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HOYMILES.COM

HOYMILES PRODUCT BROCHURE

FOR EUROPE

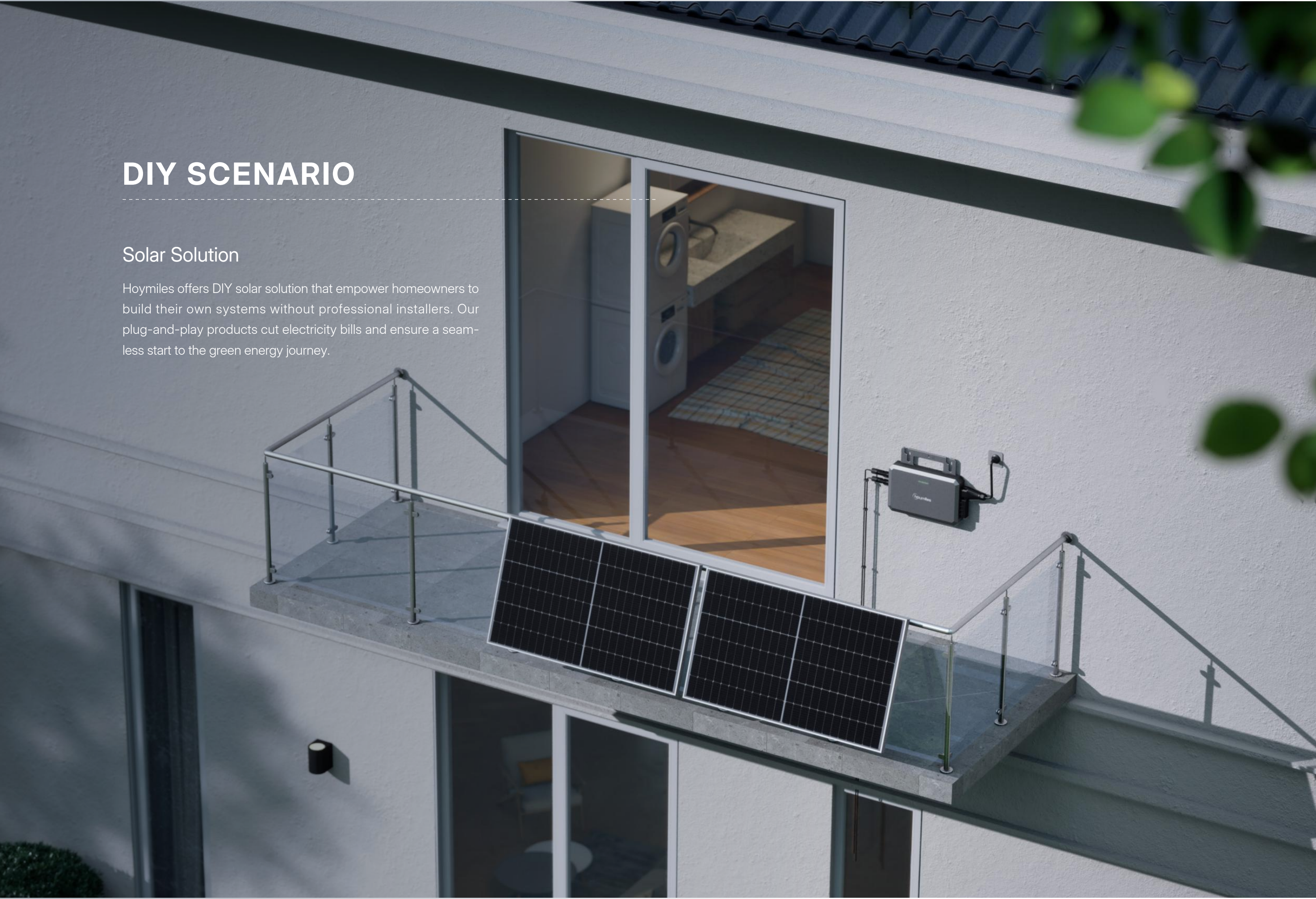
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DIY SCENARIO

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.



SOLUTION HIGHLIGHTS

High Efficiency, Maximum Yield

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

Safe & Reliable

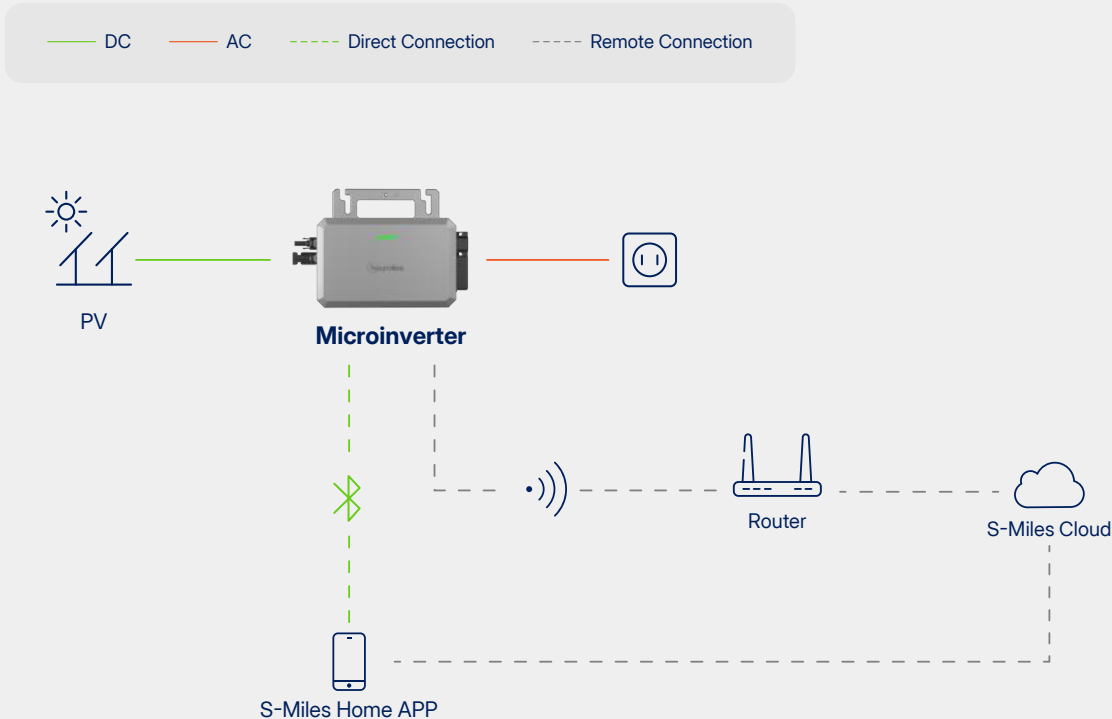
IP67 protection with 34V/1s safe cutoff ensures stable, worry-free operation.

Easy Setup & Effortless Control

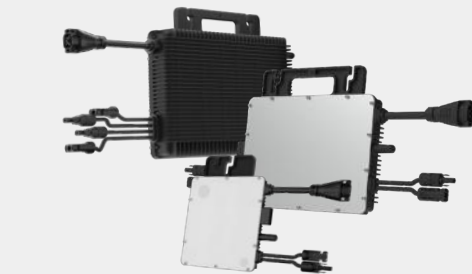
Plug & Play installation with Wi-Fi + Bluetooth modules makes setup and operation seamless.

Smart Export Control

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



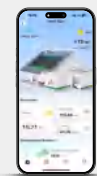
What Hoymiles Offers



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



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

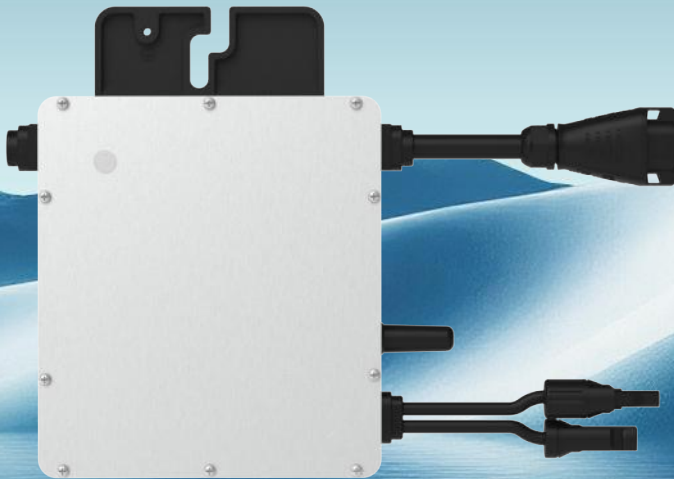


MONITORING APP

SINGLE-PHASE MICROINVERTER

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.

HMS-(300-500)W-1T



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 mm² 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				
Features					
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.

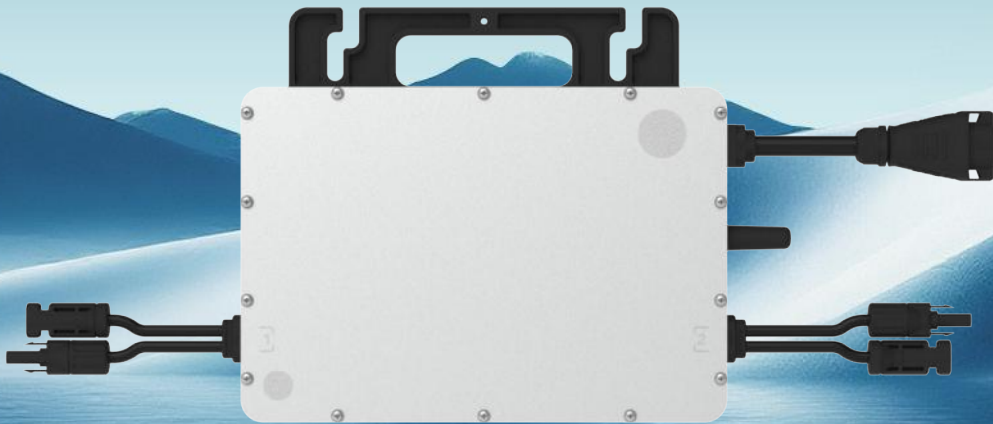
MICROINVERTER | HMS-W SERIES

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 mm²	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	Natural convection – No fans				
Features					
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				

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.

HF-800-WB



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

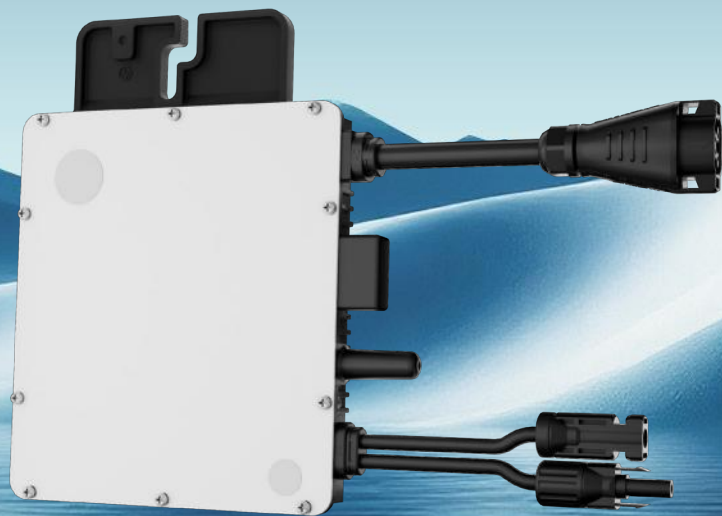
Model	HF-800-WB
Input Data (DC)	
Commonly used module power (W)	320 to 520+
Maximum input voltage (V)	100
MPPT voltage range (V)	16 to 96
Peak MPPT voltage range (V)	54 to 80
Min./Max. start voltage (V)	22/96
Maximum input current (A)	16
Maximum input short circuit current (A)	25
Peak short-circuit current (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 (mm²)	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)	21
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.

HIFLOW PRO

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.

HMS-(300-500)-1WB



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

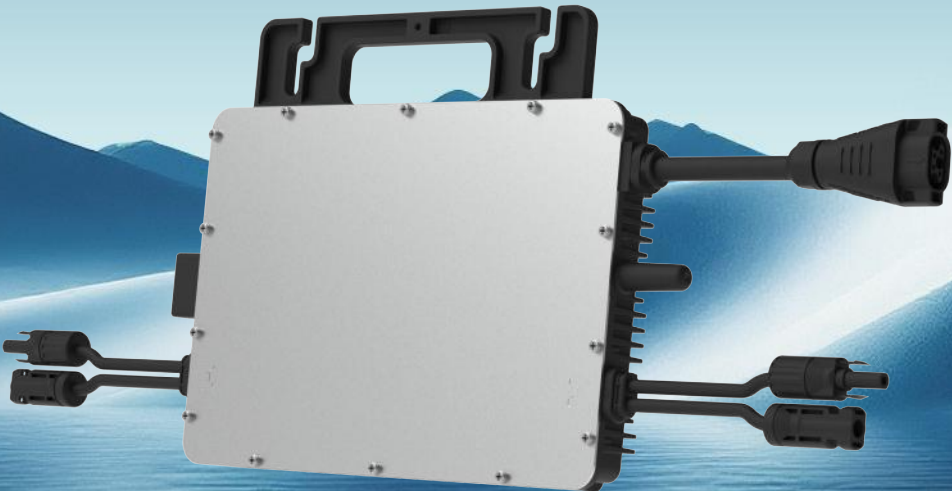
Model	HMS-300-1WB	HMS-350-1WB	HMS-400-1WB	HMS-450-1WB	HMS-500-1WB
Input Data (DC)					
Commonly used module power (W)	240 to 405+	280 to 470+	320 to 540+	360 to 600+	400 to 670+
Maximum input voltage (V)	60	60	65	65	65
MPPT voltage range (V)	16 to 60				
Min./Max. start voltage (V)	22/60				
Maximum 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 (mm²)	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.

HIFLOW PRO

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.

HMS-(600-1000)-2WB



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 (mm²)	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.

HIFLOW PRO

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.

HMS-(1600-2000)-4WB



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.

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.



SOLUTION HIGHLIGHTS

Plug & Play Anywhere

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

Safe & Reliable

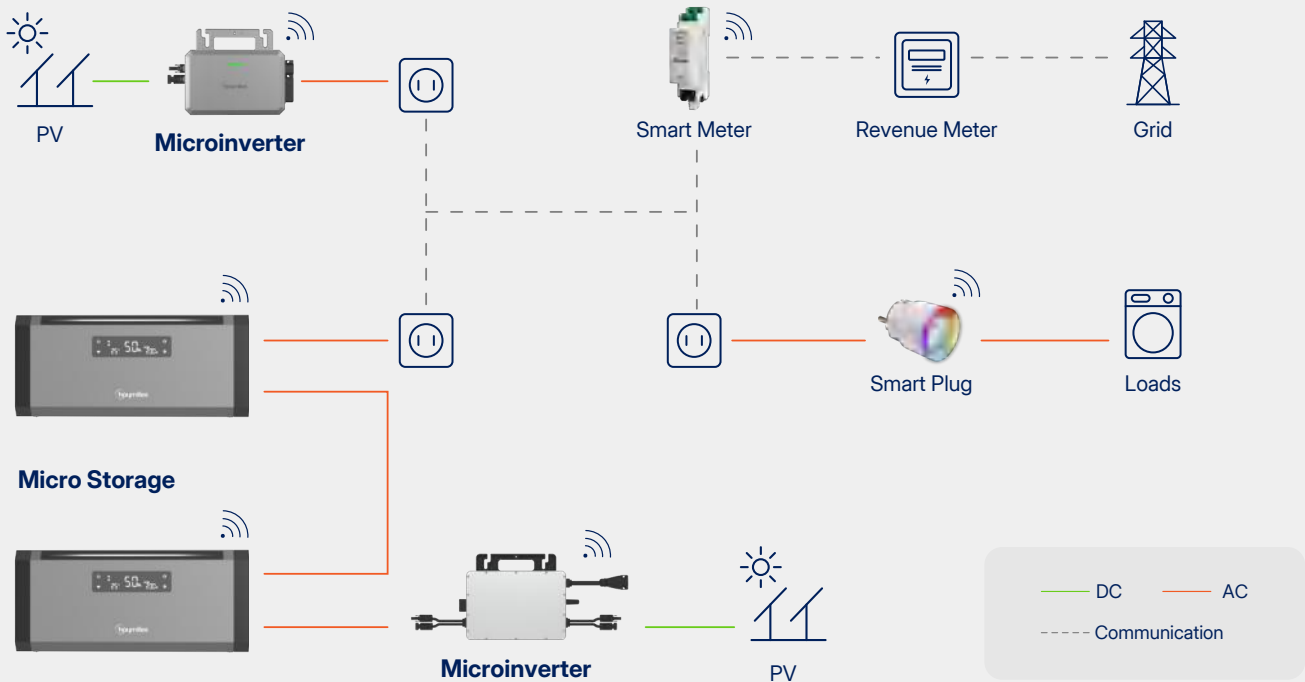
Automotive-grade LFP cells with 48-layer BMS protection

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

HIBATTERY

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.

HB-1920-AC-SV



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, 87% highest round-trip efficiency, fully utilizing electrical energy

Technical Specifications

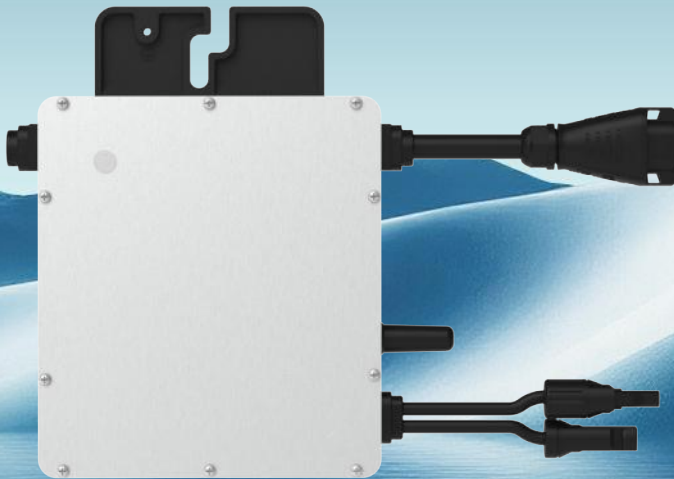
Model	HB-1920-AC-SV
AC Output (On-Grid Port)	
Nominal output apparent power (VA)	800
Maximum output apparent power (VA)	800 ^[1]
Grid type	Single-phase
Nominal AC voltage/range (V)	230/180 to 270 ^[2]
Nominal AC frequency/range (Hz)	50/45 to 55 ^[2]
Nominal output current (A)	3.48
Maximum output current (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 x W x H [mm])	460 x 240 x 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.

SINGLE-PHASE MICROINVERTER

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.

HMS-(300-500)W-1T



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

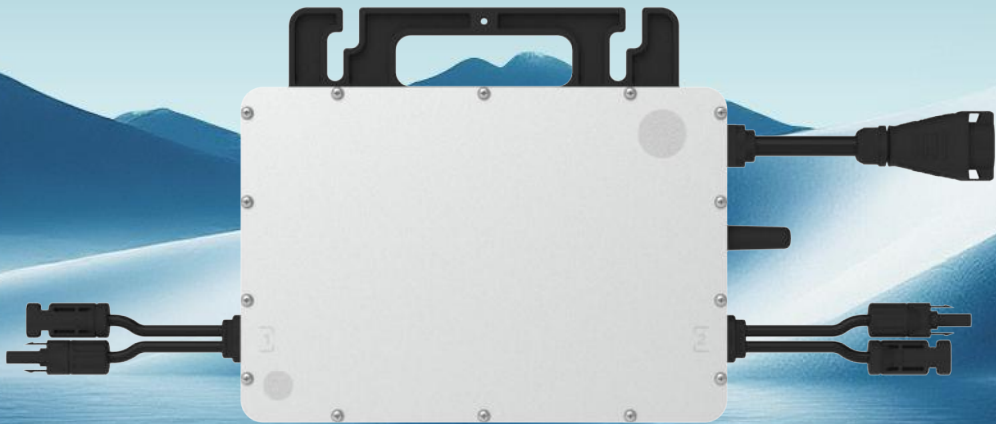
Model	HMS-300-1T	HMS-350-1T	HMS-400-1T	HMS-450-1T	HMS-500-1T
Input Data (DC)					
Commonly used module power (W)	240 to 405+	280 to 470+	320 to 540+	360 to 600+	400 to 670+
Maximum input voltage (V)	60	60	65	65	65
MPPT voltage range (V)	16 –60				
Start-up voltage (V)	22				
Maximum input current (A)	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.

SINGLE-PHASE MICROINVERTER

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.

HMS-(600-1000)W-2T



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.

SINGLE-PHASE MICROINVERTER

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.

HF-800-WB



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

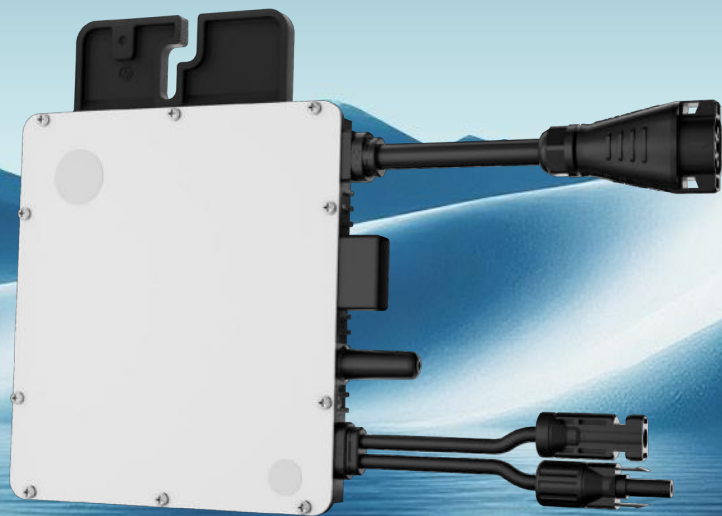
Model	HF-800-WB
Input Data (DC)	
Commonly used module power (W)	320 to 520+
Maximum input voltage (V)	100
MPPT voltage range (V)	16 to 96
Peak MPPT voltage range (V)	54 to 80
Min./Max. start voltage (V)	22/96
Maximum input current (A)	16
Maximum input short circuit current (A)	25
Peak short-circuit current (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)	21
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.

HIFLOW PRO

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.

HMS-(300-500)-1WB



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

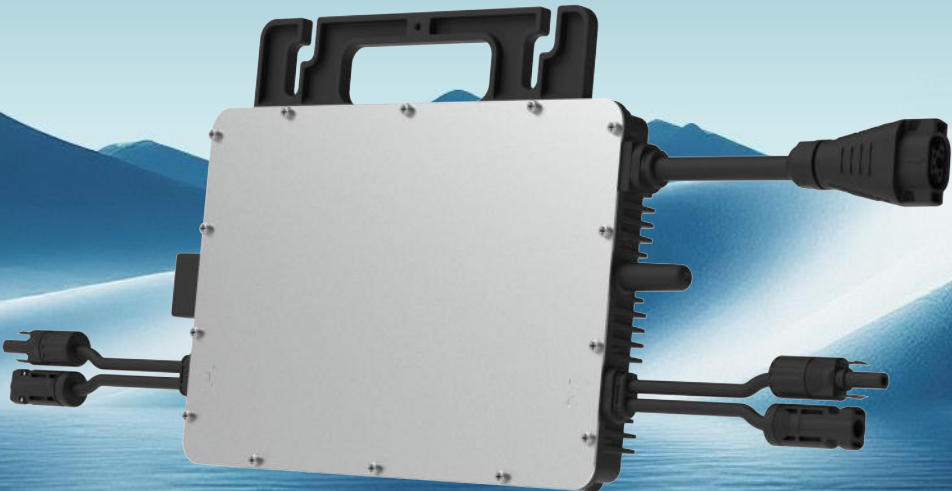
Model	HMS-300-1WB	HMS-350-1WB	HMS-400-1WB	HMS-450-1WB	HMS-500-1WB
Input Data (DC)					
Commonly used module power (W)	240 to 405+	280 to 470+	320 to 540+	360 to 600+	400 to 670+
Maximum input voltage (V)	60	60	65	65	65
MPPT voltage range (V)	16 to 60				
Min./Max. start voltage (V)	22/60				
Maximum 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 (mm²)	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.

HIFLOW PRO

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.

HMS-(600-1000)-2WB



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 (mm²)			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.

HIFLOW PRO

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.

HMS-(1600-2000)-4WB



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.



S-Miles Home

- Module level monitoring
- Real-Time Power Flow
- Comprehensive Energy Tracking

Available:

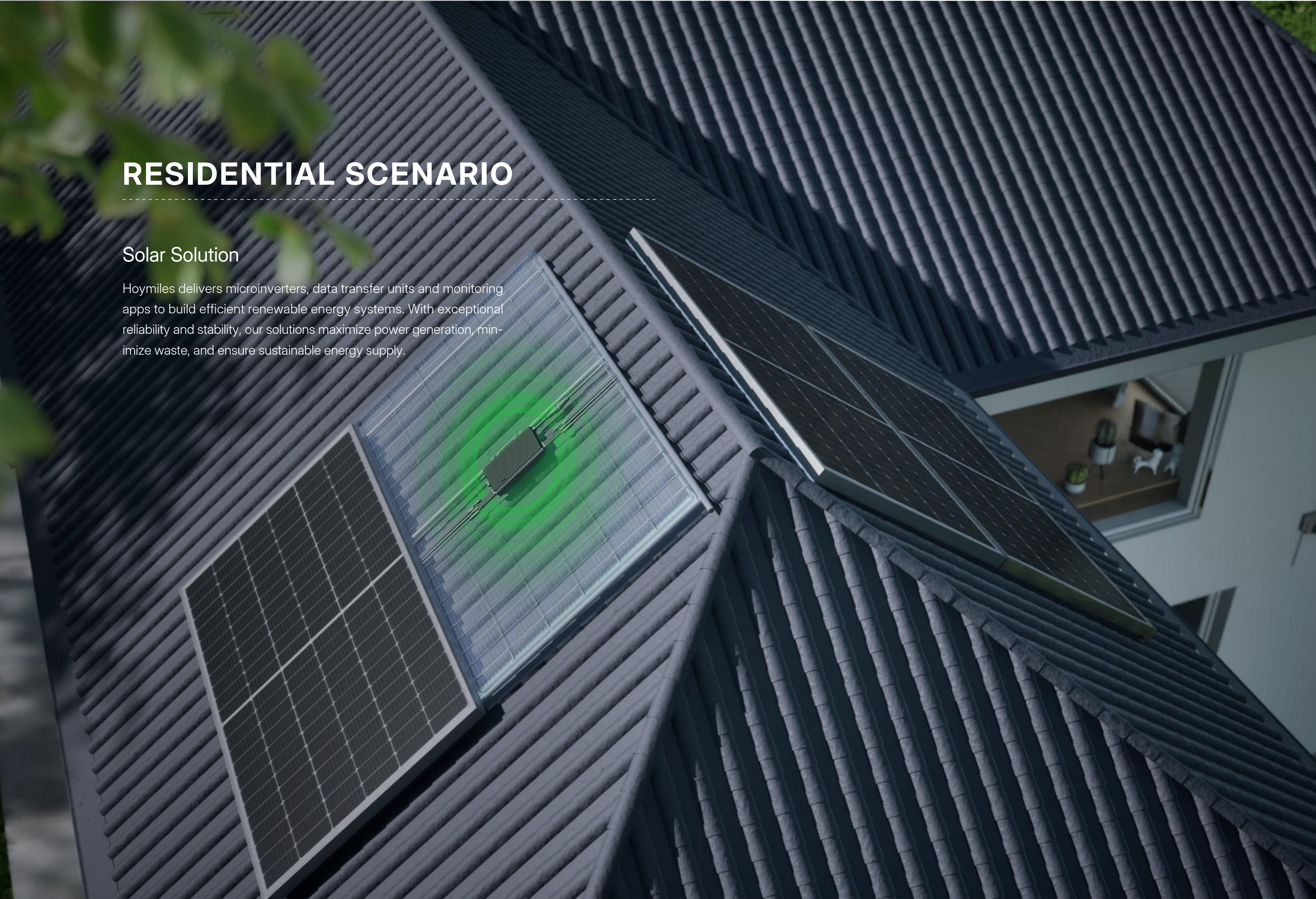
✓ APP- Android / IOS



RESIDENTIAL SCENARIO

Solar Solution

Hoymiles delivers microinverters, data transfer units and monitoring apps to build efficient renewable energy systems. With exceptional reliability and stability, our solutions maximize power generation, minimize waste, and ensure sustainable energy supply.



SOLUTION HIGHLIGHTS

Higher Power Yield

Boost total energy generation by 20–30%, even under shading or complex rooftops.

Remote Monitoring

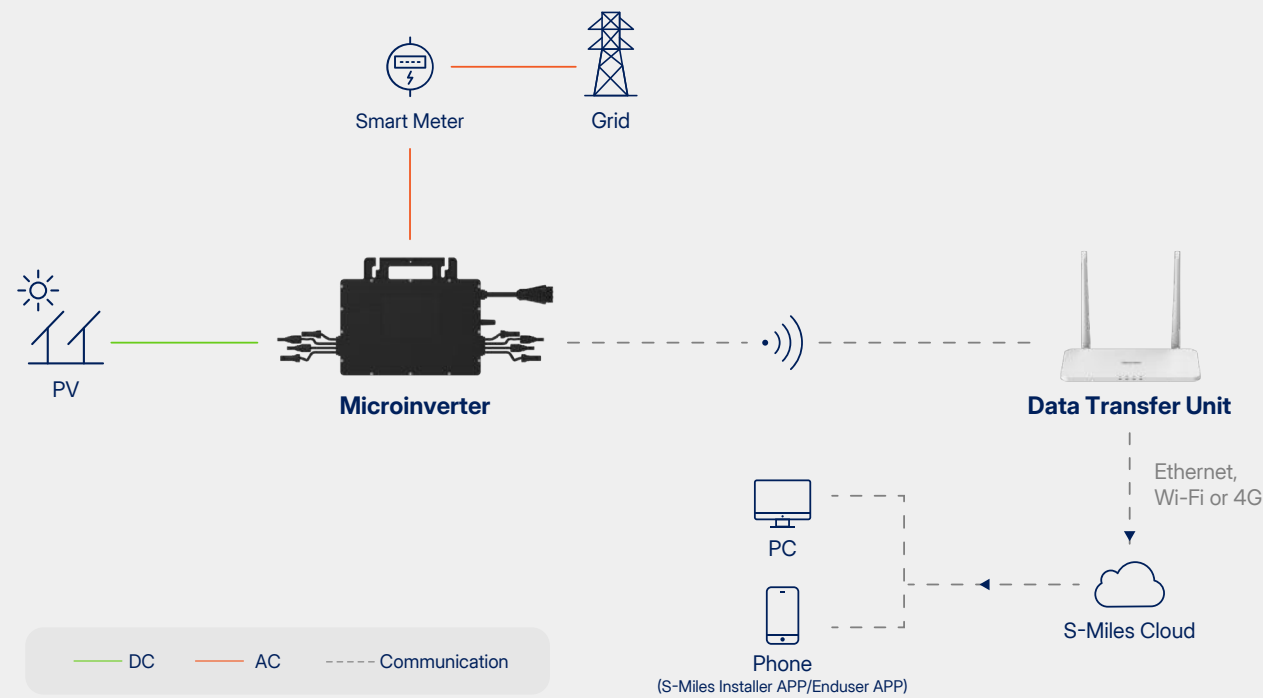
Pinpoint faulty modules without manual checks—faster, smarter maintenance.

Enhanced Safety

Features a <60V DC design and high protection level—ideal for harsh environments.

Worry-Free Expansion

Mix and match different modules; scale your system anytime, anywhere with ease.



What Hoymiles Offers

SINGLE-PHASE MICROINVERTER
HMS SERIES

THREE-PHASE MICROINVERTER
MIT/HMT SERIES

SINGLE-PHASE MICROINVERTER
(WI-FI INTEGRATED)

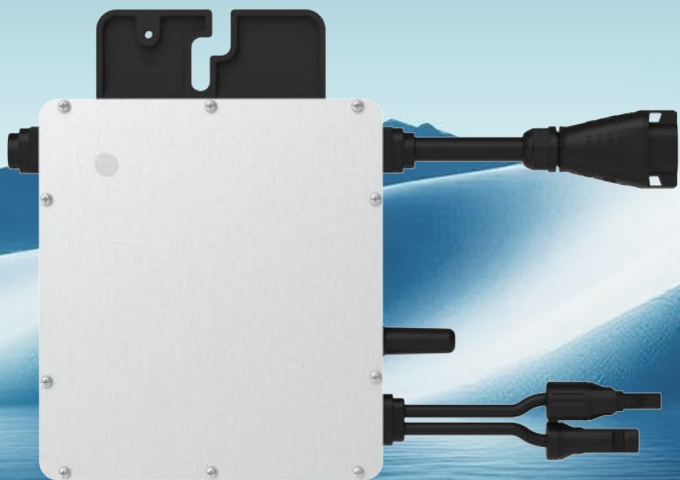
DATA TRANSFER
UNIT

MONITORING
PLATFORM

SINGLE-PHASE MICROINVERTER

With the output power up to 500 VA, Hoymiles new microinverter HMS-500-1T series rank among the highest for 1-in-1 microinverters. All of these models listed are equipped with reactive power control and can meet the requirements of EN 50549-1:2019, VDE-AR-N 4105:2018, VFR2019, etc. The new Sub-1G wireless solution enables more stable communication under various environmental conditions.

HMS-(300-500)-1T



Features

- 01

High-powered microinverter for 1-in-1 with output power up to 500 VA
- 02

With Reactive Power Control, compliant with EN 50549-1:2019, VDE-AR-N 4105:2018, VFR2019, etc.
- 03

Safer for rooftop solar stations with rapid shutdown compliance and isolated transformer
- 04

Connected to one panel, flexible for various applications
- 05

With Flex-S3 Cable System, installation is easier and faster than ever before
- 06

Sub-1G wireless solution allows stable communication with Hoymiles gateway DTU

Technical Specifications

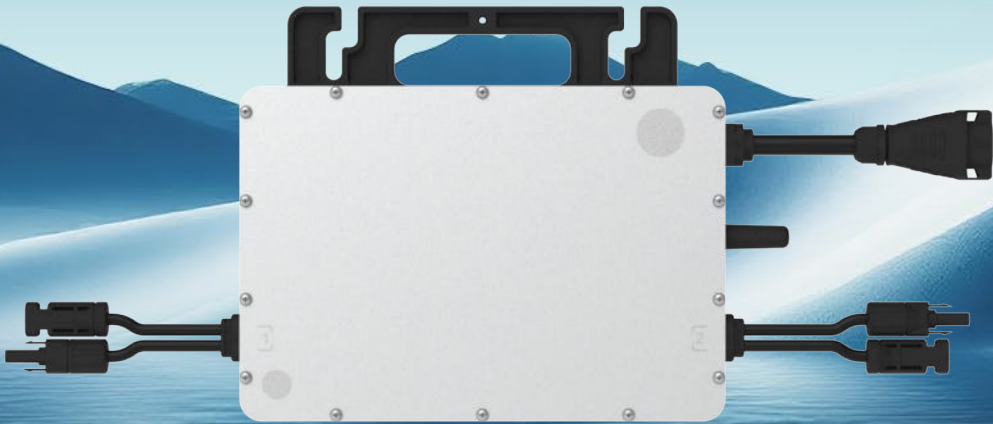
Model	HMS-300-1T	HMS-350-1T	HMS-400-1T	HMS-450-1T	HMS-500-1T
Input Data (DC)					
Commonly used module power (W)	240 to 405+	280 to 470+	320 to 540+	360 to 600+	400 to 670+
Maximum input voltage (V)	60	60	65	65	65
MPPT voltage range (V)	16 –60				
Start-up voltage (V)	22				
Maximum input current (A)	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.

