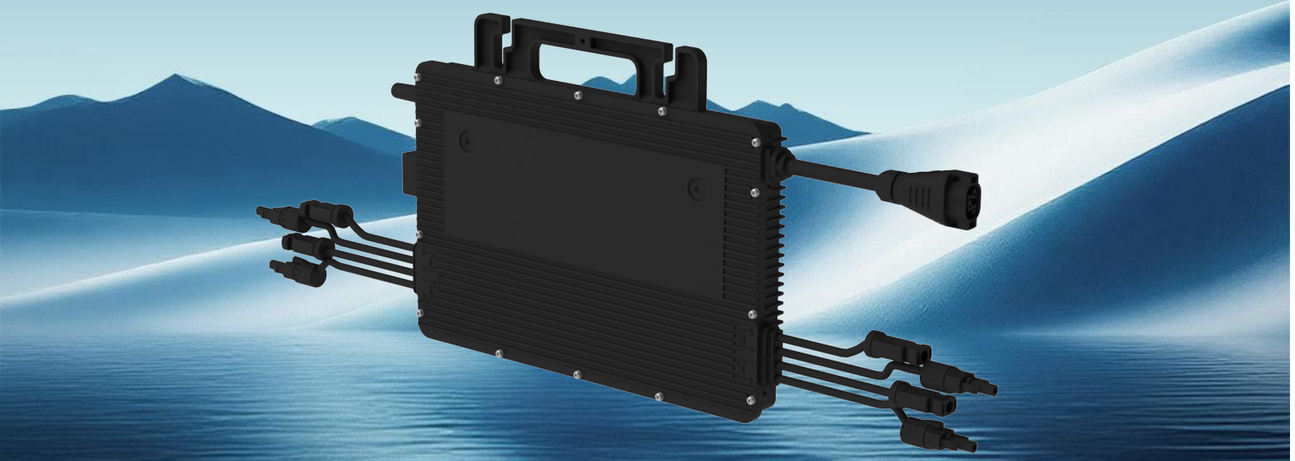
MICROINVERTER | HIFLOW PRO SERIES

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.

1.6-2.0kW | Single Phase | Wi-Fi & Bluetooth integrated



Features

01 Plug-and-play design for balcony solar systems

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

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 (@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%	96.50%	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.

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DIY SCENARIO

Solar & Storage Solution

Hoymiles brings a flexible solar & storage setup for balcony. The smart meter works seamlessly with micro storage to enable self-consumption and optimized energy use. It intelligently manages charging and discharging based on tariffs and usage patterns—making green energy smarter and more rewarding.

**This DIY concept originates from Germany' s "Balcony PV / Balkonkraftwerk" movement, officially called the Plug-in Solution, allowing homeowners to easily install small solar systems via standard sockets.*



SOLUTION HIGHLIGHTS

Plug & Play Anywhere

Simply plug in to any standard Schuko socket—no rewiring, no placement limits.

Safe & Reliable

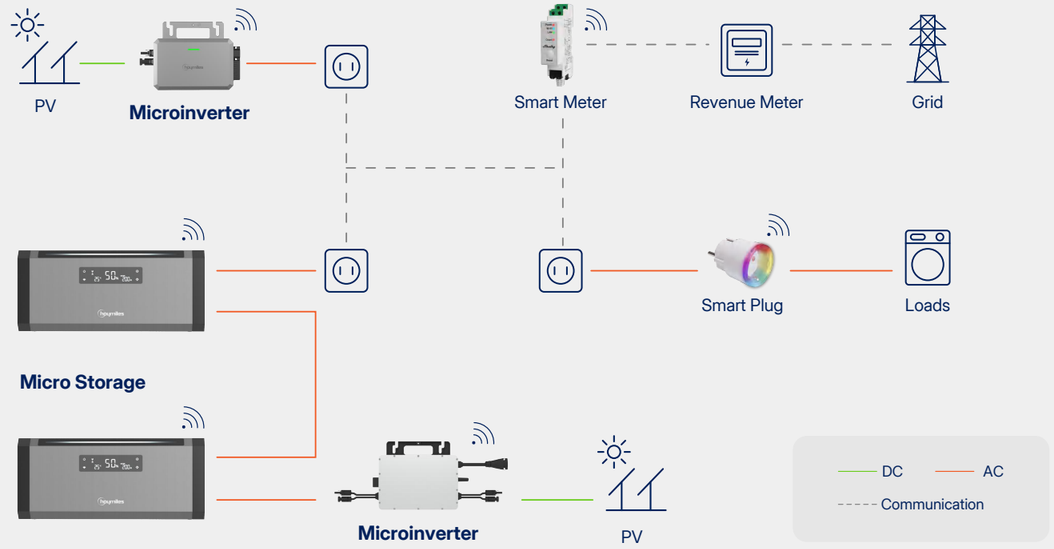
Automotive-grade LFP cells with 48-layer BMS protection