SINGLE-PHASE MICROINVERTER

With the output power up to 1000 VA, Hoymiles new microinverter HMS-1000-2T series rank among the highest for 2-in-1 microinverters. Each microinverter can connect up to 2 panels, with independent MPPT and monitoring maximizing the power production of your installation. The new Sub-1G wireless solution enables more stable communication with Hoymiles gateway DTU.

HMS-(600-1000)-2T



Features

- 01

High-powered microinverter for 2-in-1 with output power up to 1000 VA
- 02

With Reactive Power Control, compliant with EN 50549-1:2019, VDE-AR-N 4105:2018, VFR2019, etc.
- 03

Safer for rooftop solar stations with rapid shutdown compliance and isolated transformer
- 04

Independent MPPT and monitoring ensure greater energy harvest and easier maintenance
- 05

2-in-1 design enables faster installation
- 06

Sub-1G wireless solution allows stable communication in commercial and industrial settings

Technical Specifications

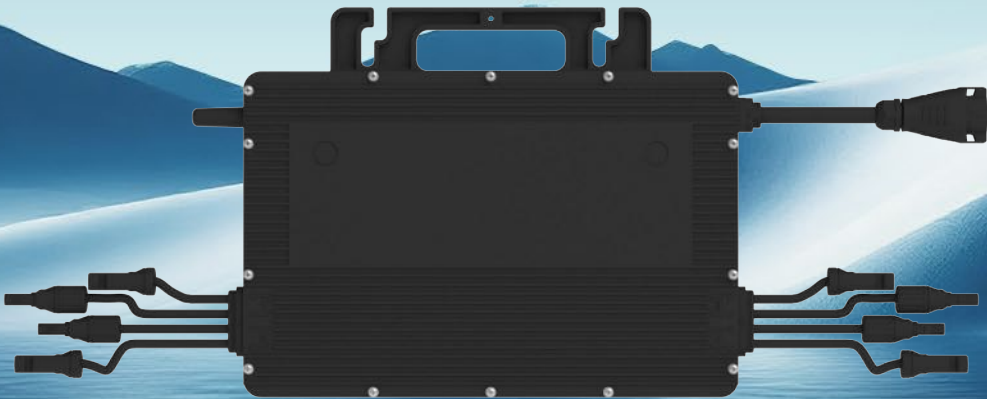
Model	HMS-600-2T	HMS-700-2T	HMS-800-2T	HMS-900-2T	HMS-1000-2T
Input Data (DC)					
Commonly used module power (W)	240 to 405+	280 to 470+	320 to 540+	360 to 600+	400 to 670+
Maximum input voltage (V)	60	60	65	65	65
MPPT voltage range (V)	16 –60				
Start-up voltage (V)	22				
Maximum input current (A)	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.

SINGLE-PHASE MICROINVERTER

With the output power up to 2000 VA, Hoymiles new microinverter HMS-2000-4T series rank among the highest for 4-in-1 microinverters. Each microinverter can connect up to 4 panels, with independent MPPT and monitoring maximizing the power production of your installation. The new Sub-1G wireless solution enables more stable communication with Hoymiles gateway DTU.

HMS-(1600-2000)-4T



Features

- 01

High-powered microinverter with output power up to 2000 VA
- 02

Independent MPPT and monitoring ensure greater energy harvest and easier maintenance
- 03

With Reactive Power Control, compliant with EN 50549-1: 2019, VDE-AR-N 4105: 2018, NF 50549, etc.
- 04

4-in-1 design enables faster installation and comes with a lower cost
- 05

Safer for rooftop solar stations with rapid shutdown compliance and isolated transformer
- 06

Sub-1G wireless solution allows stable communication in commercial and industrial settings

Technical Specifications

Model	HMS-1600-4T			HMS-1800-4T			HMS-2000-4T		
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)	16–60								
Start-up voltage (V)	22								
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)	7.27	6.96	6.67	8.18	7.83	7.50	9.09	8.70	8.33
Nominal output voltage/range (V)*	220/180–275	230/180–275	240/180–275	220/180–275	230/180–275	240/180–275	220/180–275	230/180–275	240/180–275
Nominal frequency/range (Hz)*	50/45–55 or 60/55–65								
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 line**	3	3	3	3	3	3	2	2	3
Maximum units per 4 mm² line**	4	4	5	4	4	4	3	3	4
Maximum units per 6 mm² line**	5	5	6	4	5	5	4	4	4
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								
Dimensions (W × H × D [mm])	331 × 218 × 40.6								
Weight (kg)	5.56								
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, EN 50549-10: 2022, VDE-AR-N 4105: 2018, NF EN 50549-1: 2019, NF EN 50549-10: 2022, IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4, IEC/EN 61000-3-2/-3								

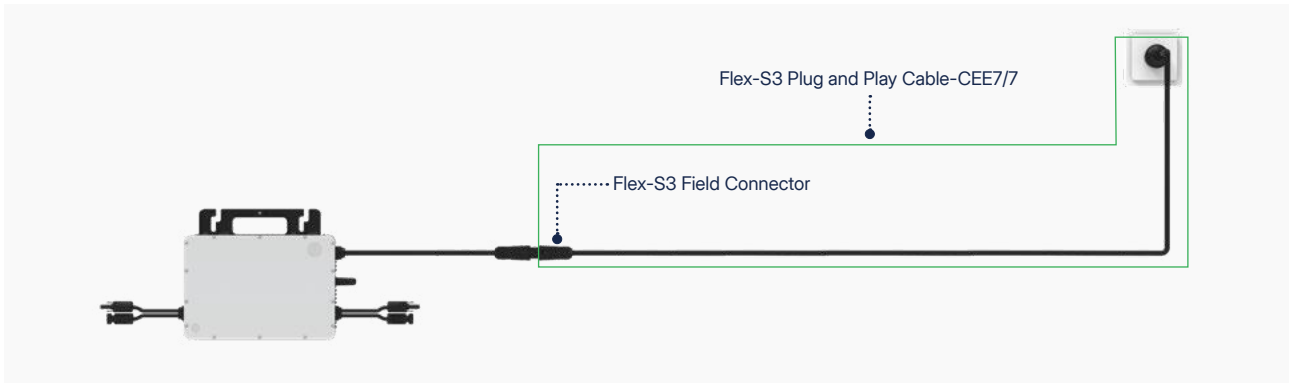
* : Nominal voltage/frequency range can vary depending on local requirements.
**: Refer to local requirements for exact number of microinverters per AC output line.

Flex-S3 Cable Accessories

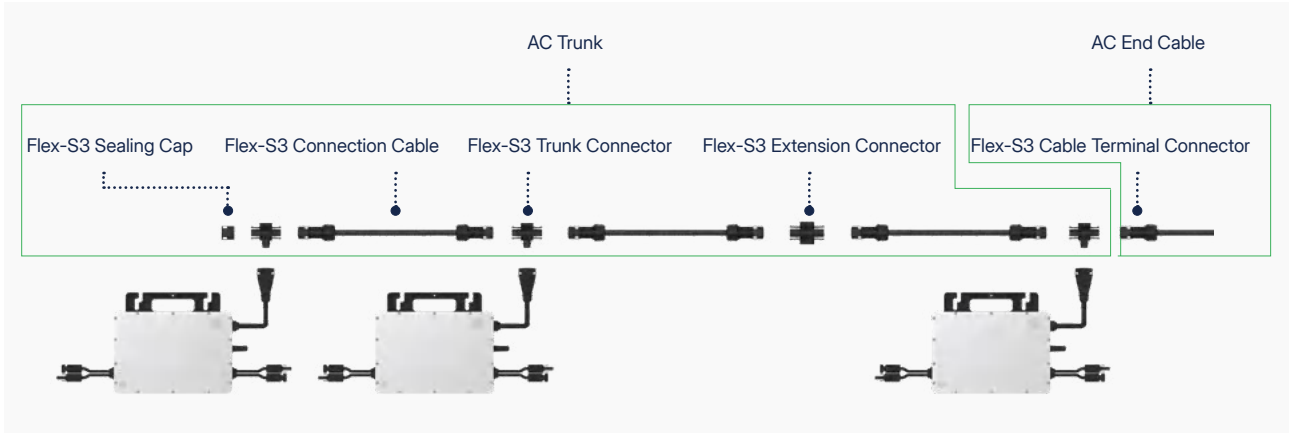
I Simplify Your Installation with Easy & Flexible & Reliable Cable System

The Flex-S3 Cable System is a revolutionary cabling solution designed for the HMS series microinverters, which can be used in PV systems with either one or multiple microinverters. Its user-friendly plug-and-play design makes the installation easier, faster, and more reliable. The Flex-S3 Cable System also features high flexibility, allowing you to mix and match Flex-S3 Connection Cables of different sizes or lengths to achieve your desired wiring configuration at the lowest cost.

Single-Microinverter System



Multi-Microinverter System



Time-saving & Cost-effective

- Plug-and-play design eliminates the need for complex wiring and crimping, cutting installation time by 70%
- Handle current up to 40 A, allowing more microinverters to be connected in series and lowering system costs

Compatibility

- Work seamlessly with the current HMS series microinverters

Flexibility

- Provide great flexibility for AC Trunk design that caters to the specific requirements of your PV system
- Work with Flex-S3 Connection Cables of different cable sizes

Reliability

- Improved internal design reduces connection resistance
- Plug-and-play assembly minimizes the risk of errors during field installation

Single-Microinverter System

Flex-S3 Field Connector

The Flex-S3 Field Connector is used when a PV system has only one microinverter. It helps make a quick and simple connection between the microinverter and the electrical grid.

Flex-S3 Plug and Play Cable-CEE7/7

The Flex-S3 Plug and Play Cable-CEE7/7 is designed for the situation where a PV system has only one microinverter. It includes a Flex-S3 Field Connector, an AC cable, and a plug. The Flex-S3 Field Connector attaches to the microinverter, and the plug connects to a household socket, following local regulations. This simple design lets you quickly and easily connect the system to the grid.

Technical Specifications

Flex-S3 Field Connector	
Compatible microinverter	HMS series
Pin number	2P+PE
Rated voltage	300 V
Rated current	12 A (Use 1.5 mm² copper cable)
Applicable cable specification	1.0/1.5 mm²
Applicable cable outer diameter	8 to 9.5 mm
Cable connection type	Screw pressing (Solid Wire) / Crimping (Stranded Wire)
Ambient temperature range	-40°C to +85°C
Dimensions (L × W × H)	135 × 38 × 25 mm
Protection degree	IP68
Flame resistance degree	UL 94-V0
Compliance	RoHS
Product standard	PPP 59015A: 2013
Flex-S3 Plug and Play Cable-CEE7/7	
Compatible microinverter	HMS series
Consisting components	Flex-S3 Field Connector + Cable + AC plug
Cable type	PV07AC-F
Conductors cross-sectional area	1 mm²
Cable outer diameter	9.3±0.40 mm
Minimum bending radius	6 cm
AC Plug standard	CEE 7/7
Rated voltage	250 V
Rated current	12 A
Ambient temperature range	-40°C to +85°C
Compliance	RoHS
Product standard	PPP 59015A: 2013 (Connector) / TÜV 2 PFG 1940 (Cable) / VDE 0620 (Plug)

Ordering Options

Name	New Model (Previous Model)*	Cable Length Between Connector and Plug	Number per Box	Box Dimensions
Flex-S3 Field Connector	S3-FC-EN15S (HMS Field Connector-1PCS)	/	300 PCS	495 × 290 × 255 mm
	S3-FC-EN15S(100PCS) ** (HMS Field Connector-100PCS)	/	300 PCS (3 bags × 100 PCS per each)	495 × 290 × 255 mm
	S3-FC-EN15C(100PCS)** (HMS Field Connector-EN15C-100PCS)	/	300 PCS (3 bags × 100 PCS pe reach)	495 × 290 × 255 mm
Flex-S3 Plug and Play Cable-CEE7/7	S3-PPC7-EN15-300 (HMS Plug and Play Cable-CEE7/7-3m)	3.0 m	30 PCS	345 × 345 × 375 mm
	S3-PPC7-EN15-500 (HMS Plug and Play Cable-CEE7/7-5m)	5.0 m	20 PCS	345 × 345 × 375 mm
	S3-PPC7-EN15-1000	10.0 m	10 PCS	345 × 345 × 375 mm

*: Hoymiles has renamed the accessories listed above, and that's the only change we've made. Please be assured that everything else remains the same.
**: The S3-FC-EN15S and S3-FC-EN15S (100PCS) are designed for solid wire and use screws to hold the conductors in place, while the S3-FC-EN15C (100PCS) is designed for stranded wire and uses a crimping method to secure the conductors.

Multi-Microinverter System

Flex-S3 Connection Cable

Make a customized AC Trunk by utilizing Flex-S3 Trunk Connectors and Flex-S3 Extension Connectors.



Flex-S3 Trunk Connector

Used to connect the microinverter's AC output to the AC Trunk, as well as to join together multiple Flex-S3 Connection Cables to create the AC Trunk.



Flex-S3 Cable Terminal Connector

Used to form an AC cable into the AC End Cable, completing the connection between the AC Trunk and the distribution box. It supports a maximum cable diameter of 16.5 mm.



Flex-S3 Extension Connector

Used to extend your cable runs when the distance between two microinverters exceeds the standard length of a Flex-S3 Connection Cable.



Flex-S3 Sealing Cap

Used to cover the unused connection port on the Flex-S3 Trunk Connector, which is typically located at the beginning of the AC Trunk.



Flex-S3 Disconnect Tool

A versatile tool that can be used to take apart connectors, tighten nuts, and loosen nuts.



Technical Specifications

Connector System Parameter

Compatible microinverter	HMS series
Pin number	2P + PE
Rated voltage	300 V
Rated current	40 A
Max. supported conductor sizes	6.0 mm ²
Max. supported cable outer diameter	16.5 mm
Ambient temperature range	-40°C to +85°C
Protection degree	IP68
Flame resistance degree	UL94-V0
Compliance	RoHS
Product standard	IEC 61984

Cable Parameter

Cable type	H07RN-F
Rated voltage	450 V
Conductor size	2.5 mm ² / 4.0 mm ² / 6.0 mm ²
UV exposure rating	According to 2PFG 1940
Cable flame rating	According to IEC 60332-1-2
Ambient temperature range	-40°C to +90°C
Compliance	RoHS
Product standard	EN50525-2-21

Ordering Options

Name	New Model (Previous Model)*	Number per Box	Box Dimensions
Flex-S3 Sealing Cap	S3-SC (HMS Sealing Cap-1PCS)	500 PCS	480 × 354 × 265 mm
Flex-S3 Trunk Connector	S3-TC-EN (HMS Trunk Connector-1PCS)	200 PCS	480 × 354 × 265 mm
Flex-S3 Extension Connector	S3-EC-EN (HMS Extension Connector-1PCS)	200 PCS	480 × 354 × 265 mm
Flex-S3 Disconnect Tool	S3-DT (HMS Disconnect Tool-1PCS)	200 PCS	480 × 354 × 265 mm
Flex-S3 Cable Terminal Connector	S3-CTC-EN25C (HMS Cable Terminal Connector-EN25-1PCS)	200 PCS	480 × 354 × 265 mm
	S3-CTC-EN4060C (HMS Cable Terminal Connector-EN4060-1PCS)	200 PCS	480 × 354 × 265 mm
	S3-CTC-EN2560C (HMS Cable Terminal Connector-ENA-1PCS)	200 PCS	480 × 354 × 265 mm
	S3-CTC-EN2560S	200 PCS	480 × 354 × 265 mm

Name	Connection Cable New Model (Previous Model)*	Conductors Cross Sectional Area	Rated Current @55 °C**	Cable Length Between Connectors***	Minimum Bending Radius	Number per Box	Box Dimensions
Flex-S3 Connection Cable	S3-CC-EN25-110 (HMS Connection Cable-EN25-110)	3 × 2.5 mm ²	25 A	1.1 m	8 cm	30 PCS	480 × 354 × 265 mm
	S3-CC-EN25-200 (HMS Connection Cable-EN25-200)	3 × 2.5 mm ²	25 A	2.0 m	8 cm	25 PCS	480 × 354 × 265 mm
	S3-CC-EN25-230 (HMS Connection Cable-EN25-230)	3 × 2.5 mm ²	25 A	2.3 m	8 cm	25 PCS	480 × 354 × 265 mm
	S3-CC-EN25-300 (HMS Connection Cable-EN25-300)	3 × 2.5 mm ²	25 A	3.0 m	8 cm	20 PCS	480 × 354 × 265 mm
	S3-CC-EN25-460 (HMS Connection Cable-EN25-460)	3 × 2.5 mm ²	25 A	4.6 m	8 cm	15 PCS	480 × 354 × 265 mm
	S3-CC-EN40-110 (HMS Connection Cable-EN40-110)	3 × 4.0 mm ²	34 A	1.1 m	9 cm	35 PCS	480 × 354 × 265 mm
	S3-CC-EN40-200 (HMS Connection Cable-EN40-200)	3 × 4.0 mm ²	34 A	2.0 m	9 cm	20 PCS	480 × 354 × 265 mm
	S3-CC-EN40-230 (HMS Connection Cable-EN40-230)	3 × 4.0 mm ²	34 A	2.3 m	9 cm	20 PCS	480 × 354 × 265 mm
	S3-CC-EN40-300 (HMS Connection Cable-EN40-300)	3 × 4.0 mm ²	34 A	3.0 m	9 cm	15 PCS	480 × 354 × 265 mm
	S3-CC-EN40-460 (HMS Connection Cable-EN40-460)	3 × 4.0 mm ²	34 A	4.6 m	9 cm	10 PCS	480 × 354 × 265 mm
	S3-CC-EN60-110 (HMS Connection Cable-EN60-110)	3 × 6.0 mm ²	40 A	1.1 m	10 cm	TBD	480 × 354 × 265 mm
	S3-CC-EN60-200 (HMS Connection Cable-EN60-200)	3 × 6.0 mm ²	40 A	2.0 m	10 cm	20 PCS	480 × 354 × 265 mm
	S3-CC-EN60-230 (HMS Connection Cable-EN60-230)	3 × 6.0 mm ²	40 A	2.3 m	10 cm	15 PCS	480 × 354 × 265 mm
	S3-CC-EN60-300 (HMS Connection Cable-EN60-300)	3 × 6.0 mm ²	40 A	3.0 m	10 cm	TBD	480 × 354 × 265 mm
	S3-CC-EN60-460 (HMS Connection Cable-EN60-460)	3 × 6.0 mm ²	40 A	4.6 m	10 cm	5 PCS	480 × 354 × 265 mm

*: Hoymiles has renamed the accessories listed above, and that's the only change we've made. Please be assured that everything else remains the same.

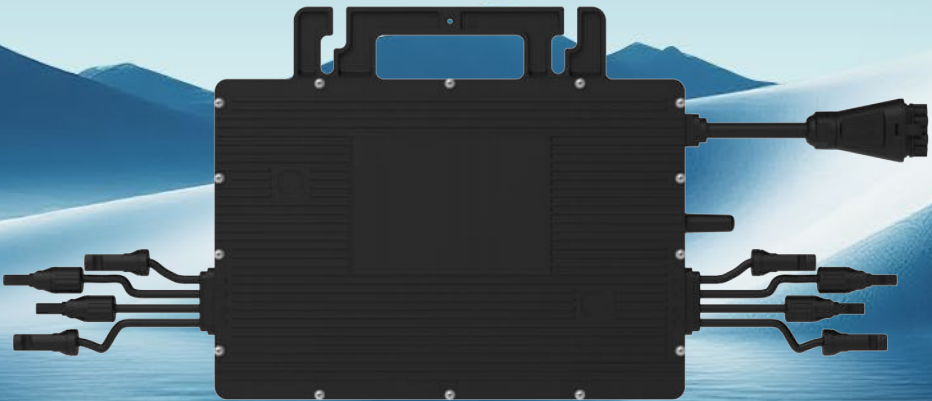
**：The value provided is typical at 55°C and may change at different temperatures. For calculating the actual current capacity of the cable at other temperatures, refer to the 'Calculating the Current-Carrying Capacity of Cables in Single-Phase Cable System'. Be sure to follow local standards when designing and installing cables.

***: Cable length is customizable. For more details, please contact the Hoymiles sales team.

THREE-PHASE MICROINVERTER

The Hoymiles HMT-2000-4T series microinverter is designed for highpowered PV modules, offering a maximum output power of up to 2000 VA and a maximum DC input current of up to 16 A. Its innovative 4-input design streamlines installation and reduces costs, making the HMT-2000-4T series a highly cost-effective choice. The new Sub-1G wireless solution ensures stable communication with the Hoymiles gateway DTU, while the S-Miles Cloud platform enables module-level monitoring and remote operation and maintenance (O&M).

HMT-(1600-2000)-4T



Features

- 01

Three-phase output, more suitable for commercial and industrial applications
- 02

With output power up to 2000 VA, compatible with 182 mm/210 mm PV module
- 03

Grid protection relay integrated
- 04

4-in-1 design enables faster installation and comes with a lower cost
- 05

Safer for rooftop solar stations with rapid shutdown compliance and isolated transformer
- 06

Sub-1G wireless solution allows stable communication in commercial and industrial settings

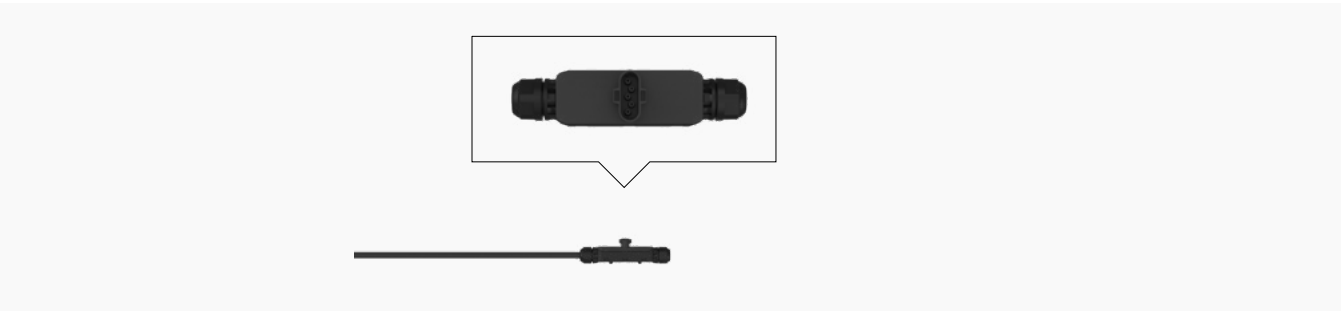
Technical Specifications

Model	HMT-1600-4T	HMT-1800-4T	HMT-2000-4T
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)	16–60		
Minimum/Maximum start-up 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	2		
Number of inputs per MPPT	2		
Output Data (AC)			
Grid Type	Three Phase		
Rated output power (VA)	1600	1800	2000
Rated output current (A)	2.32 × 3	2.61 × 3	2.9 × 3
Nominal output voltage (V)	230/400, 3W+N+PE		
Nominal frequency (Hz)	50		
Adjustable power factor (@nominal power)	> 0.99 default		
Total harmonic distortion (@nominal power)	< 3%		
Maximum units per 2.5 mm ² branch [*]	9	8	7
Maximum units per 4 mm ² branch [*]	12	11	10
Maximum units per 6 mm ² branch [*]	16	14	13
Efficiency			
Peak efficiency	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])	326 × 222 × 40.6		
Weight (kg)	5.9		
Enclosure rating	Outdoor-IP67		
Cooling	Natural convection-No fans		
Features			
Communication	Sub-1G		
Type of isolation	Galvanically Isolated HF Transformer		
Monitoring	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		

* : Refer to local requirements for exact number of microinverters per branch.

** : Hoymiles Monitoring System

Cable Accessories for Microinverter of HMT Series



3P-AC Trunk Cable (12/10 AWG, with 3P-AC Trunk Connector)

3P-AC Trunk cable is a 12/10 AWG cable with pre-installed 3P-AC Trunk connector for HMT Series Microinverters. AC Trunk Cable is used to connect the microinverter to distribution box.



3P-AC Trunk Port Cap

Used to protect vacant AC Trunk Port.



3P-AC Trunk End Cap

Used to protect the cable port of 3P-AC Trunk Connector at the end of the 3P-AC branch.



3P-AC Trunk Port Disconnect Tool

Used to disconnect the connection between the microinverter and the 3P-AC Trunk Connector.



3P-AC Trunk Connector Unlock Tool

Used to unlock the 3P-AC Trunk Connector upper cover so that the cable can be removed, replaced, and the 3P-AC Trunk End Cap installed.



DC Extension Cable

Connect the microinverter and the PV module when the distance between the two exceeds the original cable length.

Technical Specifications

Model		3P-AC Trunk Cable
Main Parameters		
Cable type		10 AWG
Rated voltage		600 V
Cable outer diameter		15.8±0.50 mm
Ambient temperature range		-40°C to +90°C
AC Trunk Connector spacing		3.05 m
Number of AC Trunk Connectors per single AC Trunk Cable		14
Single AC Trunk Cable length		45.5 m
Compliance		
Product standard		UL 44, UL 1277, UL 1581
RoHS compliant		Yes

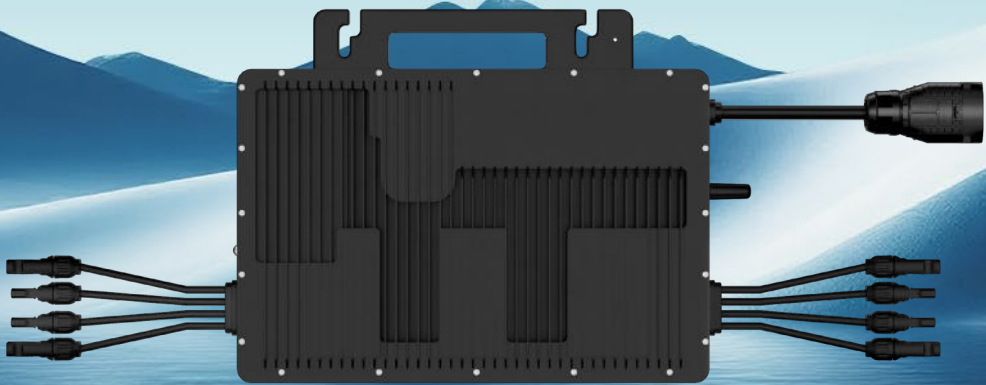
Model		3P-AC Trunk Connector
Main Parameters		
Pin number		3P+N+PE
Rated current		32 A (Use 10 AWG/6mm ² copper cable)
Rated voltage		500 V
Contact resistance		≤5 mΩ
Power frequency withstand voltage		3000 V AC
Over voltage type		III
Connection Parameter		
Applicable cable specification		12/10 AWG
Applicable cable outer diameter		13 mm to 18 mm
Cable connection type		Screw pressing
Sub connector connection type		Crimping
Mechanical Data		
Ambient temperature range		-40°C to +85°C
Dimensions (L × W × H mm)		200 × 45 × 120
Protection rating		IP68
Flame resistance degree		UL 94-V0
Compliance		
Product standard		2PFG1915 ANSI/UL 6703-2017
RoHS compliant		Yes

Model		DC Extension Cable	
Cable			
Cable type		PV1-F 1X4	
Rated current		20 A	
Rated voltage		Max.1800V DC	
Cable length		1 m	
Ambient temperature range		-40°C to +90°C	
Product standard		2 PFG 1169/08.2007	
DC Connector			
Manufacturer	Betteri	Staubli	
Type	BC03A, BC03B	PV-KBT4/6II-UR	
Rated current	30 A	39 A (TUV), 30 A (UL)	
Rated voltage	1000 V DC (TUV), 600/1000 V DC (CSA)	1000 V DC (TUV), 1500 V DC (UL)	
Rated impulse withstand voltage	6000 V	12000 V	
Over voltage category		III	
Ambient temperature range	-40°C to +85°C	-40°C to +85°C (TUV), -40°C to +75°C (UL)	
Protection rating	IP67	IP68	
Flame resistance degree		UL 94-V0	
Product standard	EN 62852:2014 UL 6703	EN 62852 UL 6703 2PFG2330 CNCA/CTS0002-2012	
RoHS compliant		Yes	

THREE-PHASE MICROINVERTER

Hoymiles new generation microinverter MIT-5000-8T series is designed to accommodate eight high-powered PV modules, with output power up to 5000 W and input current up to 20 A. Its four MPPTs maximize energy harvest, ensuring optimal performance. The innovative 8-in-1 design significantly reduces system costs, making the MIT-5000-8T series a cost-effective choice. The Sub-1G wireless solution ensures stable communication with Hoymiles gateway DTU, and enables module-level monitoring and remote O&M on Hoymiles Monitoring Platform S-Miles Cloud.

MIT-(4000-5000)-8T



Features

- 01

Three-phase output, ideal for commercial and industrial applications
- 02

Output power up to 5000 W and input current up to 20 A, compatible with 182 mm/210 mm PV modules
- 03

Four MPPTs, optimizing power generation
- 04

Low input voltage for safer rooftop installations, minimizing arc faults and electric shocks
- 05

8-in-1 design for quick installation with Flex-T5 Cable System, reducing costs
- 06

Sub-1G wireless solution for stable communication and convenient O&M

Technical Specifications

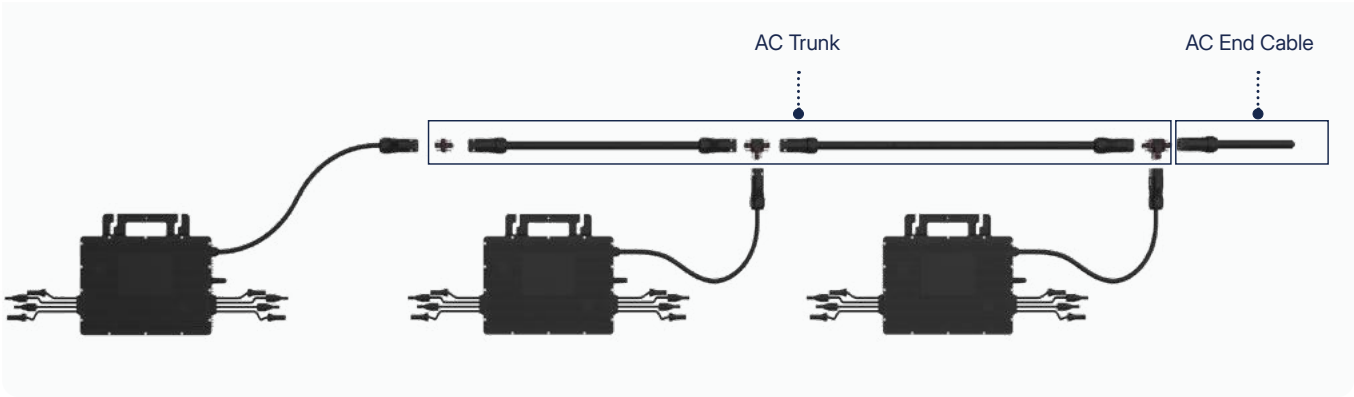
Model	MIT-4000-8T		MIT-4500-8T		MIT-5000-8T	
Input Data (DC)						
Commonly used module power (W)	400 to 650+		560 to 700+		600 to 750+	
Maximum input voltage (V)			140			
Minimum/Maximum start-up voltage (V)			32/136			
MPPT voltage range (V)			12-136			
Peak power MPPT voltage range (V)	58-136		59-136		66-136	
Maximum input current (A)			4 × 20			
Maximum input short circuit current (A)			4 × 25			
Number of MPPTs			4			
Number of inputs per MPPT			1			
Output Data (AC)						
Grid type	Three Phase					
Rated output power (W)	4000		4500		5000	
Rated output current (A)	3 × 6.06	3 × 5.79	3 × 6.82	3 × 6.52	3 × 7.58	3 × 7.25
Nominal output voltage (V)	220/380, 3L+N+PE	230/400, 3L+N+PE	220/380, 3L+N+PE	230/400, 3L+N+PE	220/380, 3L+N+PE	230/400, 3L+N+PE
Nominal frequency (Hz)*	50/60					
Nominal range (Hz)*	45-55 / 55-65					
Adjustable power factor (@rated power)	>0.99 default 0.8 leading ... 0.8 lagging					
Total harmonic distortion (@rated power)	< 3%					
Maximum units per 2.5 mm² branch**	4	4	3	4	3	3
Maximum units per 4 mm² branch**	5	5	4	5	4	4
Maximum units per 6 mm² branch**	6	6	5	6	5	5
DC/AC ratio	≤ 1.35					
Efficiency						
Peak efficiency	97.40%		97.40%		97.40%	
EU weighted efficiency	96.10%		96.30%		96.40%	
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])	395 × 308 × 60					
Weight (kg)	9					
Enclosure rating	Outdoor-IP67					
Cooling	Natural convection-No fans					
Features						
Communication	Sub-1G					
Topology	Transformerless					
Monitoring	S-Miles Cloud (Hoymiles Monitoring Platform)					
Compliance	EN 50549-1: 2019, EN 50549-10:2022 IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4, IEC/EN 61000-3-2/-3, UL 3741					

* : The parameter may vary depending on local requirements.
** : Refer to local requirements for exact number of microinverters per branch.

Flex-T5 Cable Accessories

I Simplify Your Installation with Easy, Flexible, and Reliable Cable System

The Flex-T5 Cable System is a revolutionary cabling solution designed for MiT series microinverters. Its user-friendly plug-and-play design makes the installation easier, faster, and more reliable. The Flex-T5 Cable System features high flexibility, allowing users to mix and match Flex-T5 Connection Cables of different sizes or lengths to achieve their desired wiring configuration at the lowest cost.





Time-saving: Plug-and-play design eliminates the need for complex wiring, cutting installation time by 70%.



Cost-effective: The microinverter's AC output shares the same design as all connectors in the AC Trunk, enhancing flexibility while cutting costs.



Flexibility: Provide great flexibility for AC Trunk design that caters to the specific requirements of your PV system.



Reliability: Reconfigured wiring layout reduces heat production, ensuring a secure and stable connection.

Flex-T5 Connection Cable

Makes a customized AC Trunk by utilizing Flex-T5 Trunk Connectors and Flex-T5 Extension Connectors.



Flex-T5 Trunk Connector

Used to connect the microinverter's AC output to the AC Trunk, and to join together multiple Flex-T5 Connection Cables to create the AC Trunk.



Flex-T5 Extension Connector

Used to connect the first microinverter in the AC Trunk, to extend cable runs between microinverters when the distance exceeds the standard Flex-T5 Connection Cable length, and to create a cost-effective single-microinverter system.



Flex-T5 Cable Terminal Connector

Used to form the AC cable into an AC End Cable, which completes the connection between the end of the AC Trunk and the distribution box.



Flex-T5 Disconnect Tool

A versatile tool that can be used to take apart connectors, tighten nuts, and loosen nuts.



Technical Specifications

Connector System Parameter		
Compatible microinverter		MiT series
Pin number		3P + N + PE
Rated voltage		500 V
Rated current		40 A
Max. supported conductor size		6.0 mm ²
Max. supported cable outer diameter		20.5 mm
Ambient temperature range		-40°C to +85°C
Protection rating		IP68
Flame resistance degree		UL94-V0
Compliance		RoHS, UV Resistant
Product standard		EN 61984
Cable Parameter		
Cable type		H07RN-F
Rated voltage		450 V / 750 V
Conductor size		2.5 / 4.0 / 6.0 mm ²
Ambient temperature range		-40°C to +90°C
Compliance		RoHS
Product standard		EN50525-2-21

Ordering Options

Name	Model	Number per Box	Box Dimensions
Flex-T5 Trunk Connector	T5-TC	160 PCS	495 mm × 290 mm × 255 mm
Flex-T5 Extension Connector	T5-EC	300 PCS	495 mm × 290 mm × 255 mm
Flex-T5 Disconnection Tool	T5-DT	320 PCS	495 mm × 290 mm × 255 mm
Flex-T5 Cable Terminal Connector	T5-CTC-EN2540C	110 PCS	495 mm × 290 mm × 255 mm
	T5-CTC-EN60C	TBD	495 mm × 290 mm × 255 mm
	T5-CTC-EN2560C	TBD	495 mm × 290 mm × 255 mm
	T5-CTC-EN2560S	TBD	495 mm × 290 mm × 255 mm

Flex-T5 Connection Cable Model	Conductors Cross Sectional Area	Rated Current *	Cable Length Between Connectors **	Minimum Bending Radius	Number per Box	Box Dimensions
T5-CC-EN25-230	5 × 2.5 mm ²	22 A	2.3 m	9 cm	TBD	345 mm × 345 mm × 375 mm
T5-CC-EN25-300	5 × 2.5 mm ²	22 A	3.0 m	9 cm	TBD	345 mm × 345 mm × 375 mm
T5-CC-EN25-460	5 × 2.5 mm ²	22 A	4.6 m	9 cm	TBD	345 mm × 345 mm × 375 mm
T5-CC-EN40-230	5 × 4.0 mm ²	30 A	2.3 m	11 cm	TBD	345 mm × 345 mm × 375 mm
T5-CC-EN40-300	5 × 4.0 mm ²	30 A	3.0 m	11 cm	TBD	345 mm × 345 mm × 375 mm
T5-CC-EN40-460	5 × 4.0 mm ²	30 A	4.6 m	11 cm	TBD	345 mm × 345 mm × 375 mm
T5-CC-EN60-230	5 × 6.0 mm ²	39 A	2.3 m	12 cm	TBD	345 mm × 345 mm × 375 mm
T5-CC-EN60-300	5 × 6.0 mm ²	39 A	3.0 m	12 cm	TBD	345 mm × 345 mm × 375 mm
T5-CC-EN60-460	5 × 6.0 mm ²	39 A	4.6 m	12 cm	TBD	345 mm × 345 mm × 375 mm

* : Comply with local standards when designing and installing cables.
** : Cable length can be customized. Contact Hoymiles sales for more details.

DATA TRANSFER UNIT

The Hoymiles DTU-Pro-S gateway collects data from PV microinverters using a Sub-1G wireless connection and transmits it to the Hoymiles monitoring platform S-Miles Cloud via Ethernet, Wi-Fi, or 4G. With the DTU-Pro-S, you can access real-time, module-level data and system alerts, monitor system performance remotely, and troubleshoot issues from anywhere using S-Miles Cloud.

DTU-Pro-S



Features

01 Reliable and Flexible

- Sub-1G wireless solution enables stable communication with HMS3, HMT, MiS, MiT3 series microinverters
- More communication options with Ethernet, Wi-Fi, or 4G
- Support of RS485, Ethernet to communicate with peripherals

02 Simple and Efficient O&M

- Module-level monitoring and data storage
- Local configuration with S-Miles Installer App
- Support remote O&M including remote upgrading, parameter setting

03 Smart

- Smart zero export control and power export limiting
- PV generation and load consumption monitoring

Technical Specifications

Model	DTU-Pro-S (Wi-Fi Version)	DTU-Pro-S (4G Version)
Communication to Microinverter		
Signal	Sub-1G	
Maximum distance (open space) (m)	400	
Monitoring data limit from solar panels ¹	99	
Communication to S-Miles Cloud		
Ethernet	RJ45 × 1, 100 Mbps	
Wireless standard ²	Wi-Fi: 802.11b/g/n	4G: TDD-LTE, FDD-LTE 3G: SCDMA 2G: GSM/GPRS
Radio band (GHz)	2.4	
Sample rate (min)	Per 5	
Communication to Peripherals		
RS485	COM × 1, 9600 bps, Modbus-RTU	
Ethernet	RJ45 × 1, Modbus-TCP	
DRM	RJ45 × 1, DRM0/5/6/7/8	
Interaction		
LED	LED Indicator × 4 – RUN, Cloud, MI, ALM	
APP	S-Miles Installer	
Power Supply (Adapter)		
Type	External adapter	
Adapter input voltage/frequency (V AC/Hz)	100 to 240 / 50 or 60	
Adapter output voltage/current (V/A)	5 / 2	
Power consumption (W)	Typ. 1.5 / Max. 3.0	Typ. 2.5 / Max. 5.0
Mechanical Data		
Ambient temperature (°C)	-20 to +55	
Dimensions (W × H × D [mm])	200 × 101 × 29 (without antennas)	
Weight (kg)	0.20	
Installation method	Wall mounting / Desktop mounting	
Environmental rating	Indoor-IP20	
Compliance		
Certificates	CE, FCC, IC, RCM, Anatel	
Microinverter Compatibility		
Microinverter model	HMS series ³ , HMT series, MiT series ³ , MiS Series	

^{*1} This depends on the installation environment. Please refer to the user manual for more details.
^{*2} Extended antenna is recommended if the DTU is installed inside a metal box or under a metal/concrete roof.
^{*3} DTU-Pro-S is compatible with: (a) HMS Series microinverters except HMS-300W/350W/400W/450W/500W-1T, HMS-600W/700W/800W/900W/1000W-2T, and HMS-1600DW/1800DW/2000DW-4T microinverters; (b) MiT Series microinverters except MIT-4000/4500/5000-8E Series microinverters.

DATA TRANSFER UNIT

The Hoymiles DTU-Lite-S is a compact data transfer unit for residential solar systems. Its small size and simple installation make it easy to set up. It uses Sub-1G wireless communication to collect data from microinverters and sends this data to the Hoymiles monitoring platform, S-Miles Cloud, using Wi-Fi. With the DTU-Lite-S, you can view real-time data and alarms for each PV module. You can monitor system performance remotely and perform maintenance anytime, from anywhere, through S-Miles Cloud.

DTU-Lite-S



Features

- 01

Module-level monitoring and data storage
- 02

Plug and play, easy installation
- 03

Sub-1G wireless solution with microinverter
- 04

Real-time microinverter data and alarm on S-Miles Toolkit
- 05

Remote system management on S-Miles Cloud

Technical Specifications

Model	DTU-Lite-S
Communication to Microinverter	
Type	Sub-1G
Maximum distance (open space)	400 m
Monitoring data limit from solar panels ¹	99
Communication to S-Miles Cloud	
Wireless standard	Wi-Fi 802.11b/g/n
Radio band	2.4 Ghz
Sample rate	Per 15 minutes
Interaction	
LED	LED Indicator
Local app	S-Miles Toolkit
Power Supply (Adapter)	
Type	External adapter
Adapter input voltage/frequency	100 to 240 V AC / 50 or 60 Hz
Adapter output voltage/current	5V / 2A
Power consumption (DTU)	Typ. 1.0W / Max. 5.0W
Mechanical Data	
Ambient temperature range (°C)	-20 to +55
Dimensions (W × H × D [mm])	143 × 33 × 12.5
Weight (g)	43
Installation option	Direct plug-in
Compliance	
Certificate	CE, RCM, Anatel
Microinverter Compatibility	
Microinverter model	HMS series, HMT series, MiS series

^{*1} This depends on the installation environment. Please refer to user manual for more details.

DATA TRANSFER UNIT

Hoymiles gateway DTU-WLite-S is a data transfer unit which collects information and data of PV microinverters via Sub-1G wireless solution and sends them to S-Miles Cloud, Hoymiles Monitoring Platform, using Wi-Fi communication. With small size and easy installation, DTU-WLite-S has been specially adapted for residential PV systems. Users can easily read module-level data and alarms, and realize remote operation and maintenance of the microinverter system on S-Miles Cloud at any time and any place.

DTU-WLite-S



Features

- 01

Module-level monitoring and data storage
- 02

Plug and play, easy installation
- 03

Lightweight and compact design
- 04

Real-time microinverter data and alarm on S-Miles Cloud
- 05

Sub-1G wireless solution with microinverter
- 06

Remote system management on S-Miles Cloud

Technical Specifications

Model	DTU-WLite-S
Communication to Microinverter	
Type	Sub-1G
Maximum distance (open space)	400 m
Monitoring data limit from solar panels*	4
Communication to S-Miles Cloud	
Wireless standard	802.11 b/g/n
Radio band	2.4 GHz
Sample rate	Per 15 minutes
Interaction	
LED	LED Indicator
Local App	S-Miles Installer
Power Supply (Adapter)	
Type	External adapter
Adapter input voltage/frequency	100 to 240 V AC / 50 or 60Hz
Adapter output voltage/current	5V / 2A
Power consumption (DTU)	Typ. 1.0W / Max. 5.0W
Mechanical Data	
Ambient temperature range (°C)	-20 to +55
Dimensions (W × H × D [mm])	143 × 33 × 12.5
Weight (g)	43
Installation option	Direct plug-in
Compliance	
Certificate	CE
Microinverter Compatibility	
Microinverter model	HMS series, HMT series, MiS series

* This depends on the installation environment. Please refer to user manual for more details.

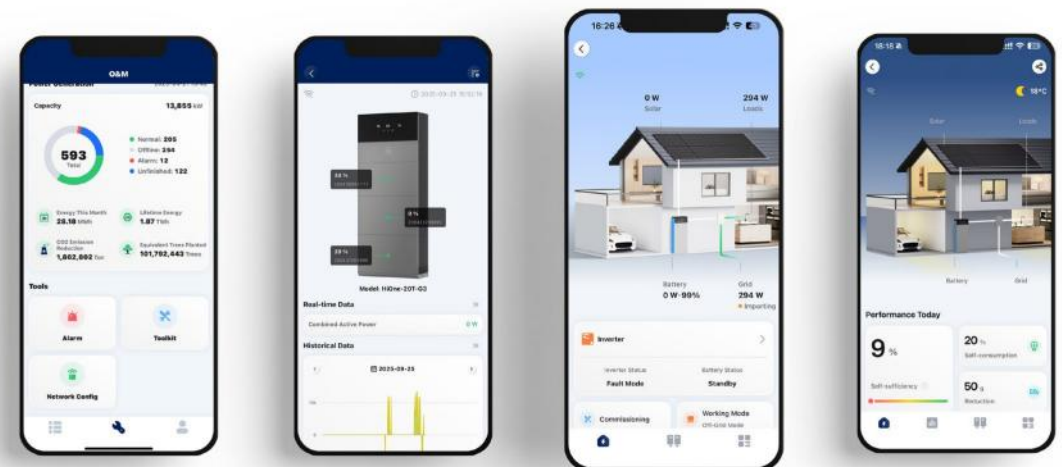
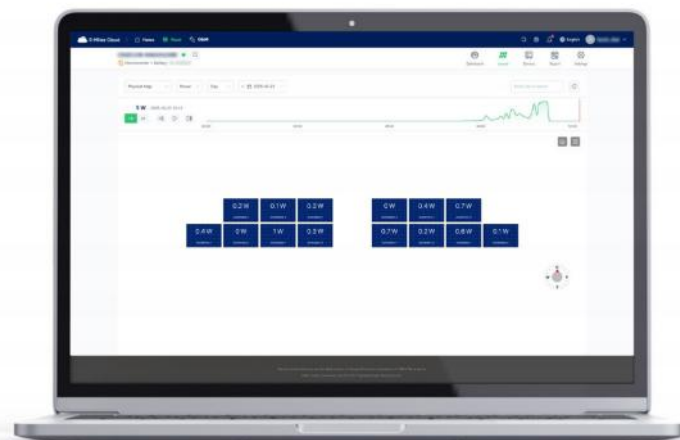


S-Miles Cloud

- Module level monitoring
- Individual MPPT
- Easy to operation and maintain the system

Available:

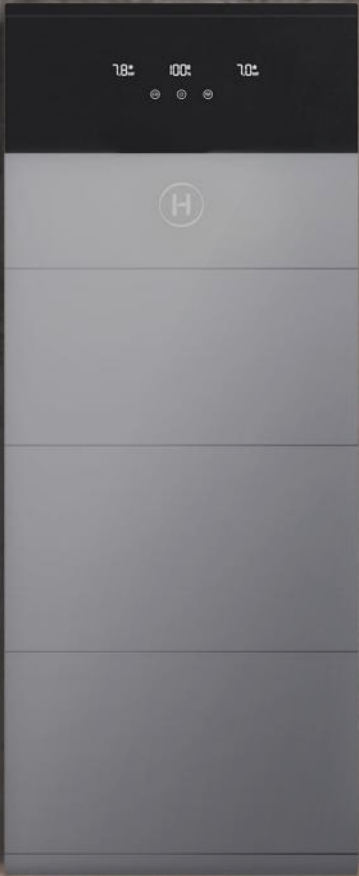
- ✓ Webpage
- ✓ APP- Android / IOS



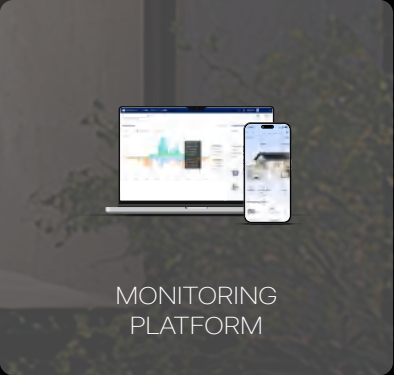
RESIDENTIAL SCENARIO

All-in-One Solution

Hoymiles offers an all-in-one solar and storage system for residential users, integrating an inverter, battery, and V2X module. With its highly integrated and modular design, the system simplifies installation and configuration, enhances energy conversion efficiency, and ensures greater energy independence for homes.



What Hoymiles Offers



SOLUTION HIGHLIGHTS

All-in-One Design

Integrates inverter, EMS, battery, and V2X EV charger into one compact, seamless system.

Upgrade with Ease

Supports mix-and-match expansion of new and existing batteries, with up to 64 kWh capacity per unit.

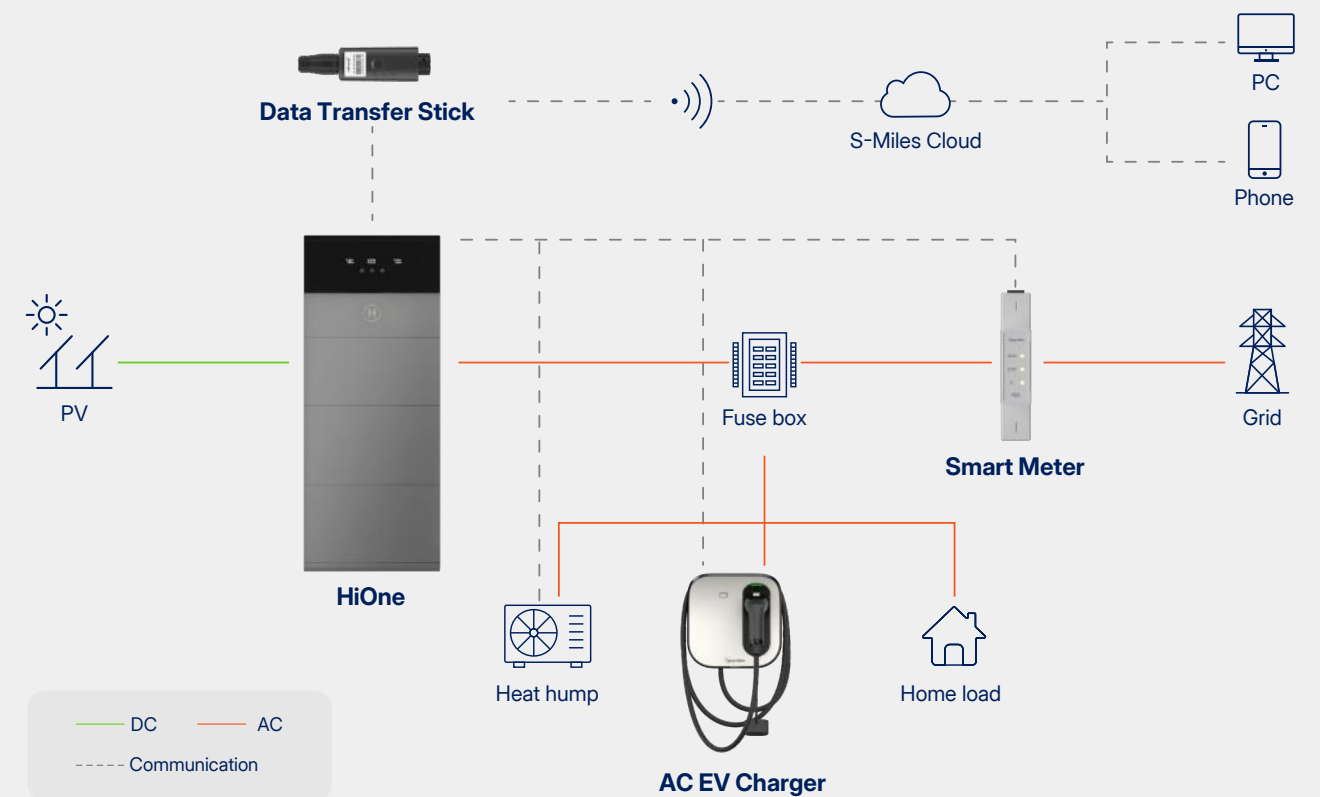
Install at Top Speed

Plug-and-play connections and a stackable battery design make installation effortless.

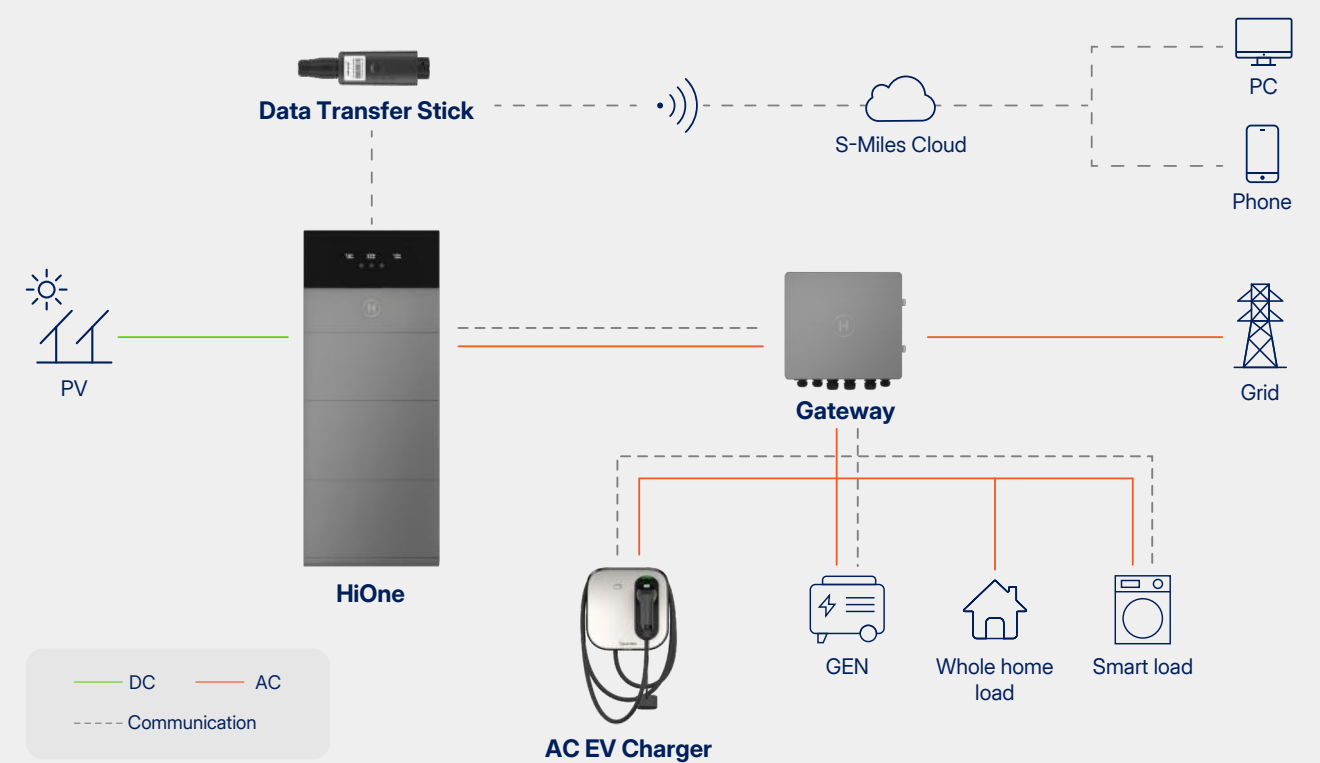
Power Without Interruption

An additional smart gateway ensures 0 ms power switchover during outages for continuous operation.

Single Unit Solution



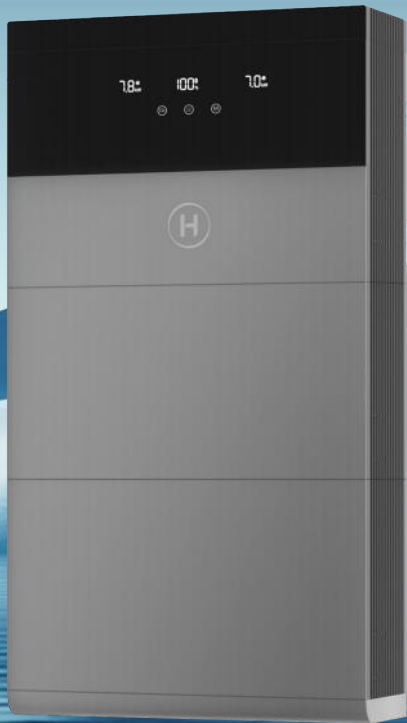
Whole Home Backup Solution



HOYMILES HIONE - INVERTER

Hoymiles launches a series of all-in-one energy storage inverters designed for residential and small C&I PV ESS systems. The hybrid inverter, battery, EMS, and V2X EV charger are integrated into one unit to provide users with a comprehensive PV ESS solution. It has multiple working modes, supports parallel operation, and can connect to a heat pump, generator, etc., making it available in different application scenarios. It is highly reliable and can help users efficiently and independently use energy.

HiOne-(3.6-12)S-G3 | Single-phase



Features

- 01

DC/AC ratio up to 200%
- 02

Protection from bad weather with an IP66 design
- 03

Easy Installation with quick connector design and 5 minutes quick commissioning
- 04

Seamless backup power for the whole home and backup loads
- 05

Intelligent energy management supports multiple smart loads connection
- 06

S-Miles App supports multi-scenario display
- 07

Supports VPP or intelligent automatic electricity transaction
- 08

Integrated AC coupled solution optimizes management of energy storage and microinverters

Technical Specifications

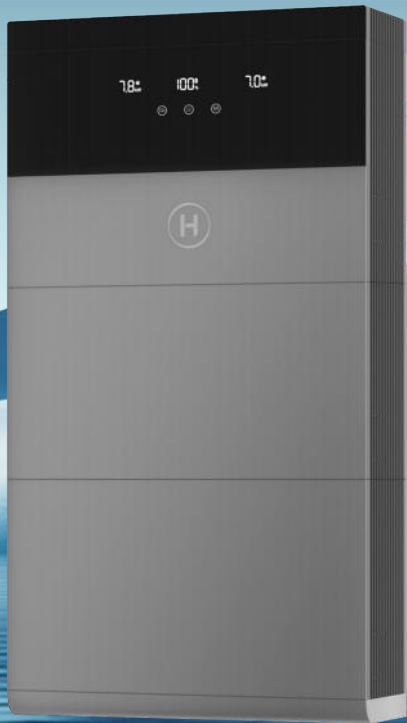
Model	HiOne-3.6S-G3	HiOne-4.6S-G3	HiOne-5S-G3	HiOne-6S-G3	HiOne-8S-G3	HiOne-10S-G3	HiOne-12S-G3
Battery							
Battery type	Li-ion						
Max. charging/discharging power (W)	3680/3864	4600/4850	5000/5250	6000/6300	8000/8400	10000/10500	12000/12600
Charging strategy for Li-ion battery	Self-adaption to BMS						
Communication	CAN						
Compatible battery model	HiOne-8B-G3						
PV Input							
Recommended max. PV power (W)	7200	9200	10000	12000	16000	20000	24000
Max. input voltage (V)	600						
Rated voltage (V)	380						
Start-up voltage (V)	70						
MPPT voltage range (V)	50-550						
Max. input current (A)	18/18	18/18/18				18/18/18/18	
Max. short circuit current (A)	27/27	27/27/27				27/27/27/27	
MPPT number/Max. input strings number	2/2	3/3				4/4	
AC Output							
Rated output power (W)	3680	4600	5000	6000	8000	10000	12000
Max. on-grid output apparent power (VA)	3680	4600	5500	6600	8800	11000	13200
Max. output current (A)	16.7	20.9	25.0	30.0	40.0	50.0	60.0
Max. off-grid output apparent power (VA) ⁽¹⁾	5520 (10s)	6900 (10s)	7500 (10s)	9000 (10s)	12000 (10s)	15000 (10s)	18000 (10s)
Grid form	L/N/PE						
Rated AC output voltage (V)	220/230/240						
Rated grid frequency (Hz)	50/60						
Power factor	>0.99 (0.8 leading-0.8 lagging)						
THDi (@rated output)	<3%						
Efficiency							
Max. efficiency	98%						
EU efficiency	97.5%						
Protection							
Anti-islanding protection	Integrated						
AC overcurrent protection	Integrated						
AC short circuit protection	Integrated						
AC overvoltage and undervoltage protection	Integrated						
Surge protection	AC Type II						
General							
Dimensions (W × H × D [mm])	620 × 360 × 255						
Weight (kg)	<27						
Mounting	Wall mounted/Floor standing						
Operating temperature (°C)	-30 to +65 (>45, derating)						
Relative humidity	0-95%, no condensation						
Cooling	Natural convection					Intelligent air cooling	
Topology	Non-isolation						
Altitude (m)	≤4000						
Protection degree	IP66						
Noise (dB)	<35					<55	
User interface	LED, App						
Communication	RS485, Bluetooth, Wi-Fi/Ethernet (optional)						

(1) It can be achieved when the inverter works with the HiBox.

HOYMILES HIONE - INVERTER

Hoymiles launches a series of all-in-one energy storage inverters designed for residential and small C&I PV ESS systems. The hybrid inverter, battery, EMS, and V2X EV charger are integrated into one unit to provide users with a comprehensive PV ESS solution. It has multiple working modes, supports parallel operation, and can connect to a heat pump, generator, etc., making it available in different application scenarios. It is highly reliable and can help users efficiently and independently use energy.

HiOne-(8-20)T-G3 | Three-phase



Features

- 01

DC/AC ratio up to 200%
- 02

Protection from bad weather with an IP66 design
- 03

Easy Installation with quick connector design and 5 minutes quick commissioning
- 04

Seamless backup power for the whole home and backup loads
- 05

Intelligent energy management supports multiple smart loads connection
- 06

S-Miles App supports multi-scenario display
- 07

Supports VPP or intelligent automatic electricity transaction
- 08

Integrated AC coupled solution optimizes management of energy storage and microinverters

Technical Specifications

Model	HiOne-8T-G3	HiOne-10T-G3	HiOne-12T-G3	HiOne-16T-G3	HiOne-20T-G3
Battery					
Battery type	Li-ion				
Max. charging/discharging power (W)	8000/8400	10000/10500	12000/12600	16000/16800	20000/21000
Charging strategy for Li-ion battery	Self-adaption to BMS				
Communication	CAN				
Compatible battery model	HiOne-8B-G3				
PV Input					
Recommended max. PV power (W)	16000	20000	24000	32000	40000
Max. input voltage (V)	1000				
Rated voltage (V)	720				
Start-up voltage (V)	170				
MPPT voltage range (V)	150-950				
Max. input current (A)	20/20/20		20/20/20/20		
Max. short circuit current (A)	30/30/30		30/30/30/30		
MPPT number/Max. input strings number	3/3		4/4		
AC Output					
Rated output power (W)	8000	10000	12000	16000	20000
Max. on-grid output apparent power (VA)	8800	11000	13200	17600	22000
Max. output current (A)	13.3	16.7	20.0	26.7	33.3
Max. off-grid output apparent power (VA) ⁽¹⁾	12000 (10s)	15000 (10s)	18000 (10s)	24000 (10s)	30000 (10s)
Grid form	3L/N/PE				
Rated AC output voltage (V)	380/400				
Rated grid frequency (Hz)	50/60				
Power factor	>0.99 (0.8 leading-0.8 lagging)				
THDi (@rated output)	<3%				
Efficiency					
Max. efficiency	98.5%				
EU efficiency	98%				
Protection					
Anti-islanding protection	Integrated				
AC overcurrent protection	Integrated				
AC short circuit protection	Integrated				
AC overvoltage and undervoltage protection	Integrated				
Surge protection	AC Type II				
General					
Dimensions (W × H × D [mm])	620 × 360 × 255				
Weight (kg)	≤30				
Mounting	Wall mounted/Floor standing				
Operating temperature (°C)	-30 to +65 (>45, derating)				
Relative humidity	0-95%, no condensation				
Cooling	Natural convection		Intelligent air cooling		
Topology	Non-isolation				
Altitude (m)	≤4000				
Protection degree	IP66				
Noise (dB)	<35		<55		
User interface	LED, App				
Communication	RS485, Bluetooth, Wi-Fi/Ethernet (optional)				

(1) It can be achieved when the inverter works with the HiBox.

HOYMILES HIONE - BATTERY

Hoymiles launches a series of all-in-one energy storage inverters designed for residential and small C&I PV ESS systems. The hybrid inverter, battery, EMS, and V2X EV charger are integrated into one unit to provide users with a comprehensive PV ESS solution. It has multiple working modes, supports parallel operation, and can connect to a heat pump, generator, etc., making it available in different application scenarios. It is highly reliable and can help users efficiently and independently use energy.

HiOne-8B-G3



Inverter

V2X

Battery

Features

- 01

Lower LCOE with 314 Ah large capacity battery cell
- 02

Multilevel security system supports battery combination of new and old
- 03

Protection from bad weather with an IP66 design
- 04

Self-heating technology improves battery performance

Technical Specifications

Model	HiOne-8B-G3
Battery Data	
Battery type	LiFePO
Cell capacity (Ah)	314
Total energy (kWh)	8.04
Usable energy (kWh)	7.24
Max. charging/discharging power (kW)	4.02
Peak discharge power (kW)	6.03 (10s)
Communication	CAN
Recommended depth of discharge (DOD)	90%
Max. stackable quantity	4
Max. parallel quantity	2
General	
Dimensions (W × H × D [mm])	620 × 360 × 255 (single pack)
Weight (kg)	67
Mounting	Wall mounted/Floor standing
Installation environment	Indoor/Outdoor
Charging/discharging temperature (°C)	-20 to +55 (>45, derating)
Protection degree	IP66
Cooling	Natural convection
Altitude (m)	≤4000
Cycle life (25°C, 0.5C)	8000 Cycles

HOYMILES GATEWAY

The HiBox-100S-G3 is a smart gateway device that provides users with an excellent home backup solution. It can communicate with Hoymiles energy storage inverters, providing users with a comprehensive PV ESS solution, thus helping users in efficient and independent energy utilization.

HiBox-100S-G3 | Single-phase



Features

- 01

Supports whole home backup solution with a maximum output current of 100 A
- 02

Supports multi-source input and integrated control, ensuring an uninterrupted power supply
- 03

Supports seamless switch between on-grid mode and off-grid mode
- 04

Supports connection to smart loads such as heat pumps and EV chargers

Technical Specifications

Model	HiBox-100S-G3
AC Grid	
Grid form	L/N/PE
Rated AC input/output voltage (V)	220/230/240
Rated AC input/output frequency (Hz)	50/60
Max. input/output current (A)	100
AC INV	
Max. input number	2
Rated AC input voltage (V)	220/230/240
Max. input current (A)	50*2
Smart Load/GEN/AC INV	
Max. input number	1
Rated AC input voltage (V)	220/230/240
Max. input current (A)	100
Backup Load	
Rated AC input/output voltage (V)	220/230/240
Rated AC input/output frequency (Hz)	50/60
Max. input/output current (A)	100
General	
Dimensions (W × H × D [mm])	535 × 490 × 162
Weight (kg)	17.5
Mounting	Wall mounted
Operating temperature (°C)	-30 to +55
Relative humidity	0-95%, no condensation
Cooling	Natural convection
Altitude (m)	≤4000
Protection degree	IP54
Communication	RS485

HOYMILES GATEWAY

The HiBox-63T-G3 is a smart gateway device that provides users with an excellent home backup solution. It can communicate with Hoymiles energy storage inverters, providing users with a comprehensive PV ESS solution, thus helping users in efficient and independent energy utilization.

HiBox-63T-G3 | Three-phase



Features

- 01

Supports whole home backup solution with a maximum output current of 63 A
- 02

Supports multi-source input and integrated control, ensuring an uninterrupted power supply
- 03

Supports seamless switch between on-grid mode and off-grid mode
- 04

Supports connection to smart loads such as heat pumps and EV chargers

Technical Specifications

Model	HiBox-63T-G3
AC Grid	
Grid form	3L/N/PE
Rated AC input/output voltage (V)	380/400
Rated AC input/output frequency (Hz)	50/60
Max. input/output current (A)	63
AC INV	
Max. input number	2
Rated AC input voltage (V)	380/400
Max. input current (A)	32*2
Smart Load/GEN/AC INV	
Max. input number	1
Rated AC input voltage (V)	380/400
Max. input current (A)	63
Backup Load	
Rated AC input/output voltage (V)	380/400
Rated AC input/output frequency (Hz)	50/60
Max. input/output current (A)	63
General	
Dimensions (W × H × D [mm])	535 × 490 × 162
Weight (kg)	17.5
Mounting	Wall mounted
Operating temperature (°C)	-30 to +55
Relative humidity	0-95%, no condensation
Cooling	Natural convection
Altitude (m)	≤4000
Protection degree	IP54
Communication	RS485

HOYMILES ELECTRIC ENERGY METER

The DIN-rail mounted multifunctional electric energy meter with external current transformers (CTs) is an intelligent instrument. Designed for new energy power generation systems, such as photovoltaic grid-tied systems, microinverter systems, energy storage systems, and ACcoupled systems, it is characterized by high accuracy, small size, fast response, and easy installation. It can sample, meter, and monitor power parameters, and transmit the data to inverters. Based on real-time power and accumulated electrical energy, it supports export management, regulates power generation, and can manage the battery charging and discharging processes. Additionally, it supports bidirectional metering. These functions can optimize the energy management of residential energy storage systems.