Smart Savings with TOU

Leverage dynamic tariff to optimize charge and discharge plans and maximize returns.

Best-in-Class Efficiency

Up to 96.5% bidirectional DC/AC efficiency and 86% round-trip efficiency.



What Hoymiles Offers



MICRO STORAGE



MICROINVERTER
(800W, WI-FI & BLUETOOTH INTEGRATED)



MICROINVERTER
(0.3-2KW, WI-FI & BLUETOOTH INTEGRATED)



MONITORING APP

MICRO STORAGE | HIBATTERY AC

The HiBattery AC is the micro storage system designed specifically for balcony solar scenarios. With its compact size of 0.02 m³ and plug-and-play setup, it can be positioned and installed anywhere in minutes. What's more, its AC coupling technology enables seamless connection to a microinverter or any home socket, making integration effortless. Bidirectional charging and discharging technology supports self-consumption mode, AI-integrated TOU mode, etc. It maximizes profits through intelligent energy management.

1.92kWh | AC-Coupled | Plug-and-Play



Features

01 Safety and Reliability

- Top-tier battery cells with >6000 cycles, ensuring long-term and reliable power output
- Built-in self-heating for low temperature environments
- High efficiency and low heat generation, natural cooling & fanless design, noise <17 dB(A)
- Internal fire extinguisher and pressure relief valves, providing comprehensive battery protection
- IP66 waterproof and dustproof

02 Easy Installation

- Flexible placement and plug & play connection: Plug into any socket without modifying your existing solar system

03 Cost Savings

- Supports multiple charge/discharge modes, such as self-consumption mode and TOU mode
- 96.5% highest bidirectional efficiency, 86% highest round-trip efficiency, fully utilizing electrical energy

Technical Specifications

Model	HB-1920-AC-SV
AC Output (On-Grid Port)	
Nominal output apparent power (VA)	800
Maximum output apparent power (VA)	800 [1]
Grid type	Single-phase
Nominal AC voltage/range (V)	230/180 to 270 [2]
Nominal AC frequency/range (Hz)	50/45 to 55 [2]
Nominal output current (A)	3.48
Maximum output current (A)	3.48 [3]
Adjustable power factor (@nominal load)	>0.99 0.8 leading ... 0.8 lagging
AC Input and Output (Off-Grid Port)	
Maximum output apparent power (VA)	800
Peak output apparent power (VA)	1200, 10 s
Grid type	Single-phase
Connector type	Schuko socket
Nominal AC voltage (V)	230
Nominal AC frequency (Hz)	50
Maximum output current (A)	3.48
Total harmonic distortion (@linear load)	<3%
Maximum input power (VA)	1800
Maximum input current (A)	7.83
Battery	
Capacity (kWh)	1.92
Cell type	LiFePO4
Life cycles	≥6000
Charging temperature (°C)	-20 to 55
Discharging temperature (°C)	-20 to 55
Nominal apparent power (VA)	1000 (charge and discharge)
Maximum apparent power (VA)	1000 (charge and discharge)
General	
Weight (kg)	24
Dimensions (L× W × H [mm])	460 × 240 × 203
Protection degree	IP66
Mounting	Wall-mounted or floor-mounted (sold separately)
Cooling	Natural convection – No fans
Wireless type	Bluetooth, 2.4 GHz Wi-Fi
Interface	LED & App
Warranty	10 years
Standards	
Grid compliance	VDE-AR-N 4105: 2018
Safety	IEC 62477-1, IEC 62619, IEC 63056, UN 38.3
EMC	EN 61000-6-1/-2/-3/-4, EN 61000-3-2/-3

[1] It can be customized by using the S-Miles Home App and can be adjusted up to 2000 VA.
[2] The nominal voltage/frequency range may vary based on local requirements.
[3] It is the ratio of maximum output apparent power to nominal AC voltage.