Meter-G3



Features

- 01

Supports CT reverse detection and adaptive phase sequence
- 02

Features two CT terminals for flexible application in AC coupled systems
- 03

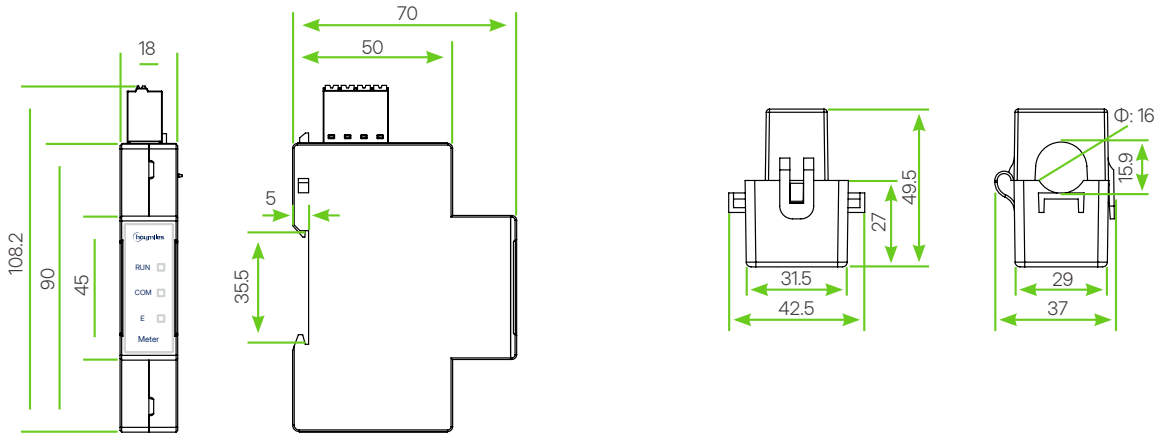
Uses CTs with RJ45 plugs to simplify the installation process
- 04

Compatible with 120 A/40 mA CT

Technical Specifications

Model	Meter-1S-G3	Meter-2S-G3	Meter-1T-G3	Meter-2T-G3
Basic Data				
Grid type	Single-phase		Three-phase four-wire	
Rated input voltage (V)	230		3 × 230/400	
Input voltage range (V)	230±20%		3 × 230/400±20%	
Overload voltage (V)	1.2 times rating (continuous)/2 times rating (1s)			
Rated input current (A)	120			
Overload current (A)	1.2 times rating (continuous)/2 times rating (1s)			
Power consumption (VA)	<0.2			
Grid frequency (Hz)	50 (±0.5%)			
Response rate	≤100 ms (voltage, current, power) ≤1s (electrical energy)			
Measurement Accuracy				
Voltage	±0.5%			
Current	±0.5%			
Active power	±0.5%			
Reactive power	±0.5%			
Apparent power	±0.5%			
Active energy	Class B (split-core current transformer)			
Reactive energy	Class 2			
Electromagnetic Compatibility				
Electrostatic discharge immunity	Class III			
Electrical fast transient burst immunity	Class IV			
Surge (shock) immunity	Class IV			
Safety				
Power frequency withstand voltage (Vac)	3000, 1 min (between communication and signal input)			
Insulation resistance (MΩ)	>100 (input and output terminals to enclosure)			
Communication				
Interface	RS485			
Communication protocol	Modbus RTU			
Communication address range	Modbus RTU: 1-247			
Baud rate (bps)	1200-38400			
Environment				
Operating temperature (°C)	-40 to +70			
Storage temperature (°C)	-40 to +70			
Relative humidity	≤95%, no condensation			
Altitude (m)	≤2000			
Mechanical Data				
Dimensions (W × H × D [mm])	18 × 108.2 × 70			
Weight (kg)	63.15			
Mounting	DIN rail			
Protection degree	IP20			

Unit: mm



Electric Energy Meter

CT-120 A/40 mA

HOYMILES DATA TRANSFER STICK

The DTS-G3 series Data Transfer Stick (DTS) is designed as a suitable option for the energy storage system. Its plug and play design simplifies the installation, and the built-in Bluetooth module makes the commissioning more convenient and efficient. Using the S-Miles App, you can establish a local connection via Bluetooth to operate and maintain an energy storage system. The DTS-G3 series can also upload real-time data to the S-Miles Cloud via Wi-Fi or LAN communication. This enables you to remotely monitor, operate, and maintain an energy storage system.

DTS-G3



Features

- 01

Integrated to use, simply plug and play
- 02

IP66 protection
- 03

Stable and reliable data transmission
- 04

Intelligent monitoring management via S-Miles Cloud

Technical Specifications

Model		DTS-WL-G3
Basic Data		
Max. inverter supported		10
Data upload cycle		30s to 600s
LED Indicator		3
Connection Interface		USB
Configuration method		BLE App
Communication		
Bluetooth standard		BLE 5.0
Wi-Fi standard		IEEE 802.11 b/g/n/ax @2.4 GHz
Ethernet standard		10/100 Mbps self-adaption Max. distance of network cable: 100 m
Power		
Operating voltage		5 Vdc
Power consumption		<5 W
General		
Dimensions (W × H × D)		49.2 × 183.7 × 34.9 mm (1.9 × 7.2 × 1.4 in)
Weight		105 g (0.23 lb)
Installation		Plug and play
Environment		
Operating temperature range		-25°C to +65°C (-13°F to +149°F)
Relative humidity		0-95%, no condensation
Operating altitude		≤4000 m (13123 ft)
Protection degree		IP66 ⁽¹⁾
Certifications and Standards		
Certificate		CE, PSTI, EN 18031, FCC, IC, UKrSEPRO, NTC, TA, NBTC, WPC

(1) The requirements of IP66 can be met only when the DTS is used with an inverter.

Model		DTS-WiFi-G3
Basic Data		
Max. inverter supported		10
Data upload cycle		30s to 600s
LED Indicator		3
Connection Interface		USB
Configuration method		BLE App
Communication		
Bluetooth standard		BLE 5.0
Wi-Fi standard		IEEE 802.11 b/g/n/ax @2.4 GHz
Power		
Operating voltage		5 Vdc
Power consumption		<5 W
General		
Dimensions (W × H × D)		49.2 × 126.8 × 33.2 mm (1.9 × 5.0 × 1.3 in)
Weight		82 g (0.18 lb)
Installation		Plug and play
Environment		
Operating temperature range		-25°C to +65°C (-13°F to +149°F)
Relative humidity		0-95%, no condensation
Operating altitude		≤4000 m (13123 ft)
Protection degree		IP66 ⁽¹⁾
Certifications and Standards		
Certificate		CE, PSTI, EN 18031, FCC, IC, UKrSEPRO, NTC, TA, NBTC, WPC

(1) The requirements of IP66 can be met only when the DTS is used with an inverter.

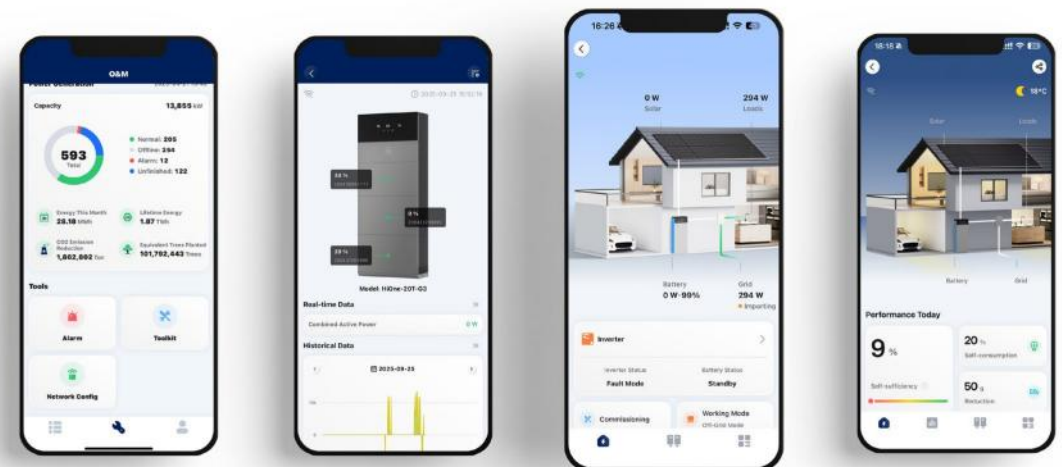
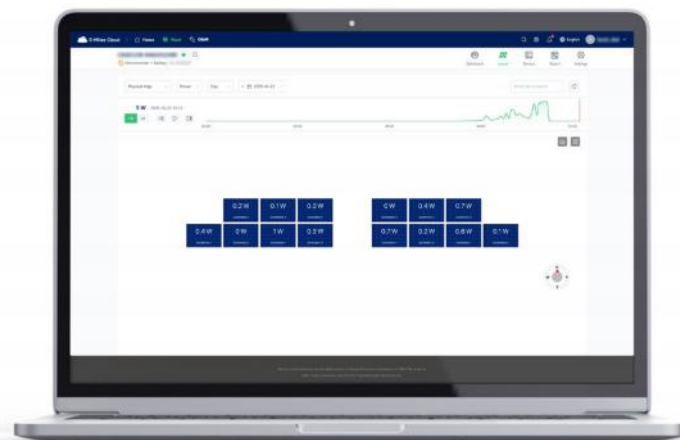


S-Miles Cloud

- Module level monitoring
- Individual MPPT
- Easy to operation and maintain the system

Available:

- ✓ Webpage
- ✓ APP- Android / IOS



RESIDENTIAL SCENARIO

Solar-Storage-EV Solution

Hoymiles provides flexible and customizable solar-storage-charging solutions for residential users, integrating energy storage inverters, batteries, EV chargers, and cloud platforms. This reduces complex component selection, greatly improves system efficiency, and ensures unified, efficient after-sales service.

What Hoymiles Offers



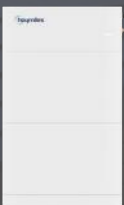
HYBRID
INVERTER



AC-COUPLED
INVERTER



HIGH VOLTAGE
BATTERY



LOW VOLTAGE
BATTERY



EV CHARGER



SMART METER



DATA TRANSFER
STICK



MONITORING
PLATFORM

SOLUTION HIGHLIGHTS

Flexible Retrofit

Fully compatible with existing PV inverters for fast AC-coupled storage upgrades.

Uninterrupted Power

UPS-level switching (<10ms) ensures critical loads stay powered at all times.

Smart Management

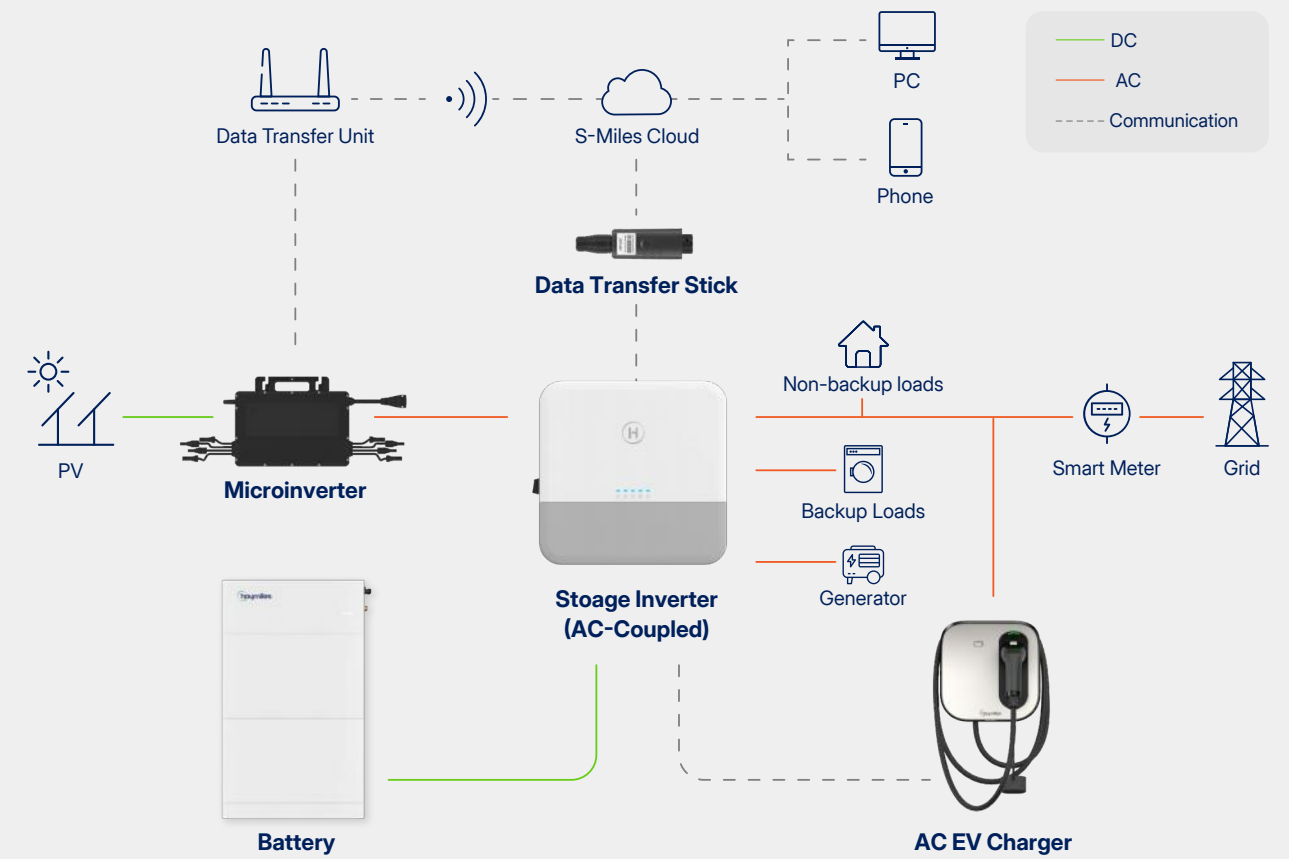
Intelligent EMS integrates fault alerts, smart load control, and diesel generator coordination.

Performs in Any Scenario

16A MPPT supports mainstream modules, maximizing yield in complex setups.



AC-coupled Solution



Hybrid Solution



HOYMILES HYBRID INVERTER

The HIS-(3-6)L-G3 series is a high-performance single-phase hybrid inverter with excellent reliability, including power classes ranging from 3 kW to 6 kW.

The intelligent EMS function supports self-consumption mode, economy mode, backup mode, peak shaving mode, and time of use mode for multi-scenario applications.

Monitoring management through S-Miles Cloud allows users to remotely diagnose and track system performance over time, maximizing the total solar power production and battery utilization.

HIS-(3-6)L-G3



Features

- 01

Easy installation and space-saving with ultrathin and ultralight design
- 02

Double MPPT tracker, up to 18 A MPPT current
- 03

UPS-level 0 ms switching time
- 04

Support multiple intelligent working modes, including Peak Shaving and 8×24h Time of Use
- 05

Integrated AI energy management with generator, heat pump, and smart load
- 06

Max. 10 inverters in parallel for on-grid and off-grid system extension

Technical Specifications

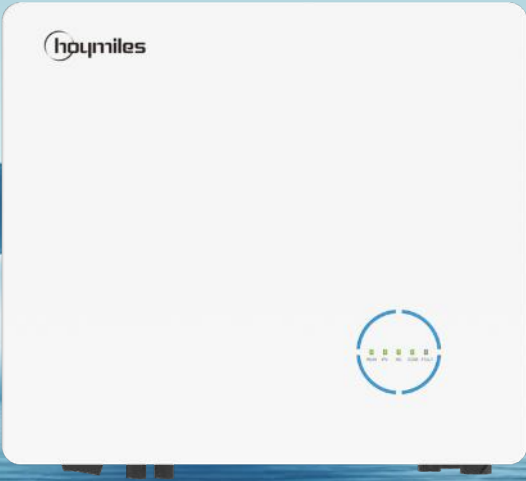
Model	HIS-3L-G3	HIS-3.6L-G3	HIS-4.6L-G3	HIS-5L-G3	HIS-6L-G3
Battery					
Battery type	Li-ion/Lead-acid				
Battery voltage range (V)	40-60				
Max. charging/discharging current (A)	75/75	90/90	115/115	120/120	135/135
Max. charging/discharging power (W)	3000/3150	3600/3800	4600/4850	5000/5250	6000/6300
Charging strategy for Li-ion battery	Self-adaption to BMS				
Charging curve	3 Stages/Equalization				
External temperature sensor	Optional				
Communication	CAN				
PV Input					
Recommended max. PV power (W)	6000	7200	9200	10000	12000
Max. input voltage (V)	550				
Rated voltage (V)	360				
Start-up voltage (V)	100				
MPPT voltage range (V)	90-500				
Max. input current (A)	18/18				
Max. short circuit current (A)	27/27				
MPPT number/Max. input strings number	2/2				
AC Input and Output (On-grid)					
Rated output power (W)	3000	3680	4600	5000	6000
Max. output apparent power (VA)	3300	3680	4600	5500	6600
Max. continuous AC bypass current (A)	50				
Grid form	L/N/PE				
Rated AC output voltage/Range (V)	220/154-264, 230/161-276, 240/168-288				
Rated grid frequency (Hz)	50/60				
Max. output current (A)	15	16.7	20.9	25	30
Power factor	>0.99 (0.8 leading-0.8 lagging)				
AC Output (Backup)					
Rated output power (W)	3000	3680	4600	5000	6000
Max. output apparent power (VA)	6000, 10s	7360, 10s	9200, 10s	10000, 10s	12000, 10s
Back-up switch time (ms)	0				
Grid form	L/N/PE				
Rated output voltage (V)	220/230/240				
Rated output frequency (Hz)	50/60				
Max. continuous output current (A)	13.6	16.7	20.9	22.7	27.3
THDv (@linear load)	<3%				
Efficiency					
MPPT efficiency	99.9%				
Max. efficiency	97.7%				
EU efficiency	97.0%				
Protection					
Anti-islanding protection	Integrated				
PV string input reverse polarity protection	Integrated				
Insulation resistor detection	Integrated				
Residual current monitoring unit	Integrated				
AC overcurrent protection	Integrated				
AC short circuit protection	Integrated				
AC overvoltage and undervoltage protection	Integrated				
Surge protection	DC Type II/AC Type II				
General					
Dimensions (W × H × D [mm])	506 × 495 × 99				
Weight (kg)	17				
Mounting	Wall mounted				
Operating temperature (°C)	-25 to +65 (>45, derating)				
Relative humidity	0-95%, no condensation				
Cooling	Natural convection				
Topology (Solar/Battery)	Transformerless/High-frequency isolation				
Altitude (m)	≤4000				
Protection degree	IP66				
Noise (dB)	<35				
User interface	LED, App				
Digital input/output	DRM, 2 × DI, 2 × DO				
Communication	RS485, Wi-Fi/Ethernet (optional)				
Certifications and Standards					
Grid connection standard	G98, G99, G100, EN 50549-1/-10, NF EN 50549-1/-10, CEI 0-21, PEA, MEA, IEC 62116, IEC 61727, IEC 60068, IEC 61683, DEWA				
Safety/EMC standard	IEC 62109-1/-2, EN 61000-6-1/-2/-3/-4				

SINGLE-PHASE HYBRID INVERTER

The HYS-LV Series is a high-performance single-phase hybrid inverter with excellent reliability, including power classes ranging from 3.0 kW to 6.0 kW.

The intelligent EMS function supports self-consumption mode, economy mode, and backup mode for multi-scenario applications. Monitoring management through S-Miles Cloud allows users to remotely diagnose and track system's performance over time, maximizing the total solar power production and battery utilization.

HYS-(3-6)LV- EUG1



Features

- 01

Intelligent export limitation
- 02

Double MPPT tracker, up to 14 A MPPT current
- 03

Compatible with multiple batteries, providing users with more choices
- 04

UPS level switching time <10 ms
- 05

DC/AC ratio up to 150%
- 06

Ultralight for easy installation and space-saving
- 07

Built-in dry contact flexibly set to earth fault alarm, load control, or generator control
- 08

Max. 10 parallel inverters

Technical Specifications

Model	HYS-3.0LV-EUG1	HYS-3.6LV-EUG1	HYS-4.6LV-EUG1	HYS-5.0LV-EUG1	HYS-6.0LV-EUG1
Battery					
Battery type	Li-ion/Lead-acid				
Battery voltage range (V)	40-60				
Max. charge/discharge current (A)	75/75	90/90	100/100	100/100	100/100
Max. charge/discharge power (W)	3000/3000	3600/3600	4600/4600	5000/5000	5000/5000
Charging strategy for Li-ion battery	Self-adaption to BMS				
Charging curve	3 Stages/Equalization				
External temperature sensor	Optional				
Communication	CAN				
PV Input					
Recommended max. PV power (W)	4500	6000	7500	7500	7500
Max. input voltage (V)	550				
Rated voltage (V)	360				
Start-up voltage (V)	150				
MPPT voltage range (V)	125-500				
Max. input current (A)	14	14/14	14/14	14/14	14/14
Max. short circuit current (A)	17	17/17	17/17	17/17	17/17
MPPT number/Max. input strings number	1/1	2/2	2/2	2/2	2/2
AC Input and Output (On-grid)					
Rated output power (W)	3000	3680	4600	5000 ⁽¹⁾	6000 ⁽¹⁾
Max. output apparent power (VA)	3000	3680	4600 ⁽²⁾	5000 ^{(1) (2)}	6000 ^{(1) (2)}
Max. input power (W)	6000	7360	7360	7360	7360
Grid form	L/N/PE				
Rated AC output voltage/Range (V)	230, 161-276				
Rated grid frequency (Hz)	50/60				
Max. output current (A)	13.0	16.0	20.0	21.7	26.0
Max. input current (A)	26.1	32.0	32.0	32.0	32.0
Power factor	>0.99 (0.8 leading ... 0.8 lagging)				
THDi (@rated output)	<3%				
AC Output (Off-grid)					
Rated output power (W)	3000	3680	4600	5000	6000
Max. output apparent power (VA) ⁽³⁾	6000, 10s	7360, 10s	9200, 10s	10000, 10s	10000, 10s
Back-up switch time (ms)	<10				
Grid form	L/N/PE				
Rated output voltage (V)	230				
Rated output frequency (Hz)	50/60				
Max. continuous output current (A)	13.0	16.0	20.0	21.7	26.0
THDv (@linear load)	<3%				
Efficiency					
MPPT efficiency	99.9%	99.9%	99.9%	99.9%	99.9%
Max. efficiency	97.6%	97.6%	97.6%	97.6%	97.6%
EU efficiency	97.0%	97.0%	97.0%	97.0%	97.0%
Max. battery discharge to AC efficiency	95.0%	95.0%	95.0%	95.0%	95.0%
Protection					
Anti-islanding protection	Integrated				
PV string input reverse polarity protection	Integrated				
Insulation resistor detection	Integrated				
Residual current monitoring unit	Integrated				
AC over current protection	Integrated				
AC short current protection	Integrated				
AC overvoltage and undervoltage protection	Integrated				
Surge protection	DC Type II/AC Type III				
General					
Dimensions (W × H × D [mm])	502 × 461 × 202				
Weight (kg)	24				
Mounting	Wall mounting				
Operating temperature (°C)	-25 to +65 (>45, derating)				
Relative humidity	0-95%, no condensing				
Cooling	Natural convection				
Topology (Solar/Battery)	Transformerless/High-frequency isolation				
Altitude (m)	≤2000				
Protection degree	IP65				
Noise (dB)	<40				
User interface	LED, App				
Digital input/output	DRM, 1 × DI, 2 × DO				
Communication	RS485, Wi-Fi/Ethernet/4G (optional) ⁽⁴⁾				
Certifications and Standards					
Grid connection standard	EN 50549, VDE-AR-N 4105, VFR: 2019, TOR Erzeuger Type A, RD647, NTS (SENP), CEI 0-21 2019:04, C10-11 Type A				
Safety/EMC standard	IEC 62109-1/-2, EN 61000-6-1/-3				

(1) 4600 for VDE-AR-N 4105 & VDE0126-1-1
(2) Max. output apparent power 3680 VA for TOR Erzeuger Type A
(3) Can be achieved only if PV and battery power are sufficient.
(4) The DTS-4G solution will be coming soon.

SINGLE-PHASE HYBRID INVERTER

The HYS-LV-EUG2 Series is a new generation single-phase hybrid inverter with excellent reliability, including power classes ranging from 8.0 kW to 12.0 kW.

The intelligent EMS function supports self-consumption mode, economy mode, and backup mode for multi-scenario applications. Monitoring management through Hoymiles Cloud allows users to remotely diagnose and track system's performance over time, maximizing the total solar power production and battery utilization.

HYS-(8.0-12.0)LV- EUG2



Features

- 01

Intelligent export limitation
- 02

Double MPPT tracker, up to 32 A MPPT current
- 03

Compatible with multiple batteries, providing users with more choices
- 04

Seamless backup power for whole home or critical loads
- 05

DC/AC ratio up to 150%
- 06

Ultralight for easy installation and space-saving
- 07

Built-in dry contact flexibly set to earth fault alarm, load control, or generator control
- 08

Remote monitoring through S-Miles Cloud

Technical Specifications

Model	HYS-8.0LV-EUG2		HYS-10.0LV-EUG2		HYS-12.0LV-EUG2	
Battery						
Battery type	Li-ion/Lead-acid					
Battery voltage range (V)	40-60					
Max. charge/discharge current (A)	160/160		200/200		240/240	
Max. charge/discharge power (W)	8000/8000		10000/10000		12000/12000	
Charging strategy for Li-ion battery	Self-adaption to BMS					
Charging curve	3 Stages/Equalization					
External temperature sensor	Optional					
Communication	CAN					
PV Input						
Recommended max. PV power (W)	10400		13000		15600	
Max. input voltage (V)	550					
Rated voltage (V)	360					
Start-up voltage (V)	150					
MPPT voltage range (V)	125-500					
Max. input current (A)	32/32		32/32		32/32	
Max. short circuit current (A)	40/40		40/40		40/40	
MPPT number/Max. input strings number	2/4		2/4		2/4	
AC Input and Output (On-grid)						
Rated output power (W)	8000		10000		12000	
Max. output apparent power (VA)	8800		11000		13200	
Max. input power (W)	23000		23000		23000	
Grid form	L/N/PE					
Rated AC output voltage/Range (V)	220/230, 154-276					
Rated grid frequency (Hz)	50/60					
Max. output current (A)	38.3		47.8		57.4	
Max. input current (A)	100		100		100	
Power factor	>0.99 (0.8 leading ... 0.8 lagging)					
THDi (@rated output)	<3%					
AC Output (Off-grid)						
Rated output power (W)	8000		10000		12000	
Max. output apparent power (VA)	16000, 10s		20000, 10s		23000, 10s	
Back-up switch time (ms)	<10					
Grid form	L/N/PE					
Rated output voltage (V)	220/230					
Rated output frequency (Hz)	50/60					
Max. continuous output current (A)	34.8		43.5		52.2	
THDv (@linear load)	<3%					
Efficiency						
MPPT efficiency	99.9%		99.9%		99.9%	
Max. efficiency	97.6%		97.6%		97.6%	
EU efficiency	97.0%		97.0%		97.0%	
Max. battery discharge to AC efficiency	95.0%		95.0%		95.0%	
Protection						
Anti-islanding protection	Integrated					
PV string input reverse polarity protection	Integrated					
Insulation resistor detection	Integrated					
Residual current monitoring unit	Integrated					
AC over current protection	Integrated					
AC short current protection	Integrated					
AC overvoltage and undervoltage protection	Integrated					
Surge protection	DC Type II/AC Type III					
General						
Dimensions (W × H × D [mm])	502 × 740 × 202					
Weight (kg)	41					
Mounting	Wall mounting					
Operating temperature (°C)	-25 to +65 (>45, derating)					
Relative humidity	0-95%, no condensing					
Cooling	Smart cooling					
Topology (Solar/Battery)	Transformerless/High-frequency isolation					
Altitude (m)	≤2000					
Protection degree	IP65					
Noise (dB)	<40					
User interface	LED & APP					
Digital input/output	1 × DI, 2 × DO					
Max. parallel	10					
Communication	RS485, Wi-Fi/Ethernet/4G (optional) ⁽¹⁾					
Certifications and Standards						
Grid connection standard	EN 50549, NRS 097-2-1					
Safety/EMC standard	IEC 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4					

(1) The DTS-4G solution will be coming soon.

SINGLE-PHASE AC-COUPLED INVERTER

The HAS-LV-EUG1 Series is designed for retrofitting PV systems, including power classes ranging from 3.0 kW to 5.0 kW. It can be installed with existing PV inverters, forming an AC coupled system. The intelligent EMS function supports self-consumption mode, economy mode, and backup mode for multi-scenario applications. Moreover, the remote monitoring management through S-Miles Cloud allows users to track the full status of the system operation over time, maximizing power and energy utilization.

HAS-(3-5)LV-EUG1



Features

- 01

Intelligent export limitation
- 02

Compatible with multiple batteries, providing users with more choices
- 03

UPS level switching time <10 ms
- 04

Ultralight for easy installation and space-saving
- 05

Built-in dry contact flexibly set to earth fault alarm, load control, or generator control
- 06

Max. 10 parallel inverters

Technical Specifications

Model	HAS-3.0LV-EUG1	HAS-3.6LV-EUG1	HAS-4.6LV-EUG1	HAS-5.0LV-EUG1
Battery				
Battery type	Li-ion/Lead-acid			
Battery voltage range (V)	40-60			
Max. charge/discharge current (A)	75/75	90/90	100/100	100/100
Max. charge/discharge power (W)	3000/3000	3600/3600	4600/4600	5000/5000
Charging strategy for Li-ion battery	Self-adaption to BMS			
Charging curve	3 Stages/Equalization			
External temperature sensor	Optional			
Communication	CAN			
AC Input and Output (On-grid)				
Rated output power (W)	3000	3680	4600	5000 ⁽¹⁾
Max. output apparent power (VA)	3000	3680	4600 ⁽²⁾	5000 ^{(1) (2)}
Max. input power (W)	6000	7360	7360	7360
Grid form	L/N/PE			
Rated AC output voltage/Range (V)	230, 161-276			
Rated grid frequency (Hz)	50/60			
Max. output current (A)	13.0	16.0	20.0	21.7
Max. input current (A)	26.1	32.0	32.0	32.0
Power factor	>0.99 (0.8 leading ... 0.8 lagging)			
THDi (@rated output)	<3%			
AC Output (Off-grid)				
Rated output power (W)	3000	3680	4600	5000
Max. output apparent power (VA)	3300, 10s	4048, 10s	5060, 10s	5500, 10s
Back-up switch time (ms)	<10			
Grid form	L/N/PE			
Rated output voltage (V)	230			
Rated output frequency (Hz)	50/60			
Max. continuous output current (A)	13.0	16.0	20.0	21.7
THDv (@linear load)	<3%			
Efficiency				
Max. efficiency	95.2%	95.2%	95.2%	95.2%
Protection				
Anti-islanding protection	Integrated			
AC over current protection	Integrated			
AC short current protection	Integrated			
AC overvoltage and undervoltage protection	Integrated			
Surge protection	DC Type II/AC Type III			
General				
Dimensions (W × H × D [mm])	502 × 461 × 202			
Weight (kg)	21			
Mounting	Wall mounting			
Operating temperature (°C)	-25 to +65 (>45, derating)			
Relative humidity	0-95%, no condensing			
Cooling	Natural convection			
Topology (Battery)	High-frequency isolation			
Altitude (m)	≤2000			
Protection degree	IP65			
Noise (dB)	<40			
User interface	LED, App			
Digital input/output	DRM, 1 × DI, 2 × DO			
Communication	RS485, Wi-Fi/Ethernet/4G (optional) ⁽³⁾			
Certifications and Standards				
Grid connection standard	EN 50549, VDE-AR-N 4105, VFR: 2019, TOR Erzeuger Type A			
Safety/EMC standard	IEC 62109-1/-2, IEC 62477-1, EN 61000-6-1/-3			

(1) 4600 for VDE-AR-N 4105 & VDE0126-1-1
(2) Max. output apparent power 3680 VA for TOR Erzeuger Type A
(3) The DTS-4G solution will be coming soon.

THREE-PHASE HYBRID INVERTER

The HIT-(5-20)L-G3 series is a high-performance three-phase hybrid inverter with excellent reliability, including power classes ranging from 5 kW to 20 kW.

The intelligent EMS function supports self-consumption mode, economy mode, backup mode, peak shaving mode, and time of use mode for multi-scenario applications.

Monitoring management through S-Miles Cloud allows users to remotely diagnose and track the individual system performance over time, offering superior energy production.

HIT-(5-20)L-G3



Features

- 01

4 MPPTs with 20 A input; DC/AC oversizing up to 200%
- 02

100% unbalanced output; max. output of each phase up to 50% rated power
- 03

Support multiple intelligent working modes including Peak Shaving and 8×24h Time of Use
- 04

Integrated AI energy management with generator, heat pump and smart load
- 05

Max. 10 inverters in parallel for on-grid and off-grid system extension
- 06

Ultralight for easy installation and space-saving; unique built-in meter solution with up to 50 A bypass

Technical Specifications

Model	HIT-5L-G3	HIT-6L-G3	HIT-8L-G3	HIT-10L-G3	HIT-12L-G3	HIT-15L-G3	HIT-17L-G3	HIT-20L-G3
Battery								
Battery type	Li-ion/Lead-acid							
Battery voltage range (V)	40-60							
Max. charge/discharge current (A)	120/120	150/150	190/190	210/210	250/250	300/300	350/350	350/350
Charging strategy for Li-ion battery	Self-adaption to BMS							
Charging curve	3 Stages/Equalization							
External temperature sensor	Optional							
Communication	CAN							
PV Input								
Recommended max. PV power (W)	10000	12000	16000	20000	24000	30000	34000	40000
Max. input voltage (V)	1000							
Rated voltage (V)	720							
Start-up voltage (V)	150							
MPPT voltage range (V)	150-900							
Max. input current (A)	20/20	20/20	20/20/20	20/20/20	20/20/20/20	20/20/20/20	20/20/20/20	20/20/20/20
Max. short circuit current (A)	30/30	30/30	30/30/30	30/30/30	30/30/30/30	30/30/30/30	30/30/30/30	30/30/30/30
MPPT number/Max. input strings number	2/2	2/2	3/3	3/3	4/4	4/4	4/4	4/4
AC Input and Output (On-grid)								
Rated output power (W)	5000	6000	8000	10000	12000	15000	17000	20000
Max. output apparent power (VA)	5500	6600	8800	11000	13200	16500	18700	22000
Grid form	3L/N/PE							
Rated AC output voltage/Range (V)	380/400, 266-480							
Rated grid frequency (Hz)	50/60							
Max. output current (A)	8.3	10	13.3	16.7	20	25	28.3	33.3
Power factor	>0.99 (0.8 leading ... 0.8 lagging)							
THDi (@rated output)	<3%							
AC Output (Back-up)								
Rated output power (W)	5000	6000	8000	10000	12000	15000	17000	20000
Max. output apparent power (VA) ^①	10000, 10s	12000, 10s	16000, 10s	20000, 10s	24000, 10s	30000, 10s	34000, 10s	40000, 10s
Back-up switch time (ms)	<10							
Grid form	3L/N/PE							
Rated output voltage (V)	380/400							
Rated output frequency (Hz)	50/60							
Max. continuous output current (A)	7.6	9.1	12.2	15.2	18.2	22.8	25.8	30.4
Max. continuous AC bypass current (A)	50							
THDv (@linear load)	<3%							
Efficiency								
MPPT efficiency	99.9%							
Max. efficiency	98.2%				98.5%			
EU efficiency	97.6%				98.0%			
Max. battery discharge to AC efficiency	95.7%							
Protection								
Anti-islanding protection	Integrated							
PV string input reverse polarity protection	Integrated							
Insulation resistor detection	Integrated							
Residual current monitoring unit	Integrated							
AC overcurrent protection	Integrated							
AC short current protection	Integrated							
AC overvoltage and undervoltage protection	Integrated							
AFCI	Optional							
Surge protection	DC Type II/AC Type II							
General								
Dimensions (W × H × D [mm]) ^②	539 × 696 × 232							
Weight (kg)	41							
Mounting	Wall mounting							
Operating temperature (°C)	-25 to +65 (>45, derating)							
Relative humidity	0-95%, no condensing							
Cooling	Natural convection				Smart fan			
Topology (Solar/Battery)	Transformerless/High-frequency isolation							
Altitude (m)	≤4000 (>2000, derating)							
Protection degree	IP66							
Noise (dB)	<45				<60			
User interface	LED, App							
Digital input/output	DRM, 2 × DI, 2 × DO							
Communication	RS485, Wi-Fi/Ethernet/4G (optional) ^③							

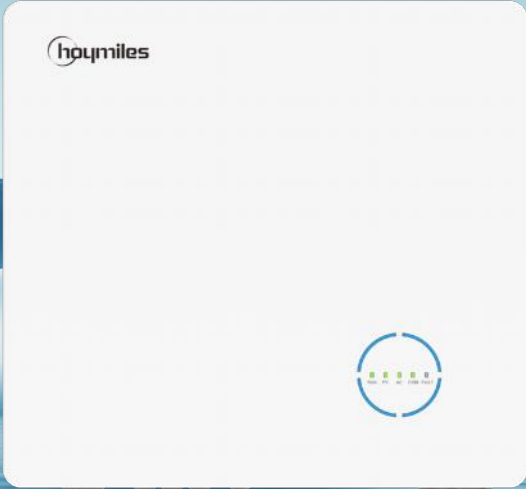
(1) Can be achieved only if PV and battery power are sufficient.
(2) Excluding Connectors and Brackets.
(3) The DTS-4G solution will be coming soon.