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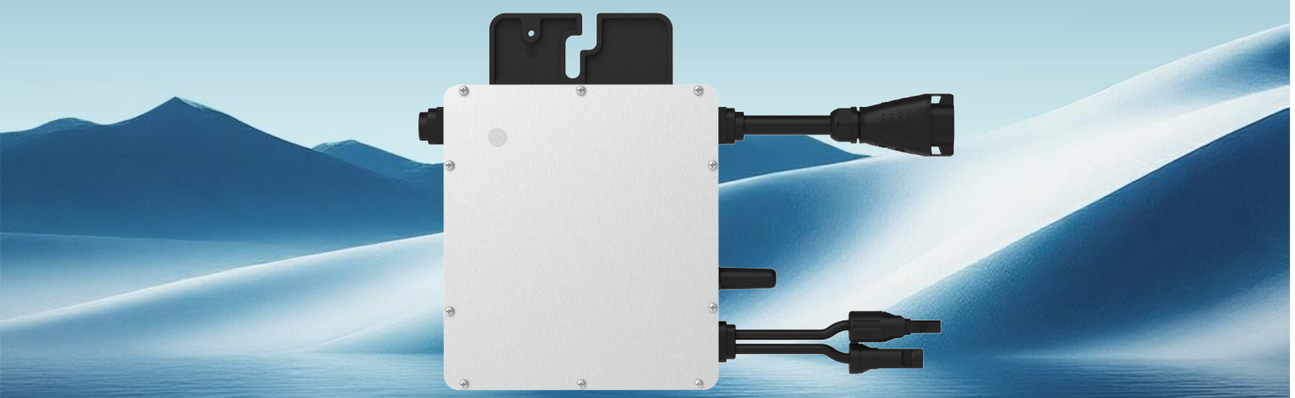
MICROINVERTER | HMS-W SERIES

Hoymiles HMS-500W-1T series microinverters are specially designed for small solar systems in open spaces like balconies. They come with a built-in industrial-grade Wi-Fi module and provide up to 500 VA of output power. With the user-friendly Flex-S3 Plug and Play Cable-CEE7/7, installation is effortless for users of all levels. You can connect the microinverter directly to a socket without complicated wiring. For monitoring, the HMS-500W-1T series offers two easy options: real-time monitoring with Direct Connection or remote control through the S-Miles Cloud platform.

0.3-0.5kW | Single Phase | Wi-Fi integrated



Features

01 Plug-and-play design for balcony solar systems

02 Built-in industrial+ grade Wi-Fi module for high reliability

03 Enhanced safety with rapid shutdown compliance and isolated transformer

04 1-in-1 design to suit versatile installation scenarios

05 Output power setting function to customize performance

06 Two options for monitoring and management: Direct Connection and S-Miles Cloud

Technical Specifications

Model	HMS-300-1T	HMS-350-1T	HMS-400-1T	HMS-450-1T	HMS-500-1T
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 -60				
Start-up voltage (V)	22				
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)*	230/180–275				
Nominal frequency/range (Hz)*	50/45-55				
Adjustable power factor (@nominal power)	> 0.99 default 0.8 leading ... 0.8 lagging				
Total harmonic distortion (@nominal power)	< 3%				
Maximum units per 2.5 mm² branch**	19	16	14	12	11
Maximum units per 4 mm² branch**	26	22	19	17	15
Maximum units per 6 mm² branch**	30	26	23	20	18
Efficiency					
Peak efficiency	96.7%	96.7%	96.7%	96.5%	96.5%
Nominal MPPT efficiency	99.8%				
Night power consumption (mW)	< 50				
Mechanical Data					
Ambient temperature range (°C)	-40 to +65				
Dimensions (W × H × D [mm])	182 × 164 × 30				
Weight (kg)	1.75				
Enclosure rating	Outdoor-IP67				
Cooling	Natural convection-No fans				
Features					
Communication	Sub-1G				
Type of isolation	Galvanically Isolated HF Transformer				
Monitoring	S-Miles Cloud (Hoymiles Monitoring Platform)				
Compliance	EN 50549-1: 2019, VDE-AR-N 4105: 2018, VFR2019, 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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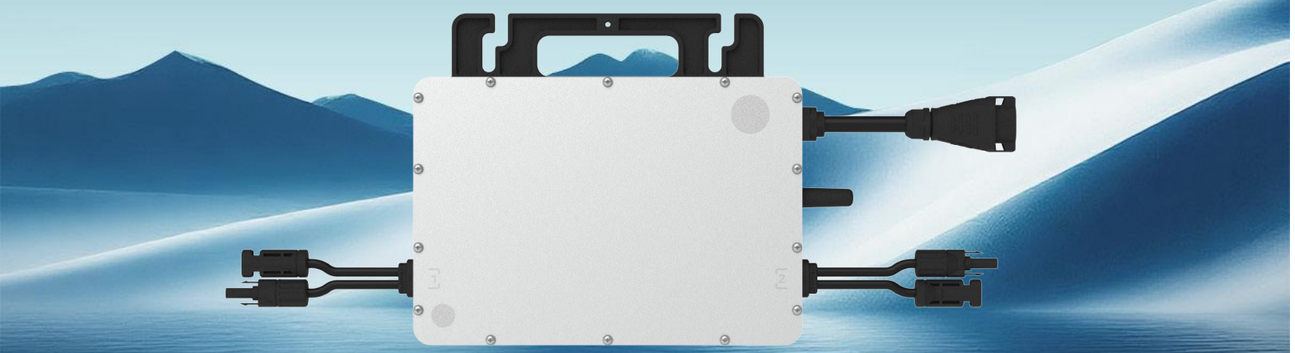
MICROINVERTER | HMS-W SERIES

Hoymiles HMS-1000W-2T series microinverters are specifically designed for mini PV systems, such as balcony systems, and feature an integrated industrial+ grade Wi-Fi module. With the user-friendly Flex-S3 Plug and Play Cable-CEE7/7, installation is simple—just connect the microinverter directly to a socket with no need for complicated wiring. Monitoring the system is easy with the HMS-1000W-2T series. You can access real-time production data directly on your smartphone, or set up remote monitoring through the S-Miles Cloud by creating PV plants.

0.6-1kW | Single Phase | Wi-Fi integrated



Features

01 Plug-and-play design for balcony solar systems

02 Built-in industrial+ grade Wi-Fi module for high reliability

03 Compatible with Micro Toolkit or S-Miles Cloud for monitoring and management

04 Enhanced safety with rapid shutdown compliance and isolated transformer

05 Output power setting function to customize performance

06 High-powered microinverter with up to 1000 VA output

Technical Specifications

Model	HMS-600-2T	HMS-700-2T	HMS-800-2T	HMS-900-2T	HMS-1000-2T
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 -60				
Start-up voltage (V)	22				
Maximum input current (A)	2 × 12	2 × 13	2 × 14	2 × 15	2 × 16
Maximum input short circuit current (A)	2 × 20	2 × 20	2 × 25	2 × 25	2 × 25
Number of MPPTs	2				
Number of inputs per MPPT	1				
Output Data (AC)					
Rated output power (VA)	600	700	800	900	1000
Rated output current (A)	2.61	3.04	3.48	3.91	4.35
Nominal output voltage/range (V) *	230/180–275				
Nominal frequency/range (Hz) *	50/45–55				
Adjustable power factor (@nominal power)	> 0.99 default 0.8 leading ... 0.8 lagging				
Total harmonic distortion (@nominal power)	< 3%				
Maximum units per 2.5 mm² branch **	9	8	7	6	5
Maximum units per 4 mm² branch **	13	11	9	8	7
Maximum units per 6 mm² branch **	15	13	11	10	9
Efficiency					
Peak efficiency	96.7%	96.7%	96.7%	96.5%	96.5%
Nominal MPPT efficiency	99.8%				
Night power consumption (mW)	< 50				
Mechanical Data					
Ambient temperature range (°C)	-40 to +65				
Dimensions (W × H × D [mm])	261 × 180 × 35.1				
Weight (kg)	3.2				
Enclosure rating	Outdoor-IP67				
Cooling	Natural convection-No fans				
Features					
Communication	Sub-1G				
Type of isolation	Galvanically Isolated HF Transformer				
Monitoring	S-Miles Cloud (Hoymiles Monitoring Platform)				
Compliance	EN 50549-1: 2019, VDE-AR-N 4105: 2018, VFR2019, 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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MICROINVERTER | HIFLOW