THREE-PHASE HYBRID INVERTER

The HYT-HV Series is a high-performance three-phase hybrid inverter with excellent reliability, including power classes ranging from 5.0 kW to 12.0 kW.

The intelligent EMS function supports self-consumption mode, economy mode, and backup mode for multi-scenario applications. Monitoring management through S-Miles Cloud allows users to remotely diagnose and track the individual system's performance over time, offering superior energy production.

HYT-(5-12)HV-EUG1



Features

- 01

Intelligent export limitation and 100% three-phase unbalanced output
- 02

Double MPPT tracker, up to 14 A MPPT current
- 03

Compatible with multiple batteries, providing users with more choices
- 04

UPS level switching time <10 ms
- 05

DC/AC ratio up to 150%
- 06

Ultralight for easy installation and space-saving
- 07

Built-in dry contact flexibly set to earth fault alarm, load control, or generator control
- 08

Max. 10 parallel inverters

Technical Specifications

Model	HYT-5.0HV-EUG1	HYT-6.0HV-EUG1	HYT-8.0HV-EUG1	HYT-10.0HV-EUG1	HYT-12.0HV-EUG1
Battery					
Battery type	Li-ion				
Battery voltage range (V)	170-600				
Max. charge/discharge current (A)	20/20	20/20	30/30	30/30	30/30
Max. charge/discharge power (W)	5000/5000	6000/6000	8000/8000	10000/10000	10000/10000
Charging strategy for Li-ion battery	Self-adaption to BMS				
Communication	CAN				
PV Input					
Recommended max. PV power (W)	7500	9000	12000	15000	15000
Max. input voltage (V)	1000				
Rated voltage (V)	720				
Start-up voltage (V)	250				
MPPT voltage range (V)	200-950				
Max. input current (A)	14/14	14/14	14/14	14/28	14/28
Max. short circuit current (A)	17/17	17/17	17/17	17/34	17/34
MPPT number/Max. input strings number	2/2	2/2	2/2	2/3	2/3
AC Input and Output (On-grid)					
Rated output power (W)	5000	6000	8000	10000	12000
Max. output apparent power (VA)	5500	6600	8800	11000 ⁽¹⁾	12000
Max. input power (W)	10000	12000	16000	16000	16000
Grid form	3L/N/PE				
Rated AC output voltage/Range (V)	380/400, 266-480				
Rated grid frequency (Hz)	50/60				
Max. output current (A)	8.3	10.0	13.3	16.7	17.4
Max. input current (A)	15.2	18.2	24.2	24.2	24.2
Power factor	>0.99 (0.8 leading ... 0.8 lagging)				
THDi (@rated output)	<3%				
AC Output (Off-grid)					
Rated output power (W)	5000	6000	8000	10000	12000
Max. output apparent power (VA)	10000, 10s	12000, 10s	16000, 10s	16000, 10s	16000, 10s
Back-up switch time (ms)	<10				
Grid form	3L/N/PE				
Rated output voltage (V)	380/400				
Rated output frequency (Hz)	50/60				
Max. continuous output current (A)	8.3	10.0	13.3	16.7	17.4
THDv (@linear load)	<3%				
Efficiency					
MPPT efficiency	99.9%	99.9%	99.9%	99.9%	99.9%
Max. efficiency	98.0%	98.0%	98.0%	98.0%	98.0%
EU efficiency	97.0%	97.1%	97.2%	97.4%	97.5%
Max. battery discharge to AC efficiency	97.5%	97.5%	97.5%	97.5%	97.5%
Protection					
Anti-islanding protection	Integrated				
PV string input reverse polarity protection	Integrated				
Insulation resistor detection	Integrated				
Residual current monitoring unit	Integrated				
AC over current protection	Integrated				
AC short current protection	Integrated				
AC overvoltage and undervoltage protection	Integrated				
Surge protection	DC Type II/AC Type III				
General					
Dimensions (W × H × D [mm])	502 × 486 × 202				
Weight (kg)	26.5				
Mounting	Wall mounting				
Operating temperature (°C)	-25 to +65 (>45, derating)				
Relative humidity	0-95%, no condensing				
Cooling	Natural convection				
Topology (Solar/Battery)	Transformerless/Transformerless				
Altitude (m)	≤2000				
Protection degree	IP65				
Noise (dB)	<40				
User interface	LED, App				
Digital input/output	DRM, 1 × DI, 2 × DO				
Communication	RS485, Wi-Fi/Ethernet/4G (optional) ⁽²⁾				
Certifications and Standards					
Grid connection standard	EN 50549, VDE-AR-N 4105, VFR: 2019, TOR Erzeuger Type A, RD647, NTS (SENP), CEI 0-21 2019:04				
Safety/EMC standard	IEC 62109-1/-2, EN 61000-6-1/-3				

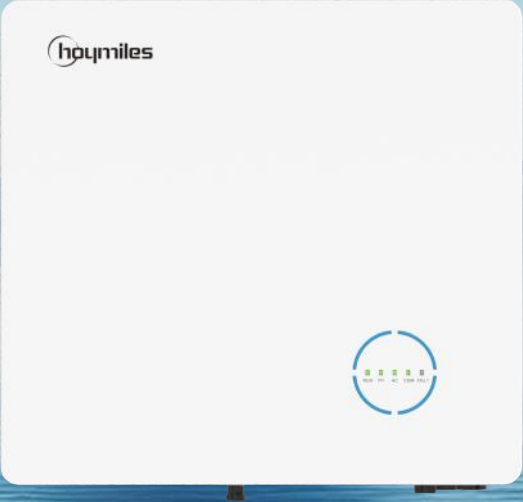
(1) Max. output apparent power 10000 VA for Belgium.

(2) The DTS-4G solution will be coming soon.

THREE-PHASE AC-COUPLED INVERTER

The HAT-HV-EUG1 Series is designed for retrofitting PV systems, including power classes ranging from 5.0 kW to 10.0 kW. It can be installed with existing PV inverters, forming an AC coupled system. The intelligent EMS function supports self-consumption mode, economy mode, and backup mode for multi-scenario applications. Moreover, the remote monitoring management through S-Miles Cloud allows users to track the full status of the system operation over time, maximizing power and energy utilization.

HAT-(5-10)HV-EUG1



Features

- 01

Intelligent export limitation and 100% three-phase unbalanced output
- 02

Compatible with multiple batteries, providing users with more choices
- 03

UPS level switching time <10 ms
- 04

Ultralight for easy installation and space-saving
- 05

Built-in dry contact flexibly set to earth fault alarm, load control, or generator control
- 06

Max. 10 parallel inverters

Technical Specifications

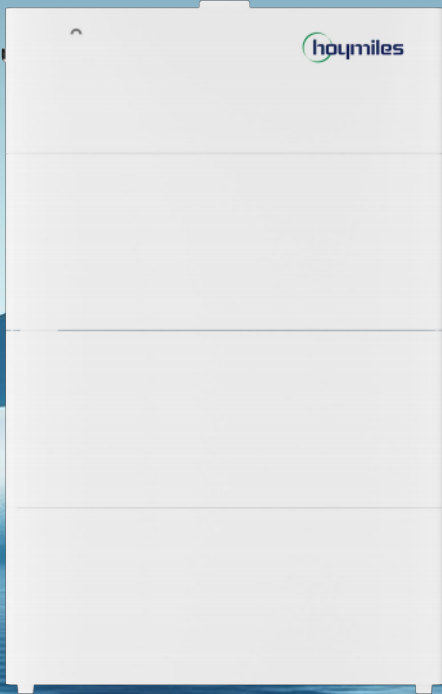
Model	HAT-5.0HV-EUG1	HAT-6.0HV-EUG1	HAT-8.0HV-EUG1	HAT-10.0HV-EUG1
Battery				
Battery type	Li-ion			
Battery voltage range (V)	170-600			
Max. charge/discharge current (A)	20/20	20/20	30/30	30/30
Max. charge/discharge power (W)	5000/5000	6000/6000	8000/8000	10000/10000
Charging strategy for Li-ion battery	Self-adaption to BMS			
Communication	CAN			
AC Input and Output (On-grid)				
Rated output power (W)	5000	6000	8000	10000
Max. output apparent power (VA)	5500	6600	8800	11000 ⁽¹⁾
Max. input power (W)	10000	12000	16000	16000
Grid form	3L/N/PE			
Rated AC output voltage/Range (V)	380/400, 266-480			
Rated grid frequency (Hz)	50/60			
Max. output current (A)	8.3	10.0	13.3	16.7
Max. input current (A)	15.2	18.2	24.2	24.2
Power factor	>0.99 (0.8 leading ... 0.8 lagging)			
THDi (@rated output)	<3%			
AC Output (Off-grid)				
Rated output power (W)	5000	6000	8000	10000
Max. output apparent power (VA)	10000, 10s	12000, 10s	16000, 10s	16000, 10s
Back-up switch time (ms)	<10			
Grid form	3L/N/PE			
Rated output voltage (V)	380/400			
Rated output frequency (Hz)	50/60			
Max. continuous output current (A)	8.3	10.0	13.3	16.7
THDv (@linear load)	<3%			
Efficiency				
Max. efficiency	97.5%	97.5%	97.5%	97.5%
Protection				
Anti-islanding protection	Integrated			
AC over current protection	Integrated			
AC short current protection	Integrated			
AC overvoltage and undervoltage protection	Integrated			
Surge protection	DC Type II/AC Type III			
General				
Dimensions (W × H × D [mm])	502 × 486 × 202			
Weight (kg)	23			
Mounting	Wall mounting			
Operating temperature (°C)	-25 to +65 (>45, derating)			
Relative humidity	0-95%, no condensing			
Cooling	Natural convection			
Topology (Battery)	Transformerless			
Altitude (m)	≤2000			
Protection degree	IP65			
Noise (dB)	<40			
User interface	LED, App			
Digital input/output	DRM, 1 × DI, 2 × DO			
Communication	RS485, Wi-Fi/Ethernet/4G (optional) ⁽²⁾			
Certifications and Standards				
Grid connection standard	EN 50549, VDE-AR-N 4105, VFR: 2019, TOR Erzeuger Type A			
Safety/EMC standard	IEC 62109-1/-2, IEC 62477-1, EN 61000-6-1/-3			

(1) Max. output apparent power 10000 VA for Belgium.
(2) The DTS-4G solution will be coming soon.

LOW VOLTAGE BATTERY

The LB-(5-20)S-G1 series is a type of deep cycle and high capacity LFP battery with improved safety, long lifespan, and optimized user experience. It is designed with an IP65 rating for more flexible and easier installation. It has superior performance with a capacity ranging from 5.12 kWh to 20.48 kWh for a single tower, which can meet residential electricity demand.

LB-(5-20)S-G1



Features

- 01

LFP with improved safety design
- 02

Suitable for indoor/outdoor installation with IP65 design
- 03

Quick connector design saves installation time
- 04

Stackable design without wiring
- 05

Flexible capacity options from 5.12 kWh to 20.48 kWh
- 06

Module level fire protection

Technical Specifications

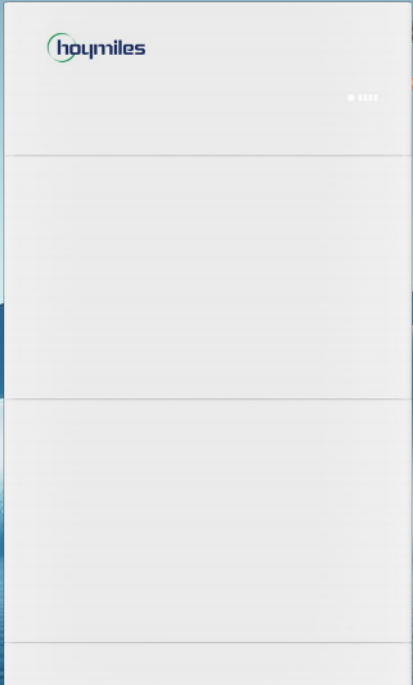
Model	LB-5S-G1	LB-10S-G1	LB-15S-G1	LB-20S-G1
System Data				
Battery type	LiFePO ₄			
Rated capacity (Ah)	100	200	300	400
Number of modules	1	2	3	4
Total energy (kWh)	5.12	10.24	15.36	20.48
Rated voltage (V)	51.2			
Voltage range (V)	44.8-57.6			
Rated charging/discharging current	0.5C			
Max. continuous charging/discharging current (A)	50	100	150	150
Max. charge/discharge power (kW)	2.56	5.12	7.68	7.68
Communication	CAN, RS485			
Recommended depth of discharge (DOD)	90%			
Protection				
Overvoltage and undervoltage protection	Integrated			
Overcurrent protection	Integrated			
Overtemperature and undertemperature protection	Integrated			
DC breaker	Integrated			
General				
Dimensions (W × H × D [mm])	665 × 503 × 200	665 × 770.7 × 200	665 × 1038.4 × 200	665 × 1306.1 × 200
Weight (kg)	61.5	109.5	157.5	205.5
Installation environment	Indoor/Outdoor			
Charging temperature (°C)	0 to +50			
Discharging temperature (°C)	-10 to +50			
Protection degree	IP65			
Cooling	Natural convection			
Altitude (m)	≤2000			
Cycle life (25°C, 0.5C)	6000 Cycles, @90% DOD, 70% EOL			
Certification	IEC 62619, UN 38.3, CE-EMC			
Warranty ⁽¹⁾	5-10 Years			

*Parallel connection between battery towers is not supported.
(1) Please refer to Hoymiles Warranty Terms & Conditions for more details.

LOW VOLTAGE BATTERY

The LB-(5-20)S-G2 series is a type of deep cycle and high capacity LFP battery with improved safety, long lifespan, and optimized user experience. It is designed with an IP66 rating for more flexible and easier installation. It has superior performance with a capacity ranging from 5.12 kWh to 20.48 kWh for a single tower and a maximum of 102.4 kWh for 5 towers in parallel, which can meet residential electricity demand.

LB-(5-20)S-G2



Features

- 01

LFP with improved safety design
- 02

Suitable for indoor/outdoor installation with IP66 design
- 03

Quick connector design saves installation time
- 04

Self-heating technology improves battery performance
- 05

Flexible capacity options from 5.12 kWh to 102.4 kWh
- 06

Module level fire protection

Technical Specifications

Model	LB-5S-G2		LB-10S-G2		LB-15S-G2		LB-20S-G2	
System Data								
Battery type	LiFePO ₄							
Rated capacity (Ah)	100		200		300		400	
Number of modules	1		2		3		4	
Total energy (kWh)	5.12		10.24		15.36		20.48	
Rated voltage (V)	51.2							
Voltage range (V)	44.8-58.4							
Rated charging/discharging current	0.5C							
Max. continuous charging/discharging current (A)	50		100		150		200	
Max. charge/discharge power (kW)	2.56		5.12		7.68		10.24	
Peak charge/discharge power (kW)	3.84 (10s)		7.68 (10s)		11.52 (10s)		15.36 (10s)	
Communication	CAN, RS485							
Recommended depth of discharge (DOD)	90%							
Max. scalability	5							
Protection								
Overvoltage and undervoltage protection	Integrated							
Overcurrent protection	Integrated							
Overtemperature and undertemperature protection	Integrated							
DC breaker	Integrated							
General								
System dimensions (including base) (W × H × D [mm]) ⁽¹⁾	640 × 690 × 145		640 × 1070 × 145		640 × 1450 × 145		640 × 1830 × 145	
System weight (including base) (kg) ⁽¹⁾	60.5		107		153.5		200	
Control box dimensions (W × H × D [mm])	640 × 240 × 145							
Control box weight (kg)	11							
Single PACK dimensions (W × H × D [mm])	640 × 380 × 145							
Single PACK weight (kg)	46.5							
Installation environment	Indoor/Outdoor							
Charging temperature (°C)	0 to +50							
Discharging temperature (°C)	-20 to +50							
Protection degree	IP66							
Cooling	Natural convection							
Altitude (m)	≤4000							
Cycle life (25°C, 0.5C)	6000 Cycles, @90% DOD, 70% EOL							
Certification	IEC 62619, UN 38.3, CE-EMC							
Warranty ⁽²⁾	5-10 Years							

(1) The actual dimensions and weight may differ. For details, please contact Hoymiles sales.
(2) Please refer to Hoymiles Warranty Terms & Conditions for more details.

LOW VOLTAGE BATTERY

The LB-5D-G2 is a type of deep cycle and high capacity LFP battery with improved safety, long lifespan, and optimized user experience. It is flexible to install with wall mounting and floor standing options. It has superior performance with a capacity of 5.12 kWh for a single unit and a maximum of 81.92 kWh for 16 batteries in parallel, which can meet the residential electricity demand.

LB-5D-G2



Features

- 01

LFP with improved safety design
- 02

A recommended depth of discharge (DOD) of 90% allows for more usable energy
- 03

Quick connector design for easy installation
- 04

Support wall mounting and floor standing installation
- 05

Flexible capacity options from 5.12 kWh to 81.92 kWh
- 06

Intelligent BMS with multiple protection functions

Technical Specifications

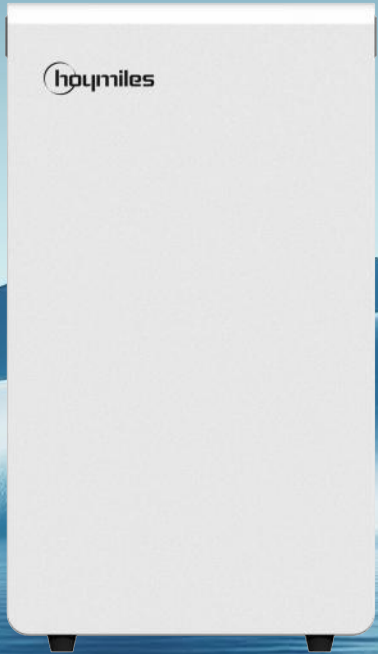
Model	LB-5D-G2
System Data	
Battery type	LiFePO ₄
Rated capacity (Ah)	100
Number of modules	1
Total energy (kWh)	5.12
Rated voltage (V)	51.2
Voltage range (V)	44.8-58.4
Rated charging/discharging current	0.5C
Max. continuous charging/discharging current (A)	50
Max. charge/discharge power (kW)	2.56
Peak charge/discharge power (kW)	3.84 (10s)
Communication	CAN, RS485
Recommended depth of discharge (DOD)	90%
Max. parallel	16
Protection	
Overvoltage and undervoltage protection	Integrated
Overcurrent protection	Integrated
Overtemperature and undertemperature protection	Integrated
General	
Dimensions (W × H × D [mm]) ⁽¹⁾	640 × 380 × 145
Weight (kg) ⁽¹⁾	45
Installation environment	Indoor
Mounting	Wall mounting/Floor standing
Charging temperature (°C)	0 to +50
Discharging temperature (°C)	-20 to +50
Protection degree	IP20
Cooling	Natural convection
Altitude (m)	≤2000
Cycle life (25°C, 0.5C)	6000 Cycles, @90% DOD, 70% EOL
Certification	IEC 62619, UN 38.3, CE-EMC
Warranty ⁽²⁾	5-10 Years

(1) The actual dimensions and weight may differ. For details, please contact Hoymiles sales.
(2) Please refer to Hoymiles Warranty Terms & Conditions for more details.

LOW VOLTAGE BATTERY

The LB-16D-G2 is a deep cycle high capacity LFP battery with improved safety, long lifespan, and optimized user experience. It has superior performance with a capacity of 16.08 kWh for a single unit and a maximum of 241 kWh for 15 batteries in parallel, which can meet the residential electricity demand.

LB-16D-G2



Features

- 01

LFP with improved safety design
- 02

Provides abundant power with 314 Ah capacity, ensuring long-lasting energy storage
- 03

A recommended depth of discharge (DOD) of 90% allows for more usable energy
- 04

Adaptable to environments with temperatures ranging from -20°C to 55°C
- 05

Flexible capacity options from 16.08 kWh to 241 kWh
- 06

Intelligent BMS with multiple protection functions

Technical Specifications

Model	LB-16D-G2
System Data	
Battery type	LiFePO ₄
Rated capacity (Ah)	314
Total energy (kWh)	16.08
Rated voltage (V)	51.2
Voltage range (V)	42-57.6
Rated charging/discharging current (A)	62.8/157
Max. continuous charging/discharging current (25°C) (A)	157
Peak charging/discharging current (A)	200 (10s)
Max. charging/discharging power (kW)	8.04
Communication	CAN
Recommended depth of discharge (DOD)	90%
Max. parallel quantity	15
Protection	
Overvoltage and undervoltage protection	Integrated
Overcurrent protection	Integrated
Overtemperature and undertemperature protection	Integrated
Heating ⁽¹⁾	Optional
DC breaker ⁽¹⁾	Optional
General	
Dimensions (W × H × D [mm]) ⁽²⁾	500 × 880 × 240
Weight (kg) ⁽²⁾	115
Installation Environment	Indoor
Mounting	Floor standing
Charging temperature (°C)	0 to +55
Discharging temperature (°C)	-20 to +55
Protection degree	IP20
Cooling	Natural convection
Altitude (m)	≤2000
Cycle life (25°C)	6000 Cycles
Certification	IEC 62619, UN 38.3, CE-EMC, CB
Warranty	5 Years

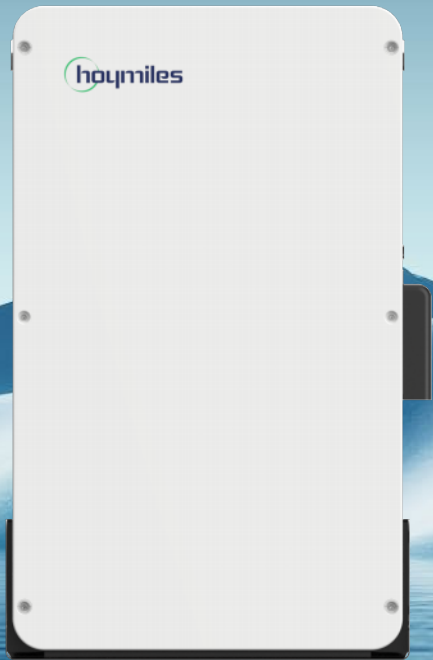
(1) The heating function and the DC breaker are available as a combination option; neither can be provided separately.

(2) The actual dimensions and weight may differ. For details, please contact Hoymiles sales.

LOW VOLTAGE BATTERY

The LB-10D-USG2 is a deep cycle high capacity LFP battery with improved safety, long lifespan, and optimized user experience. It is designed with a Type 4X rating for more flexible and easier installation, with wall-mounted and floor-standing installation options. It has superior performance with up to 10.24 kWh for a single unit and a maximum of 102.4 kWh in parallel.

LB-10D-USG2



Features

- 01

Support wall-mounted or floor-standing installation
- 02

Type 4X design is suitable for indoor/outdoor installation
- 03

A maximum capacity of 102.4 kWh in parallel
- 04

Quick connector design saves installation time

Technical Specifications

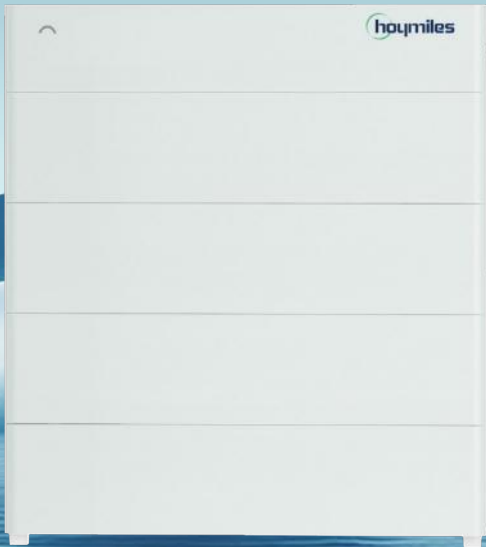
Model	LB-10D-USG2
System Data	
Battery type	LiFePO ₄
Rated capacity	200 Ah
Total energy	10.24 kWh
Rated voltage	51.2 V
Voltage range	44.8 V-57.6 V
Rated charging current	0.5C, 100 A
Max. charging current	150 A, 10 mins
Rated discharging current	0.5C, 100 A
Max. discharging current	150 A, 10 mins
Rated charging power	5.12 kW
Max. charging/discharging power	7.68 kW/7.68 kW, 10 mins
Peak discharging current	200 A, 15s
Communication	CAN
Recommended depth of discharge (DOD)	90%
Max. parallel quantity	Max. 10 sets in parallel, 102.4 kWh ⁽¹⁾
Protection	
Overvoltage and undervoltage protection	Integrated
Overcurrent protection	Integrated
Overtemperature and undertemperature protection	Integrated
DC breaker	Integrated
General	
Dimensions (W × H × D)	21.85 × 36.54 × 8.27 inch (555 × 928 × 210 mm)
Weight	227 lbs (103 kg)
Charging temperature	32°F to 131°F (0°C to +55°C)
Discharging temperature	-4°F to 131°F (-20°C to +55°C)
Protection degree	Type 4X
Cooling	Natural convection
Altitude	≤6562 ft (2000 m)
Cycle life (77°F/25°C, 0.5C)	≥6000 Cycles
Certification	UN 38.3, CEC, UL 1973, UL 9540A, UL 9540
Warranty	10 Years

(1) For details, please refer to local laws and regulations.

HIGH VOLTAGE BATTERY

The HB-(10-23)S-G2 series is a type of deep cycle and high capacity LFP battery with improved safety, long lifespan, and optimized user experience. It is designed with an IP65 rating for more flexible and easier installation. It has superior performance with a capacity ranging from 11.52 kWh to 23.04 kWh for a single tower, which can meet residential electricity demand.

HB-(10-23)S-G2



Features

- 01
LFP with improved safety design
- 02
Suitable for indoor/outdoor installation with IP65 design
- 03
Quick connector design saves installation time
- 04
Stackable design without wiring
- 05
Flexible capacity options from 11.52 kWh to 23.04 kWh
- 06
Module level fire protection

Technical Specifications

Model	HB-10S-G2	HB-15S-G2	HB-19S-G2	HB-23S-G2
System Data				
Battery type	LiFePO ₄			
Rated capacity (Ah)	50			
Number of modules	3	4	5	6
Total energy (kWh)	11.52	15.36	19.2	23.04
Rated voltage (V)	230.4	307.2	384	460.8
Voltage range (V)	201.6-259.2	268.8-345.6	336-432	403.2-518.4
Rated charging/discharging current	0.5C			
Max. continuous charging/discharging current (A)	30			
Max. charge/discharge power (kW)	5.76	7.68	9.6	11.52
Peak charge/discharge power (kW)	11.52 (5s)	15.36 (5s)	19.2 (5s)	23.04 (5s)
Communication	CAN, RS485			
Recommended depth of discharge (DOD)	90%			
Protection				
Overvoltage and undervoltage protection	Integrated			
Overcurrent protection	Integrated			
Overtemperature and undertemperature protection	Integrated			
DC breaker	Integrated			
General				
Dimensions (W × H × D [mm])	635 × 565 × 335	635 × 710 × 335	635 × 855 × 335	635 × 1000 × 335
Weight (kg)	132	172	212	252
Installation environment	Indoor/Outdoor			
Charging temperature (°C)	0 to +45			
Discharging temperature (°C)	-10 to +45			
Protection degree	IP65			
Cooling	Natural convection			
Altitude (m)	≤2000			
Cycle life (25°C, 0.5C)	6000 Cycles, @90% DOD, @70% EOL			
Certification	IEC 62619, UN 38.3, CE-EMC			
Warranty ⁽¹⁾	5-10 Years			

*Parallel connection between battery towers is not supported.
 (1) Please refer to Hoymiles Warranty Terms & Conditions for more details.

AC EV CHARGER

Hoymiles AC EV Charger can be connected to the Hoymiles energy storage inverter to form a PV, ESS, and EV Charger integrated solution, providing users with a whole home green power solution. It is characterized by green power priority, scheduled charging, RFID, free charge, and dynamic load management, meeting different charging demands.

S-Miles monitoring platform allows users to remotely check, diagnose, and track the power consumption of the PV, ESS, and EV Charger integrated system, maximizing green power utilization.

VAS-7-G2/VAT-11-G2/VAT-22-G2



Features

- 01

Intelligent control and data tracking available on the S-Miles App
- 02

Support multiple charging modes, including green power mode
- 03

Intelligent start-stop through RFID, free charge, or App
- 04

PV-ESS-EV solution supports dynamic load management to avoid overload and meet electricity demand
- 05

Excellent industrial design brings a pleasant user experience
- 06

IP65 and IK10 protection degree suitable for both indoor and outdoor installation

Technical Specifications

Model	VAS-7-G2	VAT-11-G2	VAT-22-G2
General Information			
Charging mode	Mode 3 (IEC 61851-1)		
Input/output power rating (kW)	7	11	22
Max. input/output current (A)	32	16	32
Input/output voltage rating (V)	230±10%	400±10%	
Rated frequency (Hz)	45-65		
Grid form	L/N/PE	3L/N/PE	
Supported grid type	TN-S, TN-C-S, TT, IT (L1 + L2 230 Vac single-phase)		
Charging interface	IEC 62196-2 Type 2 tethered plug (Case C)		
Residual current protection	DC 6 mA		
Protection	Overcurrent, overvoltage, undervoltage, residual current, overtemperature, grounding fault (optional), integrated surge protection		
User Interface			
Display and support languages	No display		
Status indication	LED indicator		
Button and switch	Emergency stop button		
User authentication	RFID card		
RFID reader	IEC 14443 A		
Communication			
Network Interface	RS485		
Protocol (EVSE and EV)	Control pilot		
Environmental Information			
Operating temperature (°C)	-30 to +50		
Storage temperature (°C)	-40 to +85		
Humidity	5% to 95%, no condensing		
Altitude (m)	≤3000		
Mechanical Information			
Dimensions (W × H × D [mm])	280 × 280 ×148 (without pole) 280 × 1210 ×201 (with pole)		
Weight (kg)	Approx. 3.75		
Installation	Wall mounting; pole mounting (pole is optional)		
IP rating	IP65		
IK rating	IK10		
Cooling	Natural convection		
Charging cable length (m)	5		
Certifications and Standards			
Standards and compliance	IEC 61851-1, IEC 61851-21-2, LVD 2014/35/EU, RED 2014/53/EU, IEC 62955 (RCD), RoHS 2.0, REACH		
Certification	CE-RED, CB		

ELECTRIC ENERGY METER

The DIN-rail mounted multifunction electric energy meter with external current transformers (CTs) is an intelligent instrument. Designed for new energy power generation systems, such as photovoltaic grid-tied systems, microinverter systems, energy storage systems, and ACcoupled systems, it is characterized by high accuracy, small size, fast response, and easy installation. It can sample, meter, and monitor power parameters, and transmit the data to inverters. Based on real-time power and accumulated electrical energy, it supports export management, regulates power generation, and can manage the battery charging and discharging processes. Additionally, it supports bidirectional metering. These functions can optimize the energy management of residential energy storage systems.