The HF-800-WB microinverter provides a cost-effective solution for residential PV systems. It is lighter and 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.

0.8kW | Single Phase | Wi-Fi & Bluetooth integrated



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 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

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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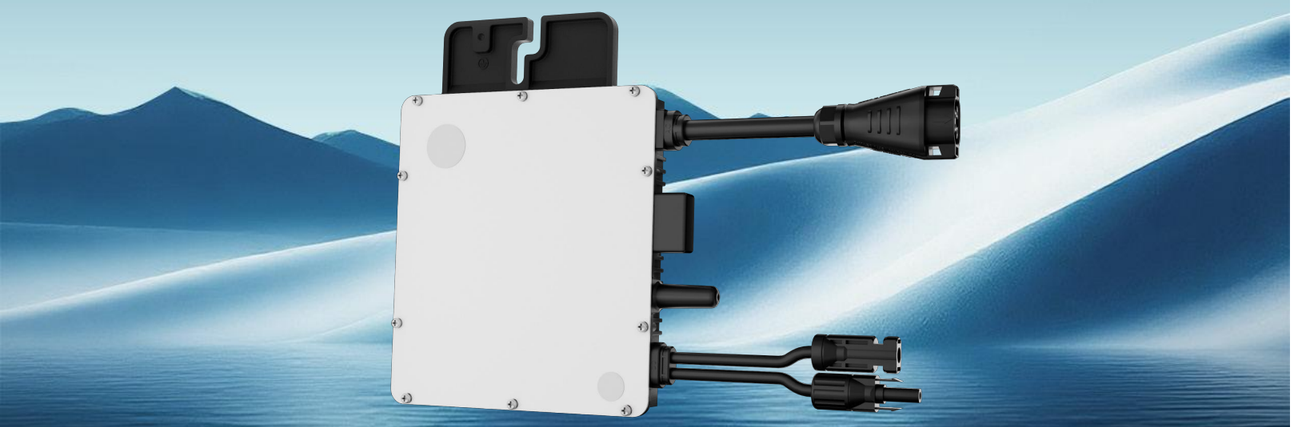
MICROINVERTER | HIFLOW PRO SERIES

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.

0.3-0.5kW | Single Phase | Wi-Fi & Bluetooth integrated



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

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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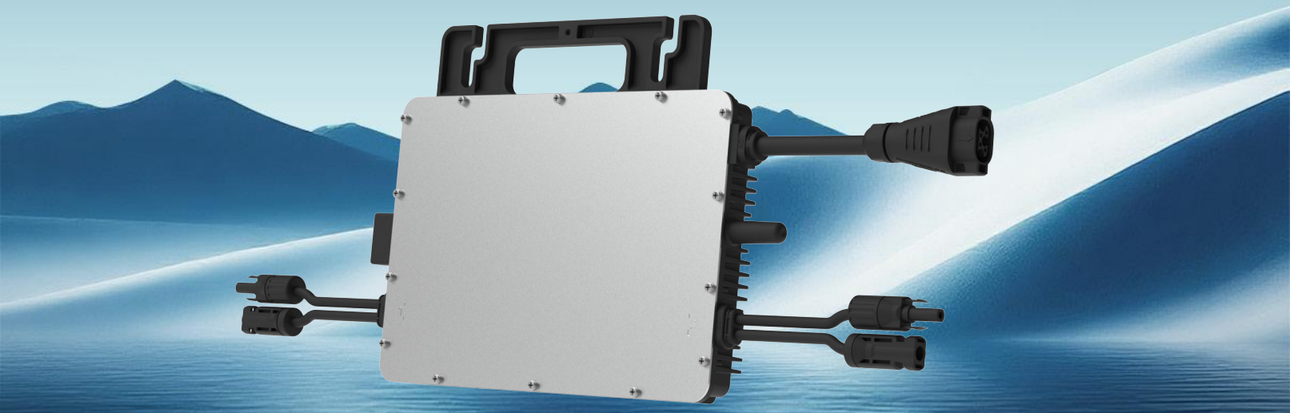
MICROINVERTER | HIFLOW PRO SERIES

The HiFlow Pro 2-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 1000 VA. Pairing perfectly with the Flex-S3 Cable System, the HiFlow Pro 2-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.

0.6-1.0kW | Single Phase | Wi-Fi & Bluetooth integrated



Features

01 Plug-and-play design for balcony solar systems

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

Technical Specifications

Model	HMS-600-2WB	HMS-700-2WB	HMS-800-2WB	HMS-900-2WB	HMS-1000-2WB
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)	2 × 12	2 × 13	2 × 14	2 × 15	2 × 16
Maximum input short circuit current (A)	2 × 20	2 × 20	2 × 25	2 × 25	2 × 25
Number of MPPTs	2				
Number of inputs per MPPT	1				
Output Data (AC)					
Rated output power (VA)	600	700	800	900	1000
Rated output current (A)	2.61	3.04	3.48	3.91	4.35
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])	261 × 180 × 35.1				
Weight (kg)	3.2				
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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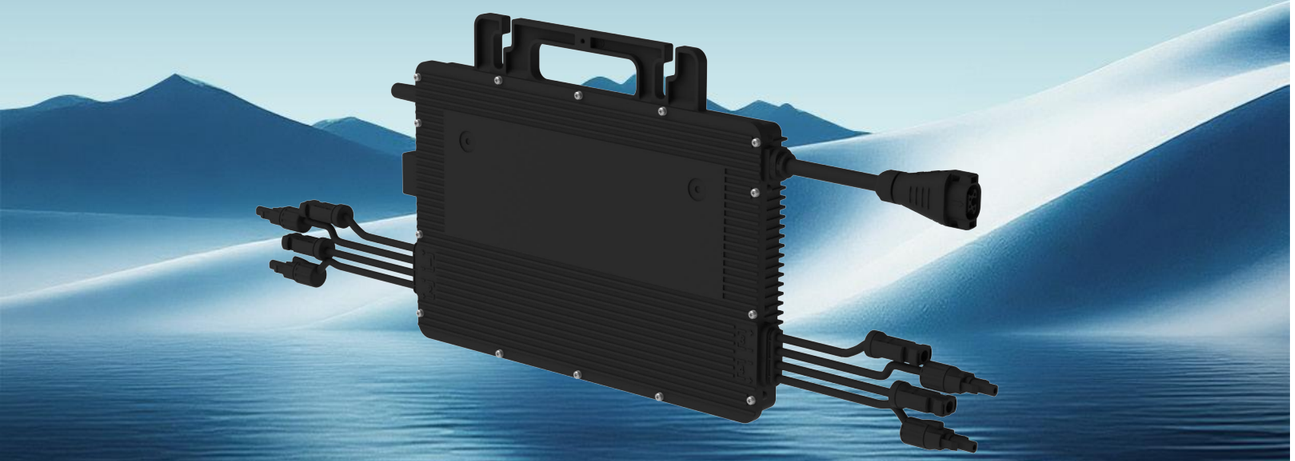
MICROINVERTER | HIFLOW PRO SERIES

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.

1.6-2.0kW | Single Phase | Wi-Fi & Bluetooth integrated



Features

01 Plug-and-play design for balcony solar systems

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

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 (@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%	96.50%	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.