Meter-G3



Features

- 01

Supports CT reverse detection and adaptive phase sequence
- 02

Features two CT terminals for flexible application in AC coupled systems
- 03

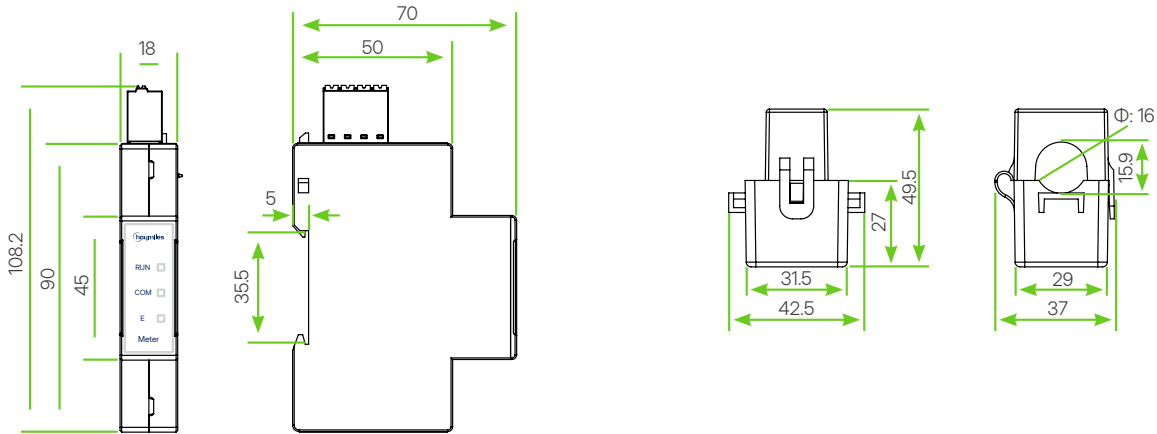
Uses CTs with RJ45 plugs to simplify the installation process
- 04

Compatible with 120 A/40 mA CT

Technical Specifications

Model	Meter-1S-G3	Meter-2S-G3	Meter-1T-G3	Meter-2T-G3
Basic Data				
Grid type	Single-phase		Three-phase four-wire	
Rated input voltage (V)	230		3 × 230/400	
Input voltage range (V)	230±20%		3 × 230/400±20%	
Overload voltage (V)	1.2 times rating (continuous)/2 times rating (1s)			
Rated input current (A)	120			
Overload current (A)	1.2 times rating (continuous)/2 times rating (1s)			
Power consumption (VA)	<0.2			
Grid frequency (Hz)	50 (±0.5%)			
Response rate	≤100 ms (voltage, current, power) ≤1s (electrical energy)			
Measurement Accuracy				
Voltage	±0.5%			
Current	±0.5%			
Active power	±0.5%			
Reactive power	±0.5%			
Apparent power	±0.5%			
Active energy	Class B (split-core current transformer)			
Reactive energy	Class 2			
Electromagnetic Compatibility				
Electrostatic discharge immunity	Class III			
Electrical fast transient burst immunity	Class IV			
Surge (shock) immunity	Class IV			
Safety				
Power frequency withstand voltage (Vac)	3000, 1 min (between communication and signal input)			
Insulation resistance (MΩ)	>100 (input and output terminals to enclosure)			
Communication				
Interface	RS485			
Communication protocol	Modbus RTU			
Communication address range	Modbus RTU: 1-247			
Baud rate (bps)	1200-38400			
Environment				
Operating temperature (°C)	-40 to +70			
Storage temperature (°C)	-40 to +70			
Relative humidity	≤95%, no condensation			
Altitude (m)	≤2000			
Mechanical Data				
Dimensions (W × H × D [mm])	18 × 108.2 × 70			
Weight (kg)	63.15			
Mounting	DIN rail			
Protection degree	IP20			

Unit: mm



Electric Energy Meter

CT-120 A/40 mA

DATA TRANSFER STICK

Hoymiles gateway DTS series are data transfer sticks that work between inverters and S-Miles Cloud platform via Wi-Fi, Ethernet or 4G communication. The DTS is designed as a suitable option for the energy storage system. Hoymiles DTS is small and easy to install. It pairs with the S- Miles Cloud platform to enable real-time system data or alarm monitoring and allows remote operation and maintenance of the storage energy system from anywhere.

DTS-G1



Features

- 01

Integrated to use, simply plug and play
- 02

IP65 protection
- 03

Stable and reliable data transmission
- 04

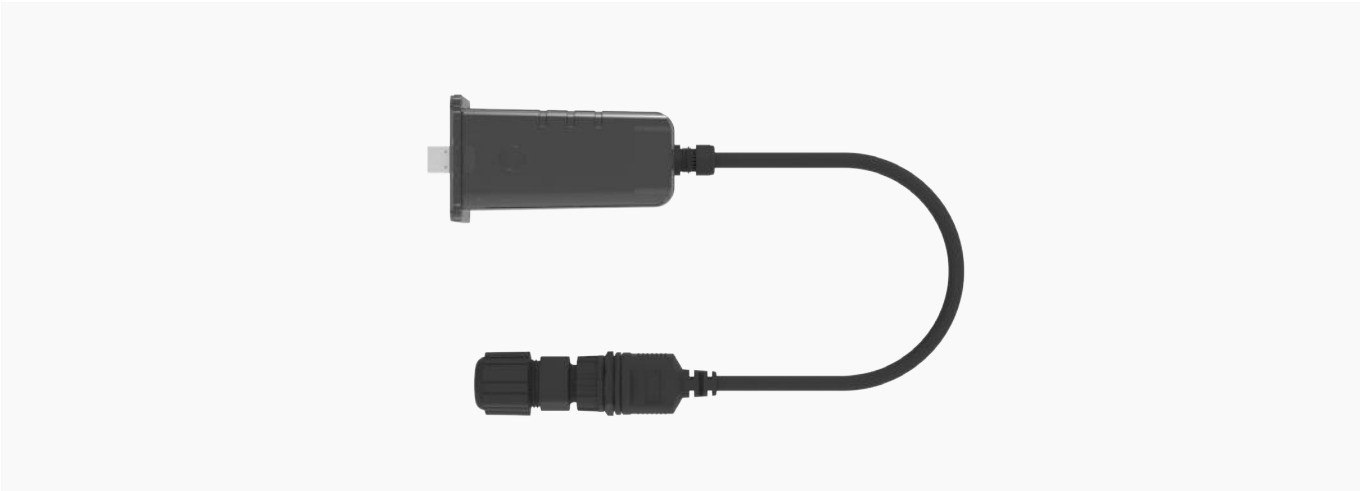
Remote maintenance of energy storage system on S-Miles Cloud platform

Technical Specifications



Model	DTS-Wi-Fi-G1
Communication	
Max. Inverter Supported	10
Sample Rate	5 minutes
Indicator	LED
Connection Interface	USB
Wireless Standard	802.11b/g/n
Frequency Range	2.412 GHz - 2.484 GHz
Configuration Method	App / Web
General	
Operating Voltage	DC 5 V
Power Consumption	≤ 5 W
Dimensions (W × H × D)	108 × 57 × 36 mm (4.3 × 2.2 × 1.4 inch)
Weight	60 g (0.13 lb)
Protection Degree	IP65
Installation Method	Insert + Screw
Environment	
Operating Temperature Range	-25°C to 65°C (-13°F to 149°F)
Relative Humidity	0-95%, no condensing
Operating Altitude	≤ 4000 m
Certifications and Standards	
Certificate	CE / RCM

Technical Specifications



Model	DTS-Ethernet-G1 ⁽¹⁾
Communication	
Max. Inverter Supported	10
Sample Rate	5 minutes
Indicator	LED
Connection Interface	USB
Ethernet Interface	RJ45
Ethernet Interface Standard	10Base-T / 100Base-T
Max. Distance of Network Cable	80 m
Configuration Method	App / Web
General	
Operating Voltage	DC 5 V
Power Consumption	≤ 5 W
Dimensions (W × H × D)	108 × 57 × 36 mm (4.3 × 2.2 × 1.4 inch)
Weight	130 g (0.22 lb)
Protection Degree	IP65
Installation Method	Insert + Screw
Environment	
Operating Temperature Range	-25°C to 65°C (-13°F to 149°F)
Relative Humidity	0-95%, no condensing
Operating Altitude	≤ 4000 m
Certifications and Standards	
Certificate	CE / RCM

(1) The DTS-Ethernet solution will be coming soon.

Technical Specifications



Model	DTS-4G-G1 ⁽¹⁾
Communication	
Max. Inverter Supported	10
Sample Rate	5 minutes
Indicator	LED
Connection Interface	USB
4G Standard & Frequency Range	4G: LTE-FDD / LTE-TDD 3G: WCDMA / HSDPA / HSUPA / HSPA+ 2G: GSM / GPRS / EDGE
Configuration Method	App / Web
General	
Operating Voltage	DC 5 V
Power Consumption	≤ 5 W
Dimensions (W × H × D)	108 × 57 × 36 mm (4.3 × 2.2 × 1.4 inch)
Weight	80 g (0.18 lb)
Protection Degree	IP65
Installation Method	Insert + Screw
Environment	
Operating Temperature Range	-25°C to 65°C (-13°F to 149°F)
Relative Humidity	0-95%, no condensing
Operating Altitude	≤ 4000 m
Certifications and Standards	
Certificate	CE / RCM

(1) The DTS-4G solution will be coming soon.

DATA TRANSFER STICK

The DTS-G3 series Data Transfer Stick (DTS) is designed as a suitable option for the energy storage system. Its plug and play design simplifies the installation, and the built-in Bluetooth module makes the commissioning more convenient and efficient. Using the S-Miles App, you can establish a local connection via Bluetooth to operate and maintain an energy storage system. The DTS-G3 series can also upload real-time data to the S-Miles Cloud via Wi-Fi or LAN communication. This enables you to remotely monitor, operate, and maintain an energy storage system.

DTS-G3



Features

- 01

Integrated to use, simply plug and play
- 02

IP66 protection
- 03

Stable and reliable data transmission
- 04

Intelligent monitoring management via S-Miles Cloud

Technical Specifications



Model	DTS-WL-G3
Basic Data	
Max. inverter supported	10
Data upload cycle	30s to 600s
LED Indicator	3
Connection Interface	USB
Configuration method	BLE App
Communication	
Bluetooth standard	BLE 5.0
Wi-Fi standard	IEEE 802.11 b/g/n/ax @2.4 GHz
Ethernet standard	10/100 Mbps self-adaption Max. distance of network cable: 100 m
Power	
Operating voltage	5 Vdc
Power consumption	<5 W
General	
Dimensions (W × H × D)	49.2 × 183.7 × 34.9 mm (1.9 × 7.2 × 1.4 in)
Weight	105 g (0.23 lb)
Installation	Plug and play
Environment	
Operating temperature range	-25°C to +65°C (-13°F to +149°F)
Relative humidity	0-95%, no condensing
Operating altitude	≤4000 m (13123 ft)
Protection degree	IP66 ⁽¹⁾
Certifications and Standards	
Certificate	CE, PSTI, EN 18031, FCC, IC, UKrSEPRO, NTC, TA, NBTC, WPC

(1) The requirements of IP66 can be met only when the DTS is used with an inverter.

Technical Specifications



Model	DTS-4G-G3
Basic Data	
Max. inverter supported	10
Data upload cycle	30s to 600s
LED Indicator	3
Connection Interface	USB
Configuration method	BLE App
Communication	
Bluetooth standard	BLE 5.0
Wi-Fi standard	IEEE 802.11 b/g/n/ax @2.4 GHz
4G standard	4G: LTE-FDD/LTE-TDD 3G: WCDMA/HSDPA/HSUPA/HSPA+ 2G: GSM/GPRS/EDGE
Power	
Operating voltage	5 Vdc
Power consumption	<5 W
General	
Dimensions (W × H × D)	49.2 × 126.8 × 33.2 mm (1.9 × 5.0× 1.3 in)
Weight	103 g (0.23 lb)
Installation	Plug and play
Environment	
Operating temperature range	-25°C to +65°C (-13°F to +149°F)
Relative humidity	0-95%, no condensing
Operating altitude	≤4000 m (13123 ft)
Protection degree	IP66 ⁽¹⁾
Certifications and Standards	
Certificate	FCC, IC

(1) The requirements of IP66 can be met only when the DTS is used with an inverter.

Technical Specifications



Model	DTS-WiFi-G3
Basic Data	
Max. inverter supported	10
Data upload cycle	30s to 600s
LED Indicator	3
Connection Interface	USB
Configuration method	BLE App
Communication	
Bluetooth standard	BLE 5.0
Wi-Fi standard	IEEE 802.11 b/g/n/ax @2.4 GHz
Power	
Operating voltage	5 Vdc
Power consumption	<5 W
General	
Dimensions (W × H × D)	49.2 × 126.8 × 33.2 mm (1.9 × 5.0 × 1.3 in)
Weight	82 g (0.18 lb)
Installation	Plug and play
Environment	
Operating temperature range	-25°C to +65°C (-13°F to +149°F)
Relative humidity	0-95%, no condensing
Operating altitude	≤4000 m (13123 ft)
Protection degree	IP66 ⁽¹⁾
Certifications and Standards	
Certificate	CE, PSTI, EN 18031, FCC, IC, UKrSEPRO, NTC, TA, NBTC, WPC

(1) The requirements of IP66 can be met only when the DTS is used with an inverter.

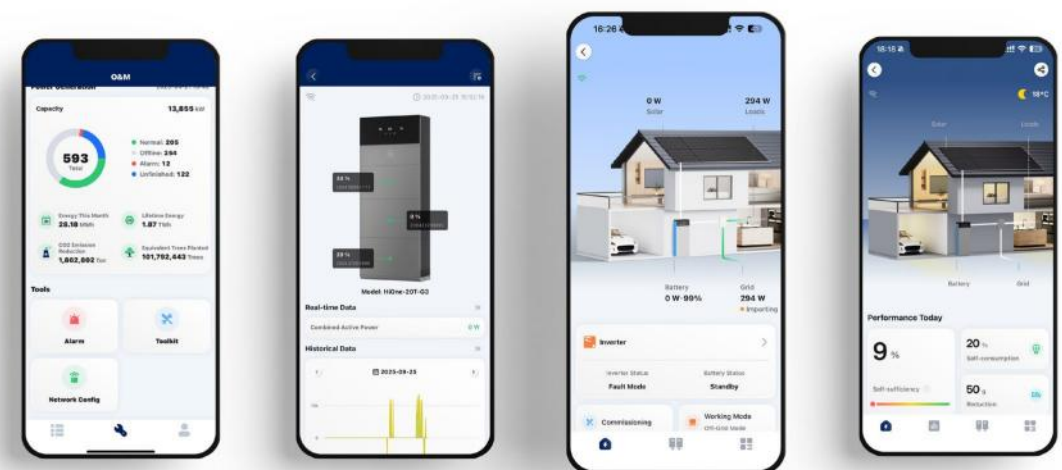
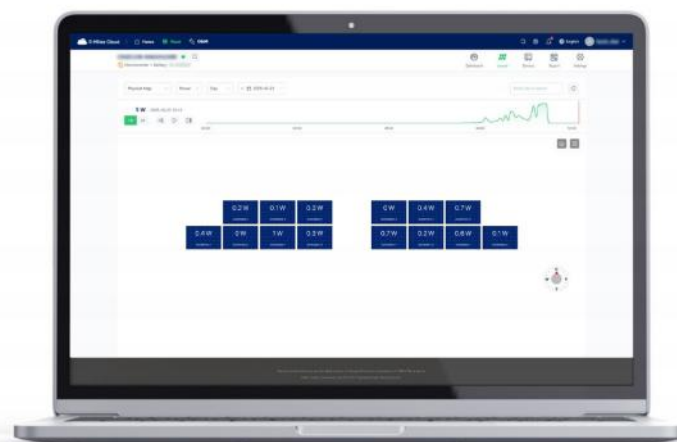


S-Miles Cloud

- Module level monitoring
- Individual MPPT
- Easy to operation and maintain the system

Available:

- ✓ Webpage
- ✓ APP- Android / IOS



C&I SCENARIO

Solar Solution

Hoymiles offers a comprehensive product portfolio for C&I energy upgrades, including high-power microinverters, rapid shutdown devices, and data transfer unit. This integrated approach simplifies equipment selection, meets diverse energy needs, and delivers enhanced investment returns with green benefits.

What Hoymiles Offers



THREE-PHASE
MICROINVERTER



DATA TRANSFER
UNIT



RSD DEVICE



MONITORING
PLATFORM

SOLUTION HIGHLIGHTS

Ideal For Large-Scale Projects

The world's first 5,000W microinverter supporting high-power PV modules.

Enhanced Safety Design

DC voltage as low as 120V/140V to minimize fire and electric shock risks.

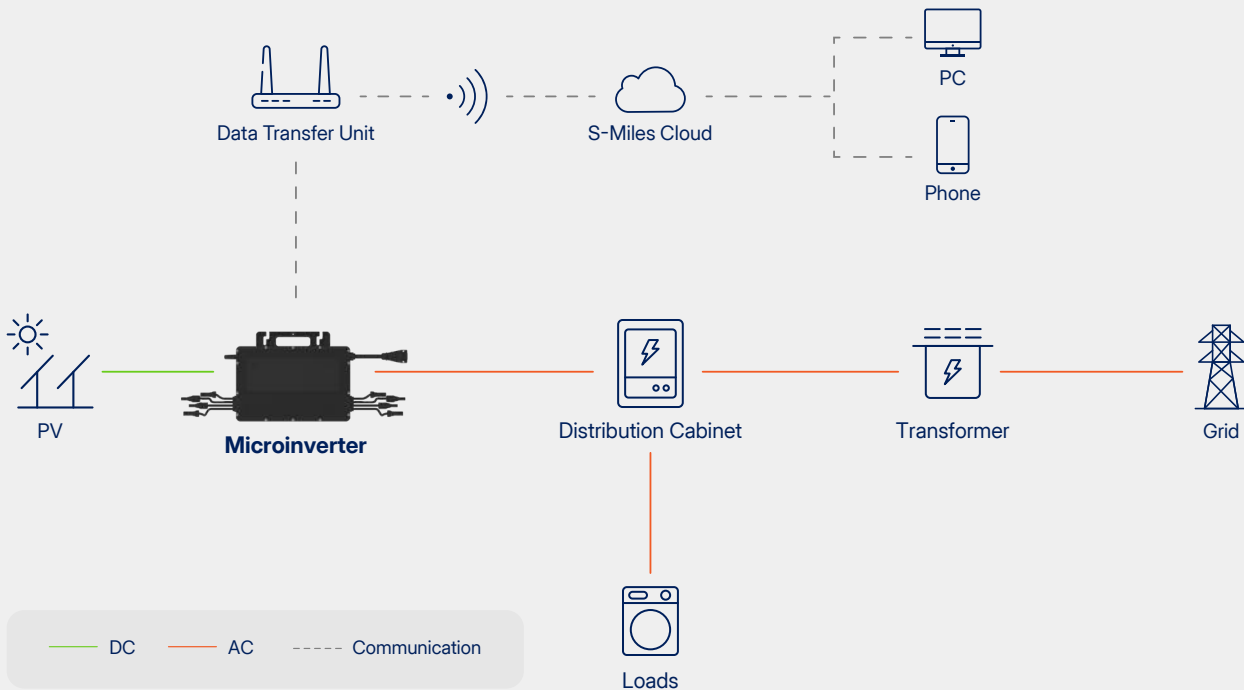
Power From Any Rooftop

Independent 4 MPPTs easily handle shading scenarios.

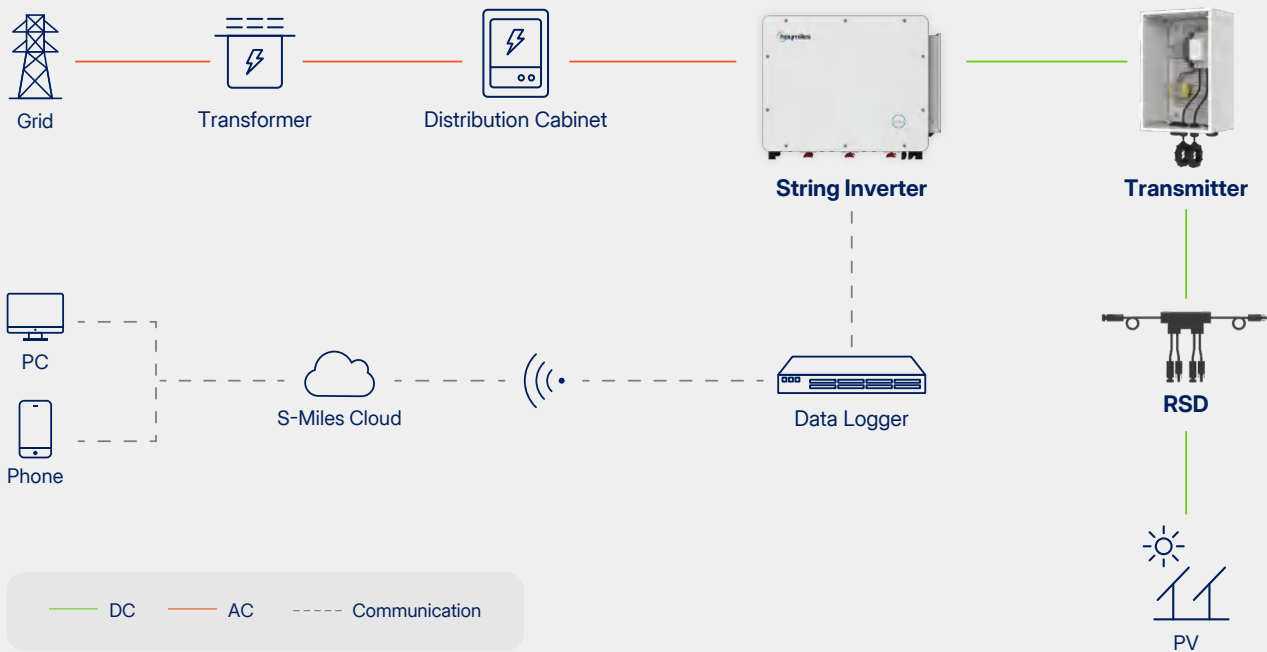
Premium Quality Guaranteed

25-year stable operation significantly reduces maintenance costs.

Microinverter Solution



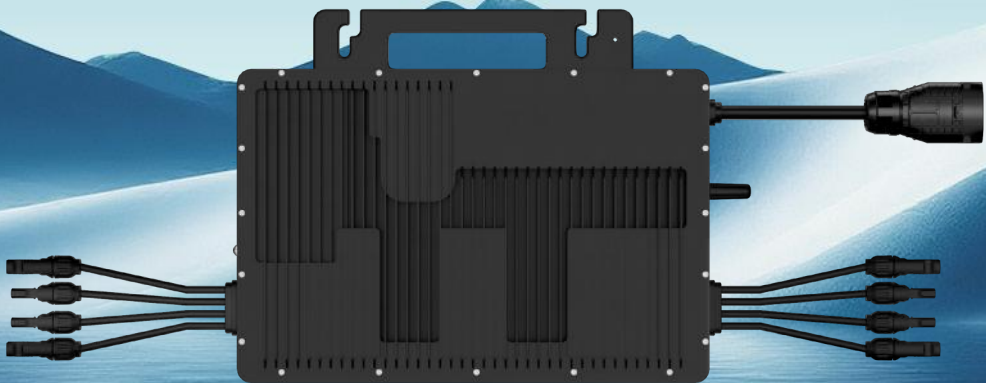
RSD Solution



THREE-PHASE MICROINVERTER

Hoymiles new generation microinverter MIT-5000-8T series is designed to accommodate eight high-powered PV modules, with output power up to 5000 W and input current up to 20 A. Its four MPPTs maximize energy harvest, ensuring optimal performance. The innovative 8-in-1 design significantly reduces system costs, making the MIT-5000-8T series a cost-effective choice. The Sub-1G wireless solution ensures stable communication with Hoymiles gateway DTU, and enables module-level monitoring and remote O&M on Hoymiles Monitoring Platform S-Miles Cloud.

MIT-(4000-5000)-8T



Features

- 01

Three-phase output, ideal for commercial and industrial applications
- 02

Output power up to 5000 W and input current up to 20 A, compatible with 182 mm/210 mm PV modules
- 03

Four MPPTs, optimizing power generation
- 04

Low input voltage for safer rooftop installations, minimizing arc faults and electric shocks
- 05

8-in-1 design for quick installation with Flex-T5 Cable System, reducing costs
- 06

Sub-1G wireless solution for stable communication and convenient O&M

Technical Specifications

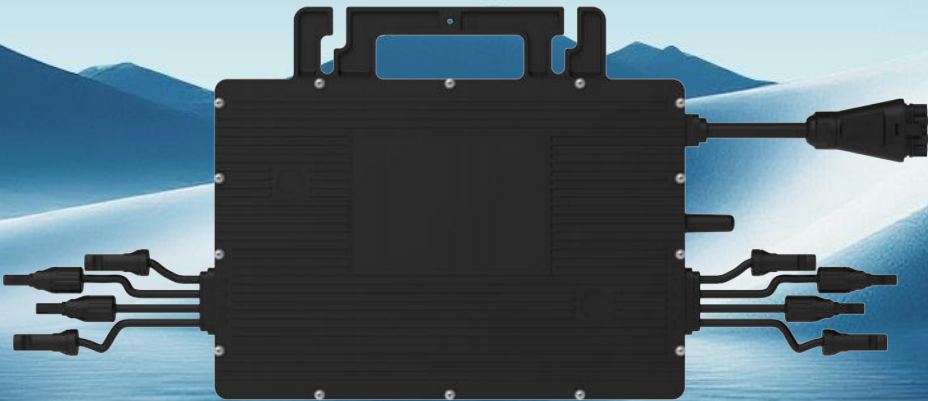
Model	MIT-4000-8T		MIT-4500-8T		MIT-5000-8T	
Input Data (DC)						
Commonly used module power (W)	400 to 650+		560 to 700+		600 to 750+	
Maximum input voltage (V)			140			
Minimum/Maximum start-up voltage (V)			32/136			
MPPT voltage range (V)			12-136			
Peak power MPPT voltage range (V)	58-136		59-136		66-136	
Maximum input current (A)			4 × 20			
Maximum input short circuit current (A)			4 × 25			
Number of MPPTs			4			
Number of inputs per MPPT			1			
Output Data (AC)						
Grid type	Three Phase					
Rated output power (W)	4000		4500		5000	
Rated output current (A)	3 × 6.06	3 × 5.79	3 × 6.82	3 × 6.52	3 × 7.58	3 × 7.25
Nominal output voltage (V)	220/380, 3L+N+PE	230/400, 3L+N+PE	220/380, 3L+N+PE	230/400, 3L+N+PE	220/380, 3L+N+PE	230/400, 3L+N+PE
Nominal frequency (Hz)*	50/60					
Nominal range (Hz)*	45-55 / 55-65					
Adjustable power factor (@rated power)	>0.99 default 0.8 leading ... 0.8 lagging					
Total harmonic distortion (@rated power)	< 3%					
Maximum units per 2.5 mm² branch**	4	4	3	4	3	3
Maximum units per 4 mm² branch**	5	5	4	5	4	4
Maximum units per 6 mm² branch**	6	6	5	6	5	5
DC/AC ratio	≤ 1.35					
Efficiency						
Peak efficiency	97.40%		97.40%		97.40%	
EU weighted efficiency	96.10%		96.30%		96.40%	
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])	395 × 308 × 60					
Weight (kg)	9					
Enclosure rating	Outdoor-IP67					
Cooling	Natural convection-No fans					
Features						
Communication	Sub-1G					
Topology	Transformerless					
Monitoring	S-Miles Cloud (Hoymiles Monitoring Platform)					
Compliance	EN 50549-1: 2019, EN 50549-10:2022 IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4, IEC/EN 61000-3-2/-3, UL 3741					

* : The parameter may vary depending on local requirements.
** : Refer to local requirements for exact number of microinverters per branch.

THREE-PHASE MICROINVERTER

The Hoymiles HMT-2000-4T series microinverter is designed for highpowered PV modules, offering a maximum output power of up to 2000 VA and a maximum DC input current of up to 16 A. Its innovative 4-input design streamlines installation and reduces costs, making the HMT-2000-4T series a highly cost-effective choice. The new Sub-1G wireless solution ensures stable communication with the Hoymiles gateway DTU, while the S-Miles Cloud platform enables module-level monitoring and remote operation and maintenance (O&M).

HMT-(1600-2000)-4T



Features

- 01

Three-phase output, more suitable for commercial and industrial applications
- 02

With output power up to 2000 VA, compatible with 182 mm/210 mm PV module
- 03

Grid protection relay integrated
- 04

4-in-1 design enables faster installation and comes with a lower cost
- 05

Safer for rooftop solar stations with rapid shutdown compliance and isolated transformer
- 06

Sub-1G wireless solution allows stable communication in commercial and industrial settings

Technical Specifications

Model	HMT-1600-4T	HMT-1800-4T	HMT-2000-4T
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)	16–60		
Minimum/Maximum start-up 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	2		
Number of inputs per MPPT	2		
Output Data (AC)			
Grid Type	Three Phase		
Rated output power (VA)	1600	1800	2000
Rated output current (A)	2.32 × 3	2.61 × 3	2.9 × 3
Nominal output voltage (V)	230/400, 3W+N+PE		
Nominal frequency (Hz)	50		
Adjustable power factor (@nominal power)	> 0.99 default		
Total harmonic distortion (@nominal power)	< 3%		
Maximum units per 2.5 mm ² branch [*]	9	8	7
Maximum units per 4 mm ² branch [*]	12	11	10
Maximum units per 6 mm ² branch [*]	16	14	13
Efficiency			
Peak efficiency	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])	326 × 222 × 40.6		
Weight (kg)	5.9		
Enclosure rating	Outdoor-IP67		
Cooling	Natural convection-No fans		
Features			
Communication	Sub-1G		
Type of isolation	Galvanically Isolated HF Transformer		
Monitoring	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		

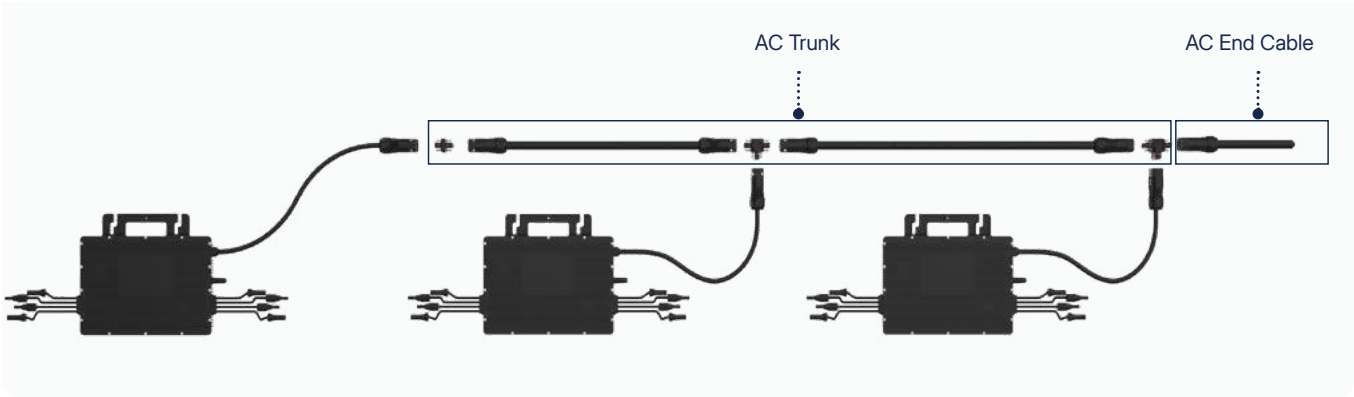
* : Refer to local requirements for exact number of microinverters per branch.

** : Hoymiles Monitoring System

Flex-T5 Cable Accessories

I Simplify Your Installation with Easy, Flexible, and Reliable Cable System

The Flex-T5 Cable System is a revolutionary cabling solution designed for MiT series microinverters. Its user-friendly plug-and-play design makes the installation easier, faster, and more reliable. The Flex-T5 Cable System features high flexibility, allowing users to mix and match Flex-T5 Connection Cables of different sizes or lengths to achieve their desired wiring configuration at the lowest cost.





Time-saving: Plug-and-play design eliminates the need for complex wiring, cutting installation time by 70%.



Cost-effective: The microinverter's AC output shares the same design as all connectors in the AC Trunk, enhancing flexibility while cutting costs.



Flexibility: Provide great flexibility for AC Trunk design that caters to the specific requirements of your PV system.



Reliability: Reconfigured wiring layout reduces heat production, ensuring a secure and stable connection.

Flex-T5 Connection Cable

Makes a customized AC Trunk by utilizing Flex-T5 Trunk Connectors and Flex-T5 Extension Connectors.



Flex-T5 Trunk Connector

Used to connect the microinverter's AC output to the AC Trunk, and to join together multiple Flex-T5 Connection Cables to create the AC Trunk.



Flex-T5 Extension Connector

Used to connect the first microinverter in the AC Trunk, to extend cable runs between microinverters when the distance exceeds the standard Flex-T5 Connection Cable length, and to create a cost-effective single-microinverter system.



Flex-T5 Cable Terminal Connector

Used to form the AC cable into an AC End Cable, which completes the connection between the end of the AC Trunk and the distribution box.



Flex-T5 Disconnect Tool

A versatile tool that can be used to take apart connectors, tighten nuts, and loosen nuts.



Technical Specifications

Connector System Parameter		
Compatible microinverter		MiT series
Pin number		3P + N + PE
Rated voltage		500 V
Rated current		40 A
Max. supported conductor size		6.0 mm ²
Max. supported cable outer diameter		20.5 mm
Ambient temperature range		-40°C to +85°C
Protection rating		IP68
Flame resistance degree		UL94-V0
Compliance		RoHS, UV Resistant
Product standard		EN 61984
Cable Parameter		
Cable type		H07RN-F
Rated voltage		450 V / 750 V
Conductor size		2.5 / 4.0 / 6.0 mm ²
Ambient temperature range		-40°C to +90°C
Compliance		RoHS
Product standard		EN50525-2-21

Ordering Options

Name	Model	Number per Box	Box Dimensions
Flex-T5 Trunk Connector	T5-TC	160 PCS	495 mm × 290 mm × 255 mm
Flex-T5 Extension Connector	T5-EC	300 PCS	495 mm × 290 mm × 255 mm
Flex-T5 Disconnection Tool	T5-DT	320 PCS	495 mm × 290 mm × 255 mm
Flex-T5 Cable Terminal Connector	T5-CTC-EN2540C	110 PCS	495 mm × 290 mm × 255 mm
	T5-CTC-EN60C	TBD	495 mm × 290 mm × 255 mm
	T5-CTC-EN2560C	TBD	495 mm × 290 mm × 255 mm
	T5-CTC-EN2560S	TBD	495 mm × 290 mm × 255 mm

Flex-T5 Connection Cable Model	Conductors Cross Sectional Area	Rated Current *	Cable Length Between Connectors **	Minimum Bending Radius	Number per Box	Box Dimensions
T5-CC-EN25-230	5 × 2.5 mm ²	22 A	2.3 m	9 cm	TBD	345 mm × 345 mm × 375 mm
T5-CC-EN25-300	5 × 2.5 mm ²	22 A	3.0 m	9 cm	TBD	345 mm × 345 mm × 375 mm
T5-CC-EN25-460	5 × 2.5 mm ²	22 A	4.6 m	9 cm	TBD	345 mm × 345 mm × 375 mm
T5-CC-EN40-230	5 × 4.0 mm ²	30 A	2.3 m	11 cm	TBD	345 mm × 345 mm × 375 mm
T5-CC-EN40-300	5 × 4.0 mm ²	30 A	3.0 m	11 cm	TBD	345 mm × 345 mm × 375 mm
T5-CC-EN40-460	5 × 4.0 mm ²	30 A	4.6 m	11 cm	TBD	345 mm × 345 mm × 375 mm
T5-CC-EN60-230	5 × 6.0 mm ²	39 A	2.3 m	12 cm	TBD	345 mm × 345 mm × 375 mm
T5-CC-EN60-300	5 × 6.0 mm ²	39 A	3.0 m	12 cm	TBD	345 mm × 345 mm × 375 mm
T5-CC-EN60-460	5 × 6.0 mm ²	39 A	4.6 m	12 cm	TBD	345 mm × 345 mm × 375 mm

* : Comply with local standards when designing and installing cables.
** : Cable length can be customized. Contact Hoymiles sales for more details.

DATA TRANSFER UNIT

The Hoymiles DTU-Pro-S gateway collects data from PV microinverters using a Sub-1G wireless connection and transmits it to the Hoymiles monitoring platform S-Miles Cloud via Ethernet, Wi-Fi, or 4G. With the DTU-Pro-S, you can access real-time, module-level data and system alerts, monitor system performance remotely, and troubleshoot issues from anywhere using S-Miles Cloud.