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S-Miles Home

· Module level monitoring

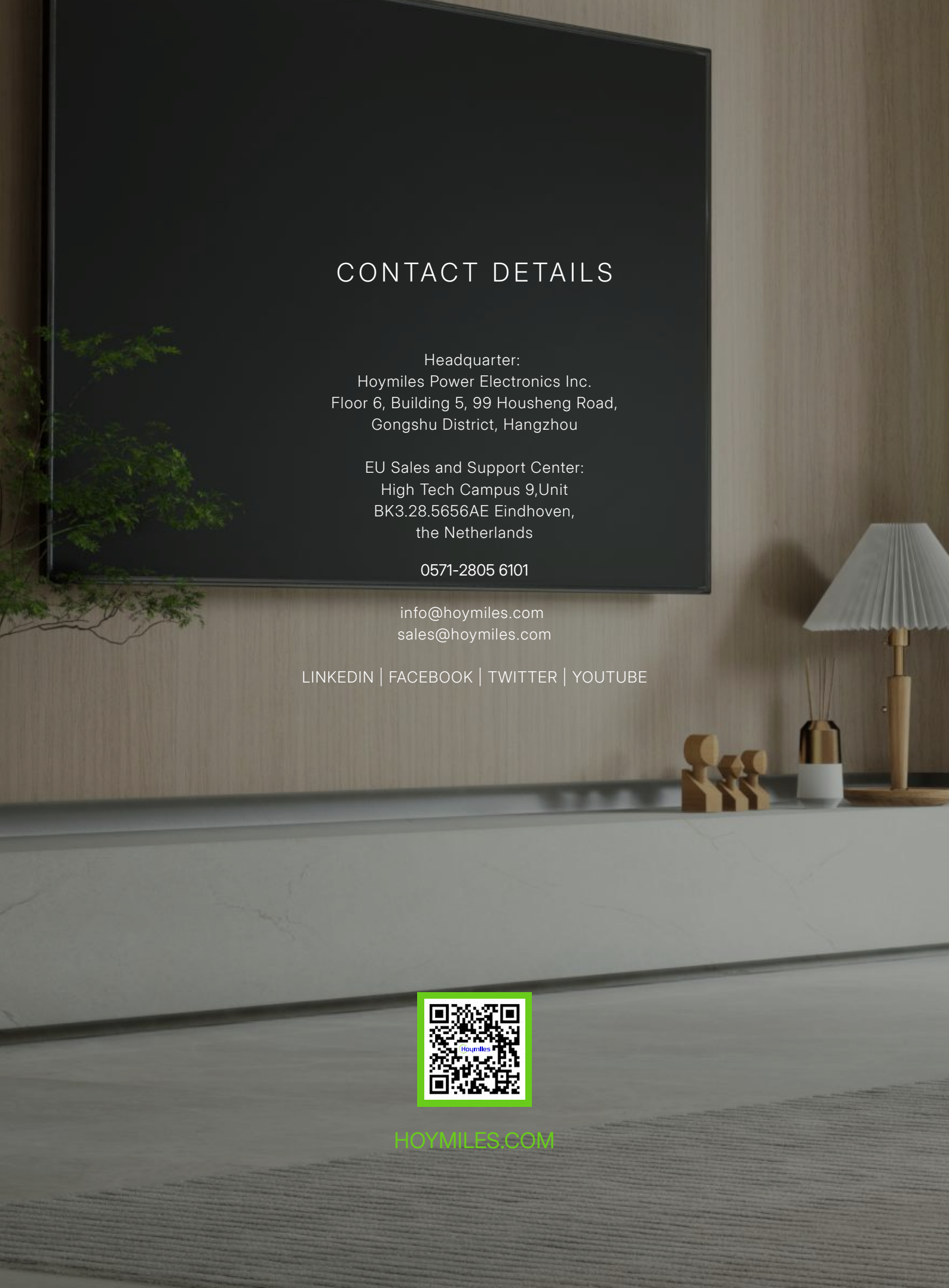
· Real-Time Power Flow

· Comprehensive Energy Tracking

Available:

☑ APP- Android / IOS





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