DTU-Pro-S



Features

01 Reliable and Flexible

- Sub-1G wireless solution enables stable communication with HMS3, HMT, MiS, MiT3 series microinverters
- More communication options with Ethernet, Wi-Fi, or 4G
- Support of RS485, Ethernet to communicate with peripherals

02 Simple and Efficient O&M

- Module-level monitoring and data storage
- Local configuration with S-Miles Installer App
- Support remote O&M including remote upgrading, parameter setting

03 Smart

- Smart zero export control and power export limiting
- PV generation and load consumption monitoring

Technical Specifications

Model	DTU-Pro-S (Wi-Fi Version)	DTU-Pro-S (4G Version)
Communication to Microinverter		
Signal	Sub-1G	
Maximum distance (open space) (m)	400	
Monitoring data limit from solar panels ¹	99	
Communication to S-Miles Cloud		
Ethernet	RJ45 × 1, 100 Mbps	
Wireless standard ²	Wi-Fi: 802.11b/g/n	4G: TDD-LTE, FDD-LTE 3G: SCDMA 2G: GSM/GPRS
Radio band (GHz)	2.4	
Sample rate (min)	Per 5	
Communication to Peripherals		
RS485	COM × 1, 9600 bps, Modbus-RTU	
Ethernet	RJ45 × 1, Modbus-TCP	
DRM	RJ45 × 1, DRM0/5/6/7/8	
Interaction		
LED	LED Indicator × 4 – RUN, Cloud, MI, ALM	
APP	S-Miles Installer	
Power Supply (Adapter)		
Type	External adapter	
Adapter input voltage/frequency (V AC/Hz)	100 to 240 / 50 or 60	
Adapter output voltage/current (V/A)	5 / 2	
Power consumption (W)	Typ. 1.5 / Max. 3.0	Typ. 2.5 / Max. 5.0
Mechanical Data		
Ambient temperature (°C)	-20 to +55	
Dimensions (W × H × D [mm])	200 × 101 × 29 (without antennas)	
Weight (kg)	0.20	
Installation method	Wall mounting / Desktop mounting	
Environmental rating	Indoor-IP20	
Compliance		
Certificates	CE, FCC, IC, RCM, Anatel	
Microinverter Compatibility		
Microinverter model	HMS series ³ , HMT series, MiT series ³ , MiS Series	

^{*1} This depends on the installation environment. Please refer to the user manual for more details.
^{*2} Extended antenna is recommended if the DTU is installed inside a metal box or under a metal/concrete roof.
^{*3} DTU-Pro-S is compatible with: (a) HMS Series microinverters except HMS-300W/350W/400W/450W/500W-1T, HMS-600W/700W/800W/900W/1000W-2T, and HMS-1600DW/1800DW/2000DW-4T microinverters; (b) MiT Series microinverters except MIT-4000/4500/5000-8E Series microinverters.

DATA TRANSFER UNIT

The Hoymiles DTU-Lite-S is a compact data transfer unit for residential solar systems. Its small size and simple installation make it easy to set up. It uses Sub-1G wireless communication to collect data from microinverters and sends this data to the Hoymiles monitoring platform, S-Miles Cloud, using Wi-Fi. With the DTU-Lite-S, you can view real-time data and alarms for each PV module. You can monitor system performance remotely and perform maintenance anytime, from anywhere, through S-Miles Cloud.

DTU-Lite-S

Features

- 01

Module-level monitoring and data storage
- 02

Plug and play, easy installation
- 03

Sub-1G wireless solution with microinverter
- 04

Real-time microinverter data and alarm on S-Miles Toolkit
- 05

Remote system management on S-Miles Cloud

Technical Specifications

Model	DTU-Lite-S
Communication to Microinverter	
Type	Sub-1G
Maximum distance (open space)	400 m
Monitoring data limit from solar panels ¹	99
Communication to S-Miles Cloud	
Wireless standard	Wi-Fi 802.11b/g/n
Radio band	2.4 Ghz
Sample rate	Per 15 minutes
Interaction	
LED	LED Indicator
Local app	S-Miles Toolkit
Power Supply (Adapter)	
Type	External adapter
Adapter input voltage/frequency	100 to 240 V AC / 50 or 60 Hz
Adapter output voltage/current	5V / 2A
Power consumption (DTU)	Typ. 1.0W / Max. 5.0W
Mechanical Data	
Ambient temperature range (°C)	-20 to +55
Dimensions (W × H × D [mm])	143 × 33 × 12.5
Weight (g)	43
Installation option	Direct plug-in
Compliance	
Certificate	CE, RCM, Anatel
Microinverter Compatibility	
Microinverter model	HMS series, HMT series, MiS series

^{*1} This depends on the installation environment. Please refer to user manual for more details.

HOYMILES RAPID SHUTDOWN

As part of Hoymiles Rapid Shutdown Solution for the PV system, HRSD-2C is connected with two modules. It meets NEC 2017, NEC 2020, UL 1741 and SunSpec Rapid Shutdown requirements, guaranteeing PV system safety. The HRSD device enables proper operation of the PV system when it is installed and receives a "permission to operate" signal from the Hoymiles Transmitter. In an emergency, the PV system would enter module-level rapid shutdown mode by simply disconnecting the AC power of the Transmitter or using an external initiator.

HRSD-2C



Features

- 01

Module-level Rapid Shutdown
Meets SunSpec RSD, NEC 2017&NEC 2020 690.12 requirements
- 02

Increased Reliability
Uses Active Bypass to reduce heat generation in shade and other situations
- 03

Better Temperature Uniformity
Uses graphene heat spreader to improve heat dissipation
- 04

Easy Installation
Plug & play, no configuration required
- 05

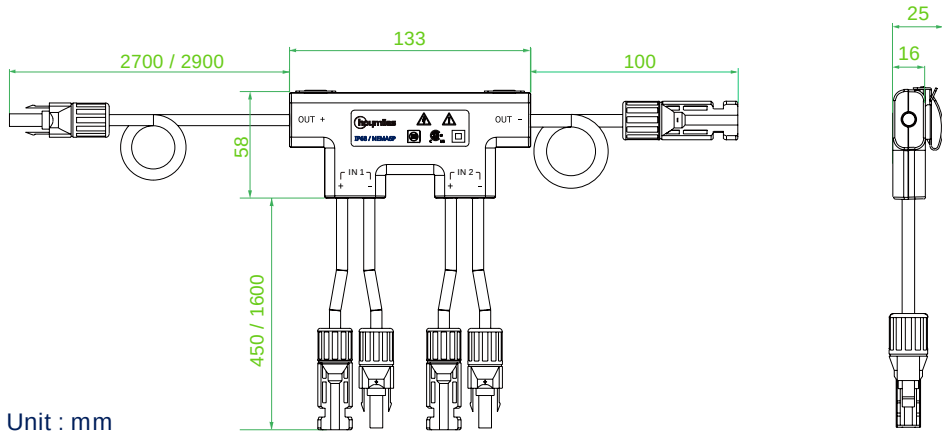
High Efficiency
Lower power consumption and wider operating voltage range
- 06

Reliable Communication
Able to avoid crosstalk with special communication modulation technique

Technical Specifications

Model	HRSD-2C	HRSD-2C-B
Electrical Data		
Output voltage range	16-160 V	16-130 V
Input voltage range	8-80 V	8-65 V
Maximum current	15 A	20 A
Maximum short circuit current	25 A	
Maximum system voltage	1000 V / 1100 V (1500 V optional)	
Communication type	SunSpec PLC	
Shutdown output voltage	1 V	
Power consumption	200 mW	
Mechanical Data		
Input connectors	MC4 / MC4 EVO2, optional	
Input cable length ¹	0.45 m (1.48 ft.) / 1.6 m (5.23 ft.), optional	
Output connectors	MC4 / MC4 EVO2, optional	
Output cable length ²	2.7 m (+) / 0.1 m (-) 8.86 ft. (+) / 0.33 ft. (-)	2.9 m (+) / 0.1 m (-) 9.51 ft. (+) / 0.33 ft. (-)
Dimensions	133 x 58 x 16 mm (5.24 x 2.28 x 0.63 inch)	
Environmental		
Operating temperature range	-40°C to +85°C (-40°F to +185°F)	
Outdoor rating	IP68 / NEMA6P	
Compliance		
Safety	UL1741, CSA C22.2 No. 330-17, IEC/EN 62109-1	
EMC	FCC Part15 Class B, ICES-003, IEC/EN 61000-6-1/-2/-3/-4	

*1 The former matches PV module output cables of 1.35 m (4.43 ft.) at minimum, and the latter matches those of 0.2 m (0.66 ft.) at minimum.
2 Fits PV module in portrait installation. Contact Hoymiles if horizontal installation is needed.



HOYMILES TRANSMITTER

As part of Hoymiles Rapid Shutdown solution, the HT-G20-Kit series are designed to work with HRSD for rapid shutdown at the module level. The kit comprises one HT-G20 (available in single or dual Core), one single-phase power supply, and an outdoor enclosure. When powered on, the HT-G20 uses PLC technology to continuously send a "permission to operate" signal to HRSD, enabling the PV system to start producing power. In case of emergency, the PV system would enter module-level rapid shutdown mode by simply disconnecting the AC power of the Transmitter or using an external initiator.*

* Refer to the user manual for details.

HT-G20-Kit-A1S2/B1S2/B2S2/C2S2



Features

- 01

Module-level rapid shutdown with Hoymiles HRSD
- 02

Achieves rapid shutdown through Transmitter power-off or external initiation
- 03

Advanced crosstalk prevention solution
- 04

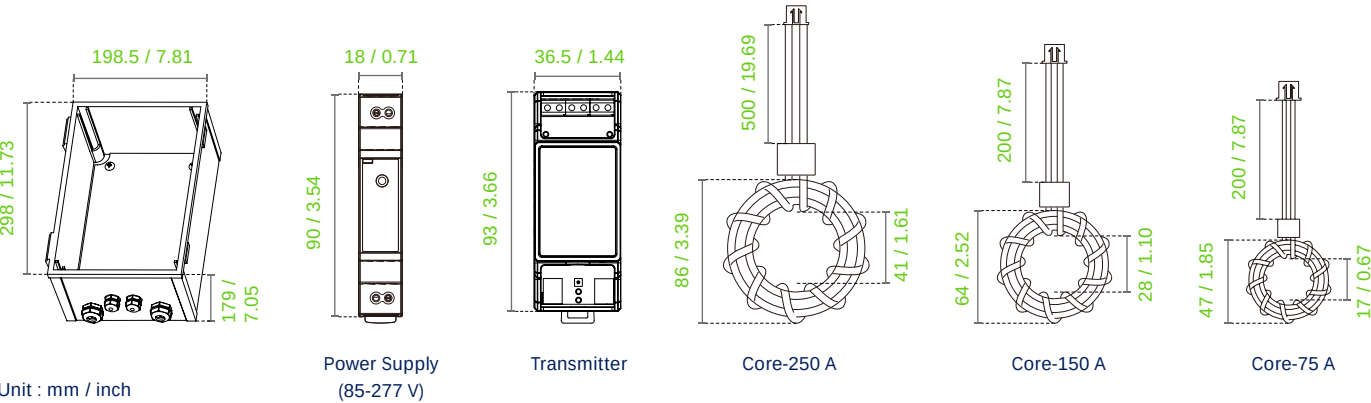
Weatherproof outdoor enclosure
- 05

Complied with NEC 2017&NEC 2020 690.12 requirements
- 06

Equipped with single-phase power supply

Technical Specifications

Model	HT-G20-Kit-A1S2			HT-G20-Kit-B1S2			HT-G20-Kit-B2S2			HT-G20-Kit-C2S2		
Electrical												
Transmitter input voltage	12 V DC (+/-2%)											
Transmitter input current	1 A											
PSU input voltage range	85-277 V AC											
Communication												
Communication type	PLC											
Max. cable length between inverter input (+) and input (-)	800 m (2624.67 ft.)											
Core												
Number of Core connected	1			1			2			2		
Max. allowable current per Core	75 A			150 A			150 A			250 A		
DC cable diameter	Φ 6 mm (0.24")	Φ 6.45 mm (0.25")	Φ 7 mm (0.28")	Φ 6 mm (0.24")	Φ 6.45 mm (0.25")	Φ 7 mm (0.28")	Φ 6 mm (0.24")	Φ 6.45 mm (0.25")	Φ 7 mm (0.28")	Φ 6 mm (0.24")	Φ 6.45 mm (0.25")	Φ 7 mm (0.28")
Max. number of strings per Core*	5	4	3	15	12	10	15	12	10	20	18	16
Max. number of HRSD-1Cs per Core**	150	120	90	450	360	300	450	360	300	600	540	480
Max. number of HRSD-2Cs per Core**	75	60	45	225	180	150	225	180	150	300	270	240
Mechanical												
Dimensions	198.5 × 298 × 179 mm (7.81" × 11.73" × 7.05")											
Mounting type	Wall-mounted											
Environmental												
Operating temperature range	-40°C to +85°C (-40°F to +185°F)											
Outdoor rating	IP65											
Compliance												
Safety	UL3741, UL1741, CSA C22.2 No. 330-17											
EMC	FCC Part 15B, ICES-003											
* The maximum number of strings per Core is determined by the DC cable current and diameter. The total cable current should not exceed the Core's maximum allowable current, and the total cable diameter should not exceed the Core's diameter.												
** Max. number of HRSDs per Core = Max. number of strings per Core × number of PV modules per string (In the table we have assumed each string has 30 PV modules.)												



HOYMILES TRANSMITTER

The HT-G20 Series Transmitters are part of the Hoymiles Rapid Shutdown solution and work with HRSD for module-level rapid shutdown. When the transmitter is powered on, it uses PLC technology to send a "permission to operate" signal to HRSD allowing the PV system to produce power. In an emergency, the PV system can be shut down by turning off the transmitter's AC power or using an external switch.*

*For more details, see the user manual.

HT-G20-A101/A102/B202/C202



Features

- 01

Works with Hoymiles HRSD for quick module shutdown
- 02

Quickly shuts down by powring off the transmitter or using an external initiation
- 03

Advanced crosstalk prevention solution, prevents signal interference effectively
- 04

Complied with NEC 2017&NEC 2020 690.12 requirements
- 05

Available with single or dual cores

Technical Specifications

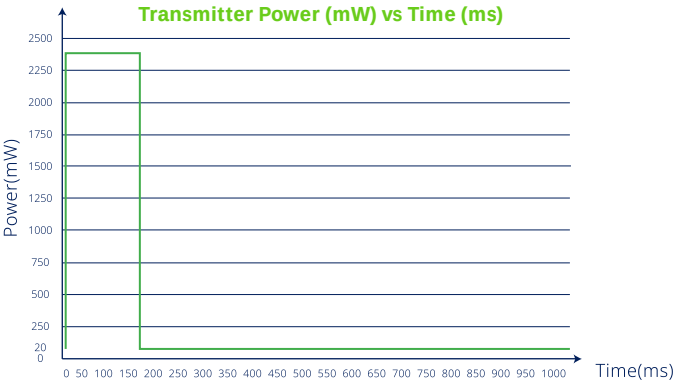
Model	HT-G20-A102			HT-G20-B102			HT-G20-B202			HT-G20-C202		
Electrical												
Transmitter input voltage	12 V DC (+/-2%)											
Transmitter input current	0.06 A											
Communication												
Communication type	PLC											
Max. cable length between inverter input (+) and input (-)	800 m (2624.67 ft.)											
Core												
Number of Core connected	1			1			2			2		
Max. allowable current per Core	75 A			150 A			150 A			250 A		
DC cable diameter	Φ 6 mm (0.24")	Φ 6.45 mm (0.25")	Φ 7 mm (0.28")	Φ 6 mm (0.24")	Φ 6.45 mm (0.25")	Φ 7 mm (0.28")	Φ 6 mm (0.24")	Φ 6.45 mm (0.25")	Φ 7 mm (0.28")	Φ 6 mm (0.24")	Φ 6.45 mm (0.25")	Φ 7 mm (0.28")
Max. number of strings per Core`	5	4	3	15	12	10	15	12	10	20	18	16
Max. number of HRSD-1Cs per Core**	150	120	90	450	360	300	450	360	300	600	540	480
Max. number of HRSD-2Cs per Core**	75	60	45	225	180	150	225	180	150	300	270	240
Mechanical												
Dimensions	93 × 36.5 × 53 mm (3.66" × 1.44" × 2.09")											
Mounting type	DIN35 rail											
Environmental												
Operating temperature range	-40°C to +85°C (-40°F to +185°F)											
Outdoor rating	IP10 / NEMA1											
Compliance												
Safety	UL3741, UL1741, CSA C22.2 No. 330-17											
EMC	FCC Part 15B, ICES-003											

* The maximum number of strings per Core is determined by the DC cable current and diameter. The total cable current should not exceed the Core's maximum allowable current, and the total cable diameter should not exceed the Core's diameter.

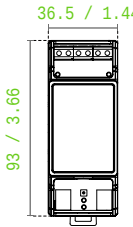
** Max. number of HRSDs per Core = Max. number of strings per Core × number of PV modules per string (In the table we have assumed each string has 30 PV modules.)

When installed inside an inverter, the HT-G20 needs to be powered with the following power curve at least.

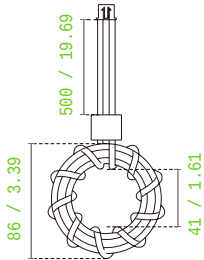
- Voltage: 12 V DC (+/-2%)
- Power standby: 0.2 W
- Duty cycle: 16%
- Max. power: 3 W



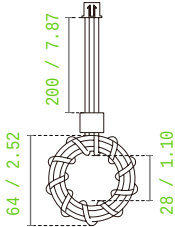
Unit: mm / inch



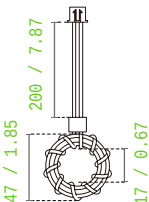
Transmitter



Core-250 A



Core-150 A



Core-75 A

C&I SCENARIO

Storage Solution

Hoymiles offers power conversion systems (PCS), energy storage batteries, all-in-one battery systems, and other equipment to C&I owners. All products utilize liquid cooling technology, offering superior power density and efficiency and meeting the diverse needs of various C&I scenarios.



SOLUTION HIGHLIGHTS

Full Liquid-Cooling Design

Reliable operation from -30°C to +55°C with 30% lower auxiliary power use.

Safety You Can Trust

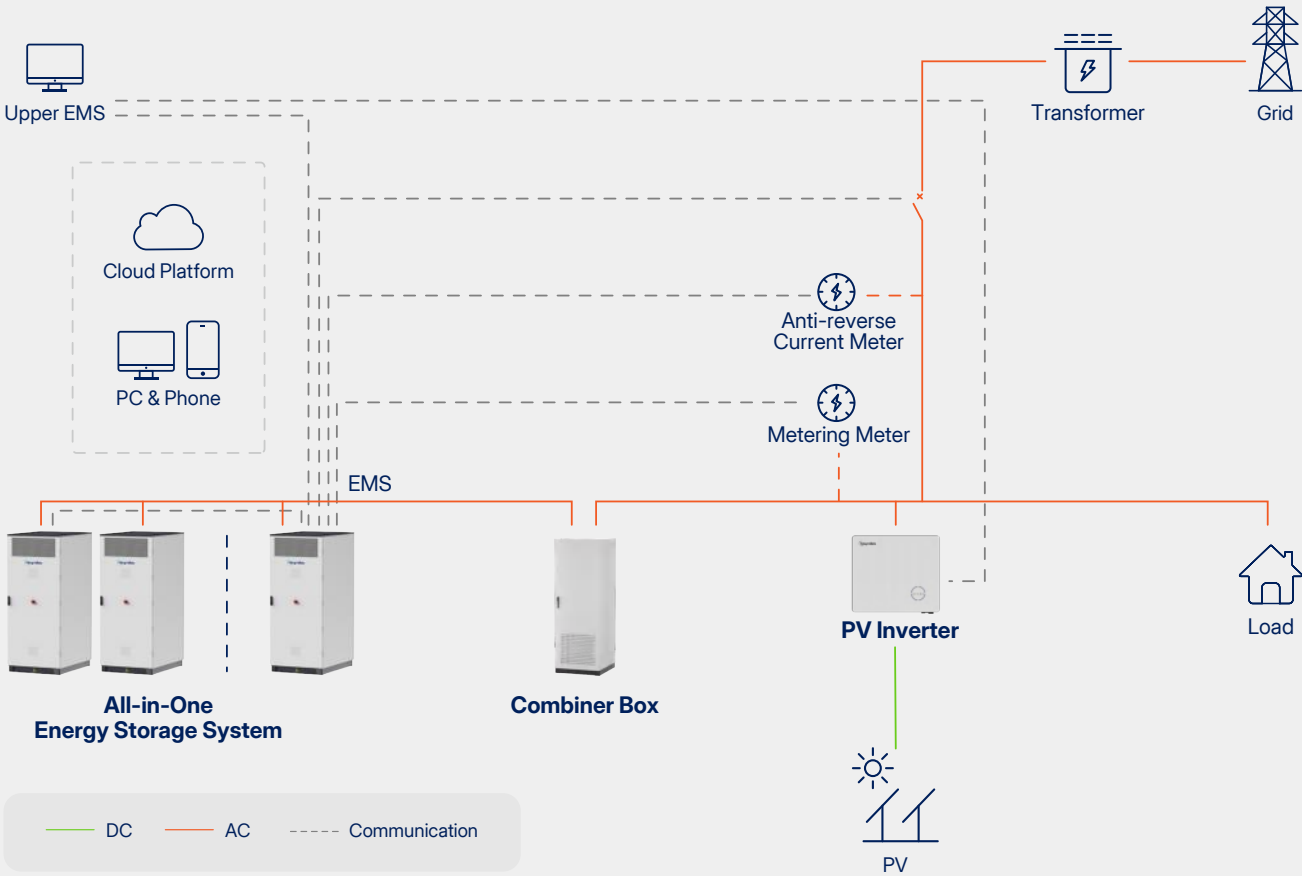
Triple-level fire protection and sixfold safeguards ensure ultimate system stability.

Smart & Fast Operation

Cloud-based diagnostics with rapid 24-hour fault recovery keep downtime near zero.

Perfect Fit Anywhere

Compact, quiet (just 60 dB) design—seamlessly blends into malls, hotels, and communities.



What Hoymiles Offers



ALL-IN-ONE ESS



DC CABINET



PCS

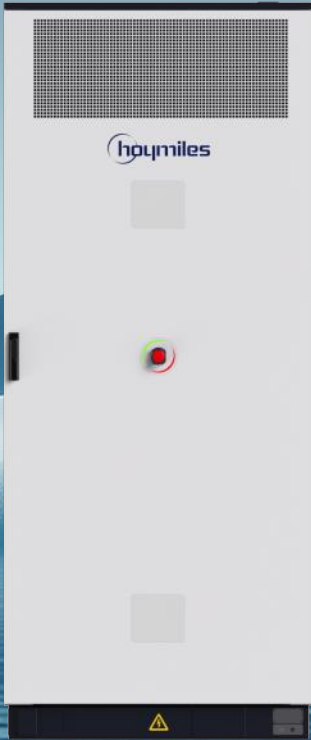


CONTAINERIZED ESS

FULLY LIQUID COOLING C&I BATTERY SYSTEM

HoyUltra 2 series (Model:HESS-261-2h)is a next-generation fully liquid cooling C&I battery system by Hoymiles, Its maximum round-trip efficiency can reach 90.3%.Equipped with a 3-level, 6-type safety protection mechanism, it ensures 24/7 safe operation. The edge EMS and local APP system enable intelligent operation and maintenance.The battery and PCS feature a fully liquid cooling design, allowing for full - capacity operation without derating even at 50°C. The core components boasting an IP55 protection rating and noise levels as low as 60dB

HoyUltra 2



Features

01 Three-level and six-type safaty protection

- Active / Passive / Ultimate protection
- 3S Active intervention / PACK / Cabinet / Interlocked exhaust ventilation / Pressure relief / Cloud early warning protection

02 Efficient Energy Management

- Local optimization of edge EMS, global data analysis in the cloud
- Interconnected with the APP system to achieve division of labor, collaboration, and efficient management

03 Multi-scene applications

- Coordinated control of Photovoltaic, Energy Storage and Charging
- Fully liquid cooling design for battery and PCS, enabling operation without derating at 50°C
- IP55 protection level for core components,water-proof and dustproof
- Noise levels as low as 60dB, adaptable to supermarkets,hotels, and communities
- Operating with 100% three-phase imbalance under load at ff-Grid

Technical Specifications

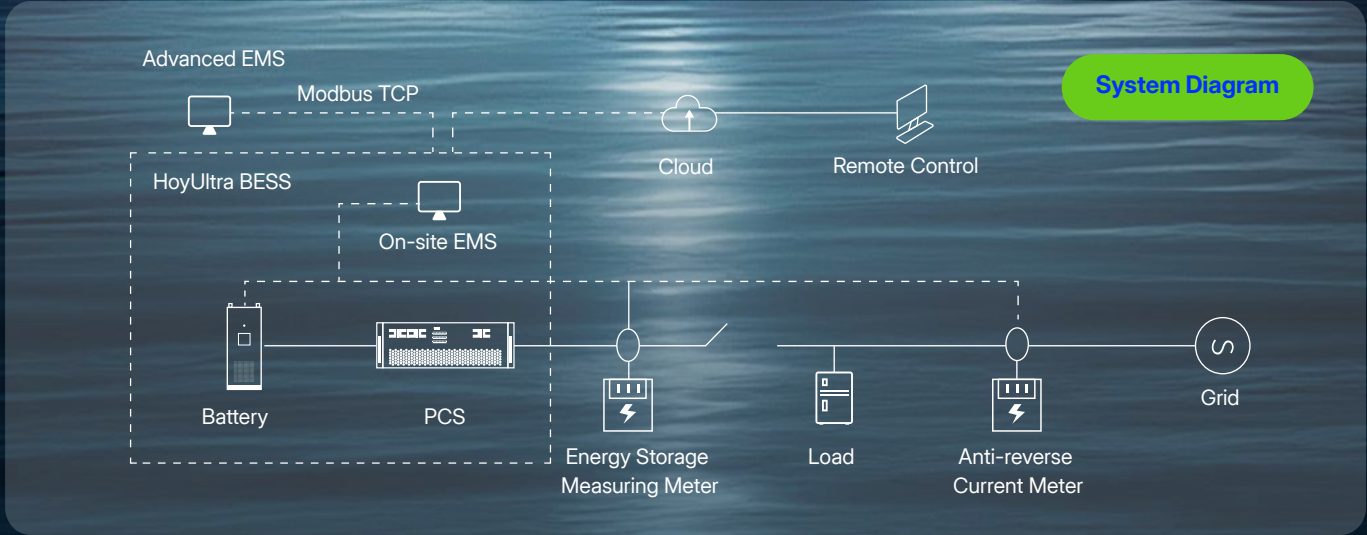
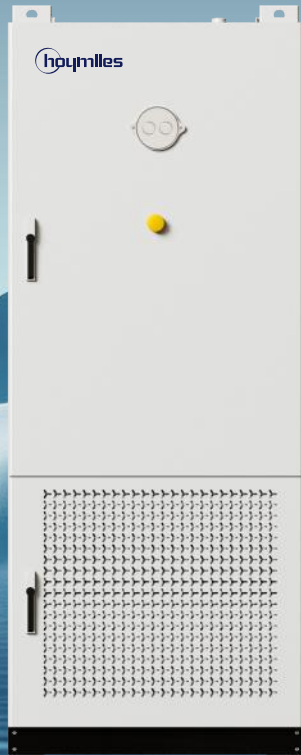
Model	HESS-261-2h
DC Side	
Cell Type	LFP3.2V / 314 Ah
Pack Configuration	1P52S / 52.25 kWh
System Configuration	1P260S
Battery Voltage Range	728 - 936 VDC
Nominal Battery Energy	261 kWh
Temperature Detection	Battery cell+Module+Positive and Negative terminals
AC Side (On-Grid)	
Rated Output Power	125 kW (@50°C)
Maximum Output Power	137.5 kW
Rated Grid Voltage Range	340 - 440 VAC
Rated Grid Frequency	50/60 Hz , ±5Hz
THDi	< 3% (@rated power)
Grid Type	3P3W / 3P4W
AC Side (Off-Grid)	
Rated Output Power	125 kW (@ 50°C)
Rated Output Voltage Range	340 - 440 VAC
Rated Grid Frequency	50/60 Hz
THDu	< 3% (Linear load)
DC Injection	< 1% U _n (Balanced linear load)
Efficiency	
Rated Round-trip Efficiency	≥ 88.4%
Maximum Round-trip Efficiency	90.3%
Overload	
Overload Capacity	Operate for a long time at 1.1 times (137.5 kW @45°C), Operate for no less than 1 minutes at 1.2 times the rated load
General Data	
Dimensions (W×H×D)	1030 mm × 2450 mm × 1400 mm
Weight	< 2700 kg
Operating Temperature	-30 to +55°C (> 50°C, derating operation)
Operating Humidity	0 - 100%RH (non-condensing)
Altitude	≤ 2000 m (Optional ≤ 4000 m)
IP Rating	IP55
Cooling Method	Fully liquid cooling (PCS + Battery)
Noise	70 dB (Optional 60 dB)
Rated Charge/Discharge Rate	≤ 0.5P
Fire Suppression System	Perfluorohexanone + PACK-level fire protection + Water fire protection + Interlocked exhaust ventilation +Pressure relief (Optional) + Aerosol (Optional)
AC Inlet Method	Front bottom inlet
Display and Communication	
Communication Interface	RS485、Ethernet、DIO
Communication Protocol	MODBUS-RTU、MODBUS-TCP、DL/T645
Cloud Service	Default S-Miles APP (Support third-party cloud platforms)
Standard and Regulation	
Grid Code Compliance	GBT 34120-2023, EN 50549-1/-2/-10, PGMcv 1.4, Synergrid Listed, G99/1-10/03.24, ENA Listed, VDE-AR-N 4105/11.18, DIN VDE V 0124-100/06.20, VDE-AR-N 4110/4120, ZEREZ Listed, CEI 0-21, CEI 0-16, RESP-73/2020, 2016/631 EU-(NC RfG), PSE 2018, PTPIREE Listed, RD244, UNE217001:2020, RD647:2020, UFD Listed, IEC 62116, IEC61727
Production Compliance	EN/IEC 62477-1:2012, IEC 62619:2022, EN IEC 61000-6-2/4:2019, IEC 63056:2020, GB/T 34131-2023, GB/T 36276-2023, UN38.3 Rev.8, IEC60730-1 AnnexH, IEC 61683, EN&IEC 62920

* Subject to change without notice.

HOYULTRA ALL-IN-ONE BATTERY SYSTEM

A standalone system with an integrated multilevel BMS ensures exceptional safety, while multi-DC fuse protection guarantees fastbreaking and anti-arc safety. Advanced thermal management ensures cell consistency and extends cycle life, with a one-string-one-management approach for enhanced usable capacity. Easily transportable and pre-assembled, saves the installation time on site. Supports multicabinet parallel connection and offers PQ, VF, black start, and more. Enhanced safety features include a fire suppression system, gas detection, and an emergency shutdown function for added protection.

HoyUltra

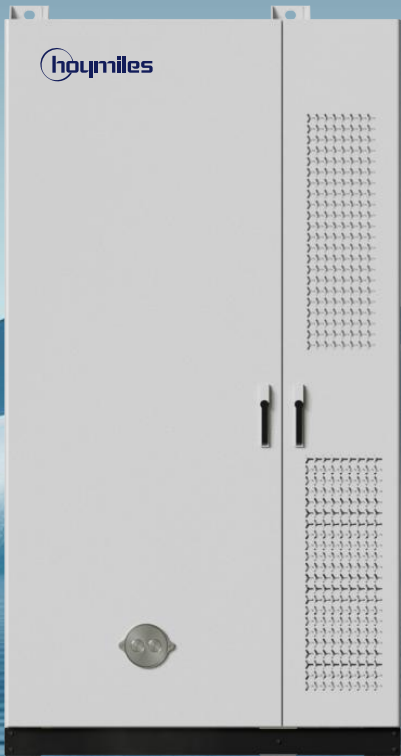


Technical Specifications

DC Side	
Battery Type	LFP (Lithium Iron Phosphate)
Configuration	1P240S
Rated Capacity (Ah)	280
Battery Capacity (BOL) (kWh)	215
Rated Voltage (V)	768
Rated Power (kW)	100
Rated Charge (Discharge) Rate	0.5C
Operating Voltage Range (V)	672 to 864
Standard Charge (Discharge) Current (A)	140
Cooling	Liquid Cooling
Coolant	Ethylene Glycol: Aqueous Solution (50%v: 50%v)
Cycles	8000
Fire Suppression System	NOVEC1230 (Perfluorohexanone)
Fire Suppression Equipment	Somke Detector, Temperature Detector, Flammable Gas Detector
AC Side	
Rated AC Power (kW)	100
AC Overload Capacity (kVA)	110
AC Connection	Three-phase, Four-wire System
Rated Grid Voltage (V)	380/400
Rated Grid Frequency (Hz)	50/60
Total Harmonic Distortion of Current	< 3% (at Nominal Power)
Power Factor	> 0.99 (at Nominal Power)
Voltage Regulation Accuracy	≤ ±2%
Current Regulation Accuracy	≤ ±5%
Max. Conversion Efficiency	98%
Cooling	Air Cooling
Battery System	
Operating Temperature Range (°C)	-30 to 55 (> 45 Derating)
Noise (dB)	< 75
Dimensions (W × D × H) (mm)	935 × 1250 × 2380
Weight (T)	2.3 ± 0.1
Anti-corrosion	C4
IP Rating	Battery Compartment: IP65 Electrical Compartment: IP54
Operating Humidity	0 to 95% (Non-condensing)
Operating Altitude (m)	≤ 3000 (> 2000 Derating)
Efficiency	Up to 86%
Communication Interface	CAN, Ethernet
Communication Protocol	Modbus TCP
Operating Modes	
Peak Shaving and Valley Filling	Yes
Demand Control	Yes
Economic Operation Mode	Yes
Reactive Power Regulation	Yes
Grid Dispatch Interface	Yes
Remote Dispatch Interface	Yes
Local Data Storage	Yes
Anti-reverse Current	Yes
Certification	
BMS	IEC/EN 60730-1: 2020 Annex H, UL60730-1: 2016 Annex H, GB/T 34131-2017
Battery/System	GB/T 36276-2018, IEC 62619-2017, ANSI/CAN/UL 1973: 2022, ANSI/CAN/UL 9540A: 2019, UN 38.3, EN 62477-1: 2012+A11: 2014+A1: 2017+A12: 2021, EN IEC 61000-6-1: 2019, EN IEC 61000-6-2: 2019, EN IEC 61000-6-3: 2021, EN IEC 61000-6-4: 2019
PCS	CE, GB/T 34120, GB/T 34133, EN 50549-1: 2019+AC: 2019-04, EN 50549-2: 2019+AC: 2019-03, CEI 0-21, CEI 0-16, NRS 097-2-1: 2017, EN 50549+Deviations of Netherlands, EN 50549+C10/11: 2019, EN 50549+Deviations of Greece, EN 50549+Deviations of Sweden, NC RFG, PTPIREE, G99, VDE-AR-N 4105: 2018, DIN VDE V 0124-100: 2020-06, UNE 217001: 2020, UNE 217002: 2020, NTS V2.1

HOYCORE OUTDOOR BATTERY SYSTEM

HoyCore



Features

01 Efficient and Flexible

- Utilizing intelligent liquid cooling to minimize power consumption and extend system life. Enhanced scalability with seamless stack additions.

02 Intelligent and User-friendly

- Advanced big data management continuously monitors cell status, offering real-time predictions and warnings to identify potential issues early.

03 Safe and Reliable

- Multi-layer insulation for enhanced safety, a three-level short-circuit protection system to minimize risks, and a comprehensive three-level fire protection system for rapid thermal runaway suppression.

04 Easy Maintenance

- Automatic rehydration eliminates manual intervention. Fault reporting and SOC calibration to eliminate the need for frequent inspections and operational shutdowns.

Technical Specifications

DC side

Battery Type	LFP (Lithium Iron Phosphate)
Configuration	1P384S
Rated Capacity (Ah)	280
Battery Capacity (BOL) (kWh)	344
Rated Voltage (V)	1228.8
Rated Charge (Discharge) Rate	0.5C
Operating Voltage Range (V)	1075.2 to 1382.4
Standard Charge (Discharge) Current (A)	140
Cooling Mode	Liquid Cooling
Coolant	Ethylene Glycol: Aqueous Solution (50%v: 50%v)
Fire Suppression System	NOVEC1230 (Perfluorohexanone)
Fire Safety Equipment	Smoke Detector, Temperature Detector, Flammable Gas Detector

Compliance

BMS	GB/T 34131-2017, IEC/UL 60730
Battery	GB/T 36276-2018, IEC 62619, UL 1973, UL 9540A, UL 9540, NFPA 69, NFPA 855

POWER CONVERSION SYSTEM

HPCS125 is based on ANPC, Peak efficiency >98.7%; Intelligent liquid cooling; Higher power density and smaller size; no derating up to 45°C; IP65, adapting to high salt, high humidity, high temperature, high evaporation and other complex and harsh operating environments.

HPCS125



Features

01 Compact construction, efficient conversion

- ANPC topology, peak efficiency > 98.7%
- Intelligent liquid cooling, no derating up to 45 °C
- Higher power density and smaller size
- Adapted to high altitude, up to 5000 m
- IGBT Delta-T < 2°C, extend service life

02 Multi-scene applications

- Support L/HVRT, stable operation in weak grid, efficient and adaptable
- Comply with GB/T 34120-2023
- Managing low harmonics and three-phase power imbalances
- 3P4W grid type, Supports 100% single-phase unbalanced loads in off-grid mode

03 High compatibility, quick adjustment

- DC voltage range 580 V to 1000 V, rated output power 125 kW, compatible with various specifications of battery cells (280 AH to 320 AH)
- Supports on-grid, off-grid, and hybrid (on/off-grid) modes, constant voltage, constant current and constant power in battery charge/discharge

04 Comprehensive protection, safe and reliable

- IP65, Explosion-proof housing, safe and reliable
- Load switch, fuses and buffer circuit on DC side
- Over-voltage and over-current protection, linkable with BMS and EMS, realization of multiple protections
- Grouped protection to reduce the barrel effect
- Fault filtering, 500 ms duration

Technical Specifications

Model	HPCS125
DC Side	
DC voltage range	580 V to 1000 V
Maximum continuous DC-side current @45°C	214.8 A
Number of inputs	1
AC Side (On-Grid)	
Rated output power @50°C	125 kW
Maximum continuous output power @45°C	137.5 kW
Rated current @50°C	180.4 A
Maximum continuous AC-side current @45°C	198.5 A
Rated AC voltage	400 V
AC voltage range	340 V to 440 V
Rated grid frequency / grid frequency range	50 Hz / 45 Hz to 55 Hz
DC injection	< 0.5% * rated current
AC current harmonic	< 2% (@rated power)
Power factor	> 0.99 (@rated power)
Power control precision	≤1%Pn (output power > 20% * Pn)
Reactive power adjustment range	-105% to +105%
Grid type	3P3W / 3P4W (compatible)
Charge/discharge switching time	< 20 ms
AC Side (Off-Grid)	
Rated AC voltage	400 V, 3W + PE + (N)
AC voltage range	340 V to 440 V
Rated grid frequency / grid frequency range	50 Hz / 45 Hz to 55 Hz
Output voltage imbalance	< 2% (< 4% in short time)
AC voltage harmonic	< 2% (off-grid with no load or rated resistive load)
DC component of AC-side voltage	< 0.5% Un (balanced linear load)
Unbalance load capacity	100% (single-phase load 41.6kVA)
Efficiency	
Peak efficiency	> 98.7%
Protection and Overload	
DC input / reverse polarity protection	Load switch + Fuses
Surge protection	DC Type II / AC Type II
Grid monitoring and grounding fault monitoring	Integrated
Insulation monitoring	Integrated
Overheat and overtemperature protection	Integrated
Short circuit protection	Integrated
DC overvoltage and undervoltage protection	Integrated
AC line phase sequence error protection	Integrated
Cooling system failure protection	Integrated
Communication failure protection	Integrated
Anti-islanding protection	Integrated, Combination of active and passive
Overload capacity	Operate for a long time at 1.1 times the rated load. Operate for no less than 2 minutes at 1.2 times the rated load
General Data	
Dimensions (W×H×D)	650 × 250 × 750 mm
Weight	75 kg
Operating temperature	-35 to +60°C (> 45°C, derating operation)
Operating humidity	0 to 100%RH (non-condensing)
Altitude	≤5000 m (> 3000 m, derating operation)
IP rating	IP65
Cooling method	Intelligent liquid cooling
Isolation method	Transformerless isolation
Overvoltage degree	DC port : II, AC port : III
Display and Communication	
Display	LED + S-Miles Installer App
Communication interface	RS485, CAN, Ethernet, Wi-Fi
Communication protocol	MODBUS-RTU, CAN2.0, MODBUS-TCP
Standard and Regulation	
Compliance	GB/T 34120, GB/T 34133, GB/T 36547, IEC/EN 62477, IEC/EN 61000, IEC/EN 50549

* Subject to change without notice.

HP02CUBE CONTAINERIZED BATTERY ENERGY STORAGE SYSTEM

HoyPrime 1MW/2MWh



Features

01 Cost-effective and Efficient

- Intelligent liquid cooling reduces auxiliary power consumption and extends lifespan.
- The compact, non-walk-in design increases energy density in a smaller footprint.

02 Smart and Friendly

- Comprehensive cell status monitoring provides early warnings for potential issues.
- High-level protection ensures performance in extreme environments.
- Standardized external interfaces simplify on-site installation.

03 Safe and Reliable

- Multi-layer insulation enhances safety.
- Three-level short-circuit protection minimizes risks.
- A comprehensive three-level fire protection system ensures swift suppression of thermal runaway

04 Easy Maintenance

- Automatic coolant replenishment, fault reporting, and SOC calibration eliminate the need for manual intervention or system downtime.

Technical Specifications

Model	HoyPrime 1MW/2MWh Containerized Battery Energy Storage System
DC side	
Battery Type	LFP (Lithium Iron Phosphate)
Configuration	6P384S
Rated Energy (MWh)	2.064
Rated DC Voltage (V)	1228.8
Rated Charge/Discharge Rate	0.5C
Operating Voltage Range (V)	1075.2 to 1382.4
Standard Charge/Discharge Current (A)	840
Cooling Mode	Liquid Cooling
Coolant	Ethylene Glycol: Aqueous Solution (50%v: 50%v)
Cycles	8000
Fire Extinguisher	NOVEC1230 (Perfluorohexanone) / FM200 (Heptafluoropropane), Water-Based Fire Suppression
Detector Type	Temperature Detector, Smoke Detector, Combustible Gas Detector
AC Side	
Rated AC Power (MW)	1
Rated AC continuous current (A)	836
Maximum AC Power (MW)	1.1
Maximum AC current (A)	920
Rated Grid Voltage (V ac)	690 (-15% to 10%)
Rated Grid Frequency (Hz)	50/60 (-5 to 5)
Total Harmonic Distortion (@ nominal power)	<3%
Power Factor (@nominal power)	> 0.99
Voltage Regulated Accuracy	±1.5%
Current Regulated Accuracy	±1%
Maximum Conversion Efficiency	99%
Cooling Mode	Liquid Cooling
General Parameters	
Operating Temperature Range (°C)	-30 to 55 (> 45°C derating)
Noise (dB)	<80
Dimensions (L x W x H [mm])	6058 x 2438 x 2896
Weight (T)	28±0.5
Anti-corrosion Degree	C4
IP Rating	IP54
Relative Humidity	0 to 95% (non-condensing)
Standard Altitude (m)	≤ 3000 (>3000 m derating)
Charging/Discharging Efficiency	≥93%, (25°C ± 2°C, 0.5C)
Communication Interface	CAN, Ethernet, RS485
Communication Protocol	Modbus TCP/RTU, IEC 61850, GOOSE
Features	
Peak Shaving and Valley Filling	Yes
Demand Control	Yes
Economic Operation Mode	Yes
Reactive Power Regulation	Yes
Grid Dispatch Interface	Yes
Remote Dispatch Interface	Yes
Local Data Storage	Yes
Compliance	
BMS	GB/T 34131-2023, IEC/UL 60730
Battery	GB/T 36276-2018, IEC 62619, UL 1973, UL 9540A
PCS	IEC 61000, VDE-AR-N 4110: 2018, VDE-AR-N 4120: 2018, G99, NTS 631 V2.1 (Type B/C/D), GB/T 34120-2017, GB/T 34133-2017, IEC 62477-1, EN 50549

UTILITY SCENARIO

Solar Solution

Hoymiles supplies string inverters, data transfer units, and subarray controllers for utility power plants. Designed for demanding environments—including deserts, mountains, and agro-photovoltaic sites—the system ensures reliable operation while supporting grid dispatch and stabilization.



SOLUTION HIGHLIGHTS

Available For Complex Scenarios

Adapts to mainstream high-power modules with 75A DC input each MPPT.

Advanced MPPT Technology

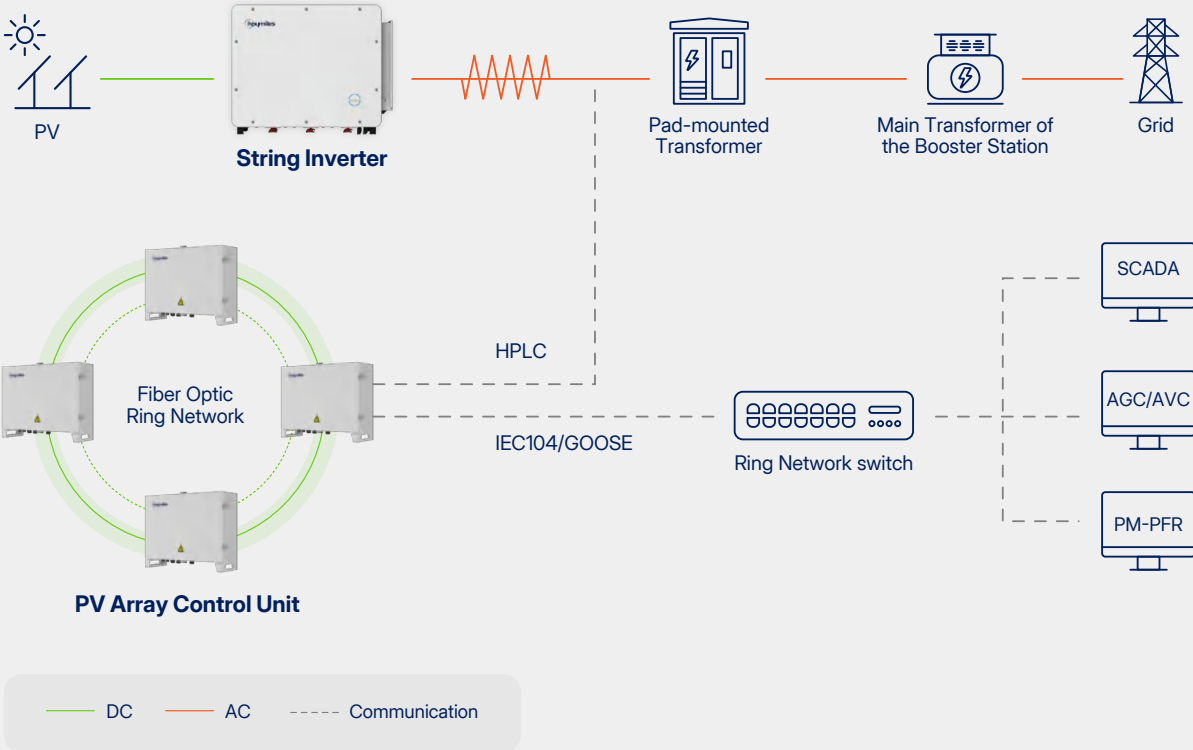
The patented algorithm achieves dynamic MPP tracking efficiency above 99.7%.

Extend Module Lifespan

Daytime PID prevention and nighttime recovery minimizes generation loss.

Grid-Friendly Performance

Enable stable integration into weak grids while maintaining high power quality.



What Hoymiles Offers



GRID-TIED STRING INVERTER



ARRAY CONTROL UNIT



DATALOGGER

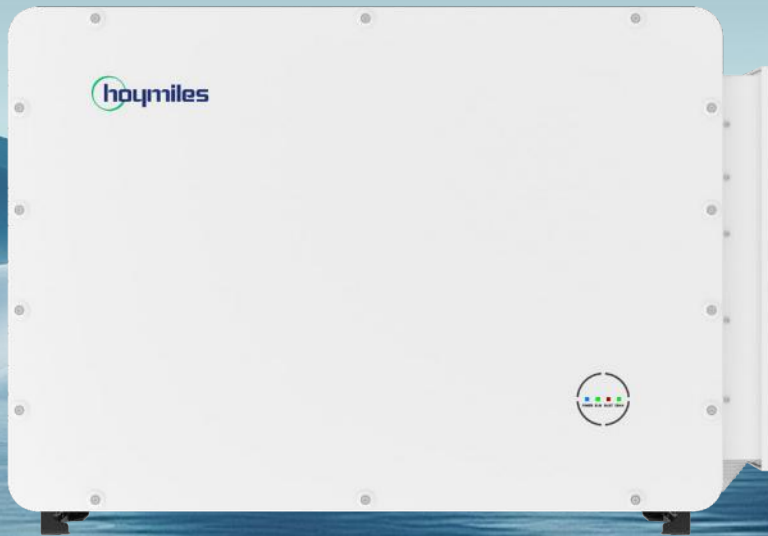


MONITORING PLATFORM

GRID-CONNECTED PV INVERTER

1500V high power density PV inverter is suitable for many complex and harsh scenarios. Advanced topology and software control ensure the high efficiency, reliability, and stability of product operation. Innovative grid-connected algorithms and broadband PLC technology enable fast response to grid dispatching and effectively support the grid.

HINV350HX-G2 Series



Features

- 01

6*75A MPPT, compatible with 182&210mm module.
- 02

Power line communication (PLC).
- 03

SCR ≥ 0.99 stable operation in extremely weak grid.
- 04

IP66 and high anti-corrosion.
- 05

Max. Efficiency 99.05%, EU Efficiency 98.8%.
- 06

PV string monitoring and intelligent breaking technology.
- 07

Level 4 I-V Curve Diagnostic.
- 08

Multi-Safety Protection Design including AFCI

Technical Specifications

Model	HINV350HX-G2	HINV330HX-G2	HINV320HX-G2	HINV300HX-G2
Input				
Max. PV Input Voltage	1500 V			
MPPT Voltage Range	500 - 1500 V			
Start-up Voltage	550 V			
Nominal PV Input Voltage	1160 V			
Max. PV Input Current per MPPT	75 A			
Max. PV Short Circuit Current per MPPT	125 A			
Number of MPPT	6			
Number of PV Input	30			
AC Output				
Nominal Output Power	350 kW	330 kW	320 kW	300 kW
Max. Output Power	352 kW	330 kW	352 kW	330 kW
Max. Output Apparent Power	352 kVA	330 kVA	352 kVA	330 kVA
Nominal Output Voltage	800V, 3L / PE			
Nominal Output Frequency	50/60 Hz			
Nominal Output Current	253 A	238 A	231 A	217 A
Max. Output Current	254 A	238 A	254 A	238 A
Power Factor	~1 (0.8 leading to 0.8 lagging)			
THDi	<1% (at nominal power)			
Efficiency				
Max. Efficiency	99.05%			
European Efficiency	98.8%			
Protection				
PV String Current Monitoring	Integrated			
PV Insulation Detection	Integrated			
Residual Current Monitoring Unit	Integrated			
DC Reserve Connection Protection	Integrated			
Anti-island Protection	Integrated			
AC Short Circuit Protection	Integrated			
AC Overvoltage Protection	Integrated			
DC Switch	Integrated			
DC Surge Protection	Type II			
AC Surge Protection	Type II			
Reactive Power Compensation at Night	Integrated			
Protective Class	Class I			
Overvoltage Category	III[AC], II[DC]			
AFCI	Optional			
Anti-PID & PID recovery	Optional			
General Data				
Dimensions (W×H×D)	1147 × 800 × 362 mm			
Weight	< 120 kg			
Operating Temperature	-30 to +60 °C			
Operating Humidity	0 - 100%RH (non-condensing)			
Altitude	4000 m			
IP Rating	IP66			
Cooling Method	Smart Air Cooling			
Isolation Method	Non-isolated			
AC Connection	OT/DT Terminal (Max. 400 mm²)			
Display, Communication and Standard				
Display	LED, Bluetooth+S-Miles APP			
Communication Interface	RS485, PLC			
Executive Standards	IEC/EN 62109-1/-2			

* Subject to change without notice.

SMART ARRAY CONTROL UNIT

This product is suitable for data access and monitoring of sub-arrays utility scale and distributed PV plant. It integrates devices such as a datalogger, fiber switch, fiber termination box and other device, supports multiple installation and communication methods. It supports outdoor applications with Integrated SPD and the high protection rating.

HACU4000P



Features

- 01

Support RS485, Ethernet and HPLC communication methods.
- 02

Support integration of tracker, meteo station, sensors and other equipment.
- 03

IP65 and high anti-corrosion.
- 04

Supports batch parameter configuration and software upgrading for inverters.

Technical Specifications

Model	HACU4000P
Configuration	
RS485 Interface	6
Ethernet Port	5 × 10 / 100 Mbps ETH 1 / 2 Fast dispatch port(GOOSE) ETH 0 / 3 / 4 Ethernet port
HPLC	1 × PLC (2 × PLC Optional)
Fibre Switch	2 Optical ports, 6 Electrical ports
Fiber Termination Box	4-Input and 24-Output, SC single-mode
Micro Vertical Encryption Device	1 (Optional)
External PLC CCO	1 (Optional)
PID Protection Module	1 or 2 (Optional)
Power Supply	
AC Input	200 to 240 VAC, 50/60 Hz
General Data	
Dimensions (W×H×D)	850 mm × 680 mm × 275 mm
Weight	< 35 kg
Operating Temperature	-30°C to +60°C
Storage Temperature	-40°C to +70°C
Operating Humidity	0 - 100%RH (non-condensing)
Altitude	5000 m
Anti-Corrosion Class	C4-M (Standard), C5-M (Optional)
IP Rating	IP65
Installation Method	Wall Mounting, Bracket Mounting, Pole Mounting

* Subject to change without notice.

DATALOGGER

This product is suitable for equipment data access, energy management, and data transmission of utility scale and distributed PV plant. It supports data access and protocol conversion for meteo stations, meters, inverters, and MV stations, enabling subarray energy management and edge computing. It integrates multiple communication interfaces and protocols.

HLogger4000



Features

- 01

Support RS485, Ethernet and HPLC communication methods.
- 02

Support automatically searching and allocating inverter addresses.
- 03

Active and reactive power control.
- 04

Reactive power 30ms fast dispatch with GOOSE protocol.
- 05

Dual power supply system with automatic switching.
- 06

PV-Plant maintenance via remote Web access.

Technical Specifications

Model	HLogger4000
Configuration	
Max. Number of Devices	200
RS485 Interface	6 (Recommended maximum: 20 devices per single channel)
Ethernet Port	5 × 10 / 100 Mbps ETH 1 / 2 Fast dispatch port(GOOSE) ETH 0 / 3 / 4 Ethernet port
HPLC	1
DI	8
DO	4
AI	4 (AI1: 0 - 10 VDC, AI2 - AI4: 4 - 20 mA)
PT100 / 1000	2, Supports 2-wire and 3-wire sensors
Communication	
RS485	Modbus-RTU, DL / T645
Ethernet	IEC 104, IEC 61850, Modbus-TCP
Power supply	
AC Input	100 - 277 V, 50/60 Hz
DC Input	24 V, 1.25 A
DC Output	12V, 0.1A
Power Consumption	Typical: 15W, Max.: 30 W
General Data	
Dimensions (W×H×D)	370 × 44 × 216 mm
Weight	< 2 kg
Operating Temperature	-30 to +60°C
Storage Temperature	-40 to +70°C
Operating Humidity	0 - 100%RH (non-condensing)
Altitude	5000 m
IP Rating	IP20
Installation Method	Wall Mounting, Bracket Mounting
Interaction	
LED	LED x 4
WEB	Embedded Web

* Subject to change without notice.

UTILITY SCENARIO

Storage Solution

Hoymiles delivers integrated generation-side energy storage solutions with centralized PCS, PCS-MV stations and containerized battery systems. Suitable for diverse scenarios, these intelligent products offer rapid response and high reliability for streamlined centralized management.



SOLUTION HIGHLIGHTS

Compact Design

Smart liquid cooling reduces power use and boosts energy density.

Extreme Safety

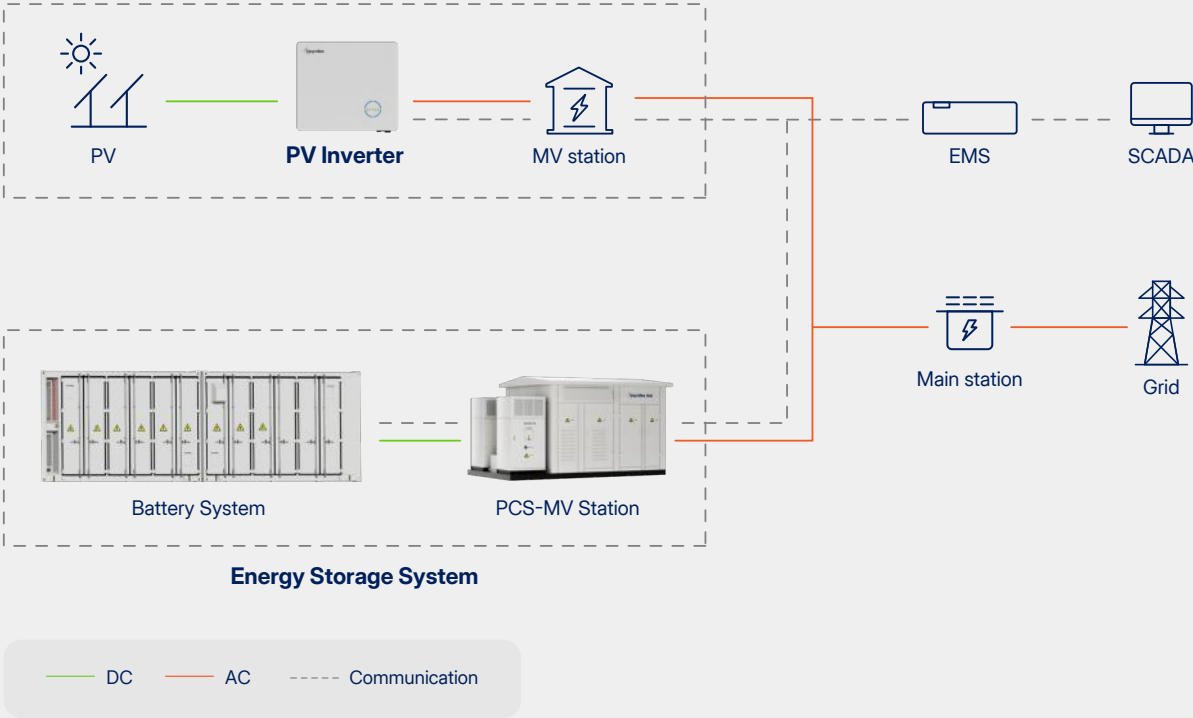
Triple-layer fire system ensures safety with early warnings.

Grid Resilience

Supports H/LVRT and adapts to weak grid conditions with ease.

Black Start Capable

Enables black start for grids at the hundred-megawatt level.



What Hoymiles Offers



CONTAINERIZED BATTERY ENERGY STORAGE SYSTEM

HoyPrime 5MW/10MWh



Features

01 Cost-effective and Efficient

- Higher energy density with a reduced footprint, achieving 15% savings in construction costs.
- DC-Side Intelligent liquid cooling reduces auxiliary power consumption and extends lifespan.

02 Safe and Reliable

- Multi-layer insulation and four-level short-circuit protection enhances safety and reliability.
- A multi-level water fire suppression system integrated with pressure relief design ensures rapid response to fire and explosion.
- Proactive detection capability enables early identification of thermal runaway and prevents its propagation.

03 Scalable and Optional

- C5 anti-corrosion combined with stable high-altitude operation ensures adaptability to multiple harsh environment.
- Supports multi-unit parallel connection for scalable system power expansion.

04 Smart and Friendly

- Unified interface to simplify the delivery process.
- Automatic fluid replenishment, no manual intervention.
- Big data analytics enables proactive anomaly detection and resolution, reducing O&M frequency

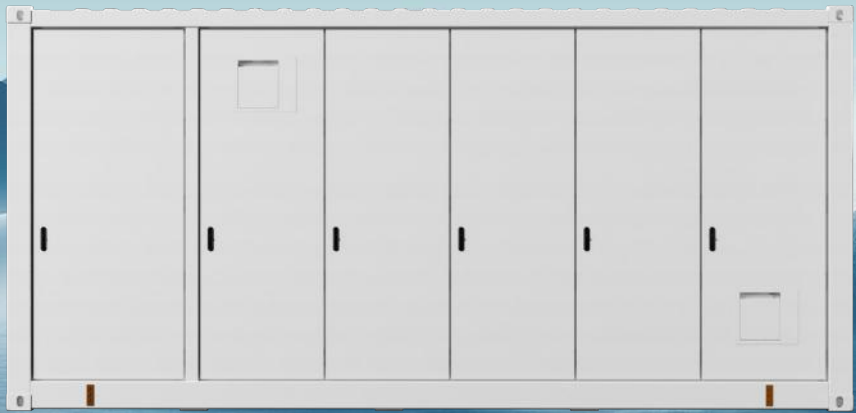
Technical Specifications

Model	HoyPrime 5MW/10MWh
DC Side	
Battery Type	LFP
Configuration	12P416S x 2
Rated Energy (MWh)	10.03
Rated DC Voltage (V)	1331.2
Rated Power (MW)	5
Rated Charge/Discharge Rate	0.5C
Operating Voltage Range (V)	1164.8 - 1497.6
Standard Charge/Discharge Current (A)	1884 x 2
Cooling Mode	Liquid Cooling
Coolant	Ethylene Glycol: Aqueous Solution (50%v: 50%v)
Cycles	8000
Fire Extinguisher	Perfluorohexanone / Heptafluoropropane (Optional) + Water Fire Fighting
Detector Type	Temperature Detector, Smoke Detector, Combustible Gas Detector
AC Side	
Rated AC Power (MW)	2.5 x 2
Rated AC Voltage (V)	690, 3P3W
Grid Voltage Range (kV)	10 - 35
Grid Frequency (Hz)	50/60
THDi	< 3% (Linear load)
DC Component of AC-Side Voltage	< 0.5% U _n (Balanced linear load)
Power Factor	> 0.99 (@nominal power)
Maximum Conversion Efficiency	99%
System Data	
Operating Temperature Range (°C)	-30°C to 55°C(> 45°C, derating operation)
Noise (dB)	< 80
Dimensions (W x D x H [mm])	Battery Compartment: 6058 x 2438 x 2896 * 2 PCS -MV Station: 6300 x 3200 x 3100
Weight (T)	2 x 43 + 25
Anti-corrosion Degree	C4/C5 (Optional)
IP Rating	Battery Container: IP54 ; PCS: IP65
Relative Humidity	0 to 95% (non-condensing)
Standard Altitude (m)	≤ 3000
Charging/Discharging Efficiency	86%
Communication Interface	CAN, Ethernet, RS485
Communication Protocol	ModbusTCP/RTU, IEC61850, Goose
Features	
Peak Shaving and Valley Filling	Integrated
Demand Control	Integrated
Economic Operation Mode	Integrated
Reactive Power Regulation	Integrated
Grid Dispatch Interface	Integrated
Remote Dispatch Interface	Integrated
Local Data Storage	Integrated
Standard and Regulation	
BMS	GB/T34131, UL60730
Battery	GB/T 36276, IEC62619, UL1973, UL9540A
PCS	GB/T 34120, GB/T 34133, EN50549, IEC62477, IEC61000

* Subject to change without notice.

HOYPRIME HP01CUBE BATTERY CONTAINER

HoyPrime 1.725MW/3.44MWh



Features

01 Cost-effective and Efficient

- Intelligent liquid-cooling to reduce auxiliary power consumption and extend the lifespan for enhanced economic benefits. The non-walk-in design provides higher energy density in a more compact space

02 Smart and Friendly

- Monitoring cell status comprehensively, offering early warnings for potential issues. High-level protection ensures adaptability to diverse extreme environments. Standardize external interfaces to streamline on-site installation processes

03 Safe and Reliable

- Multi-layer insulation for enhanced safety, a three-level short-circuit protection system to minimize risks, and a comprehensive three-level fire protection system for swift suppression of thermal runaway

04 Easy Maintenance

- Automatically replenish coolant, report faults, and calibrate SOC without manual intervention or system downtime for maintenance

Technical Specifications

DC side

Battery Type	LFP (Lithium Iron Phosphate)
Configuration	10 × (1P48S × 8)
Battery Capacity (BOL) at DC side (kWh)	3440
Nominal DC Voltage (V)	1228.8
Rated Charge/Discharge Rate	0.5C
Operating Voltage Range (V)	1075.2 to 1382.4
Standard Charge/Discharge Current (A)	1400
Cooling Mode	Liquid cooling
Coolant	Ethylene Glycol: Aqueous Solution (50%v: 50%v)
Fire Extinguisher	NOVEC1230/ FM200 (optional) ; water fire fighting
Fire Safety Equipment	Smoke, heat & flammable gas detector

Battery System

Operating Temperature Range (°C)	-30 ~ 55 (> 45°C derating)
Noise (dB)	<80
Dimensions (W × D × H [mm])	6058 × 2438 × 2896
Weight (T)	34.5 ± 0.5
Anti-corrosion	C4/C5 (optional)
IP Rating	Battery Compartment: IP54/IP55 (optional) Electrical Compartment: IP54
Relative Humidity	0 to 95% (non-condensing)
Standard Altitude (m)	≤ 3000 (>3000 derating)
Communication Interface	CAN, Ethernet, RS485
Communication Protocol	ModbusTCP/RTU

Compliance

BMS	GB/T34131-2017; IEC/UL 60730
Battery	GB/T 36276-2018; IEC 62619; UL 1973; UL 9540A

CENTRALIZED POWER CONVERSION SYSTEM

HPCS2500, a newly launched high-power conversion system by Hoymiles along with the HPCS1250N-HPCS1725 products, provides customers with a more comprehensive energy storage system solution. This PCS is based on the ANPC topology with peak efficiency >99%. The power density of HPCS2500 is among the highest in the industry, with a floor space of less than 1.5 m². It features intelligent liquid cooling, no derating up to 45 °C, full power operation at DC 1500 V, and IP65 with C5 anti-corrosion protection, adapting to many complex and harsh scenarios.

HPCS2500



Features

01 Compact construction, efficient conversion

- Industry-leading power density, floor space <1.5m²
- ANPC topology, PCS peak efficiency > 99%
- Intelligent liquid cooling, no derating up to 45°C
- Full power operation at DC 1500 V

02 Multi-scene applications

- Supports on-grid, off-grid, and hybrid (on/off-grid) modes
- Operable in high-altitude, high-salt, high-temperature and extremely-low-temperature scenarios
- Four-quadrant operation, constant voltage, constant current and constant power in battery charge/discharge
- Supports VSG control

03 High compatibility, quick adjustment

- Equipped with grid-forming and inertia support capabilities, stable voltage establishment and regulation can be achieved within milliseconds
- Support L/HVRT, stable operation in weak grid, efficient and adaptable
- Charge/discharge switching time <20ms, support GOOSE

04 Comprehensive protection, safe and reliable

- IP65 and C5 anti-corrosion
- Over-voltage and over-current protection, linkable with BMS and EMS, realization of multiple protections
- 250kA short circuit breaking capacity on DC side
- Graded protection for over/under voltage and over/under frequency

Technical Specifications

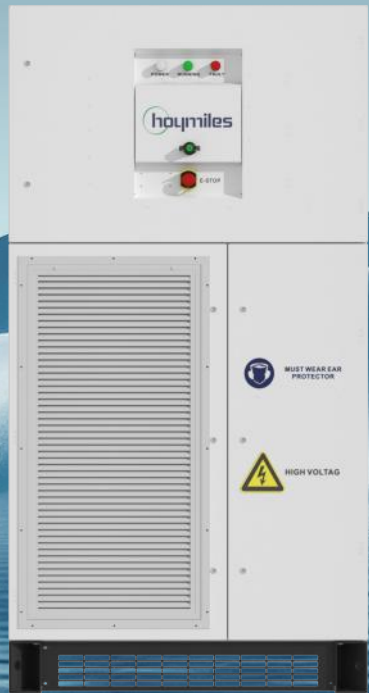
Model	HPCS2500
DC Side	
DC voltage range	1000 to 1500V
Maximum continuous DC-side current	2806A
Number of inputs	1
AC Side (On-Grid)	
Rated output power	2500kVA
Maximum continuous output power	2750kVA
Rated current	2092A
Maximum continuous AC-side current	2301A
Rated AC voltage	690V
AC voltage range	586 to 759V
Rated grid frequency / grid frequency range	50Hz / 45 to 55Hz
DC injection	< 0.5% I _n
AC current harmonic	< 3% (@rated power)
Power factor	> 0.99 (@rated power)
Power control precision	≤1%P _n (output power > 20% * P _n)
Reactive power adjustment range	-105% to +105%
Grid type	3P3W
Charge/discharge switching time	< 20ms
AC Side (Off-Grid)	
Rated AC voltage	690V
AC voltage range	586 to 759V
Rated grid frequency / grid frequency range	50Hz / 45 to 55Hz
Output voltage imbalance	< 2% (< 4% in short time)
AC voltage harmonic	< 3% (Linear load)
DC component of AC-side voltage	< 0.5% U _n (balanced linear load)
Efficiency	
Peak efficiency	> 99%
Protection and Overload	
DC input / reverse polarity protection	Load switch + Fuses
AC output protection	Circuit breaker
Surge protection	DC Type II / AC Type II
Grid monitoring and grounding fault monitoring	Integrated
Insulation monitoring	Integrated
Overheat and overtemperature protection	Integrated
Short circuit protection	Integrated
DC overvoltage and undervoltage protection	Integrated
AC line phase sequence error protection	Integrated
Cooling system failure protection	Integrated
Communication failure protection	Integrated
Anti-islanding protection	Integrated, Combination of active and passive
Overload capacity	Operate for a long time at 1.1 times the rated load. Operate for no less than 2 minutes at 1.2 times the rated load. Operate for no less than 10 seconds at 1.5 times the rated load.
General Data	
Dimensions (W×H×D)	1250 × 2530 ×1150 mm
Weight	1800kg
Operating temperature	-35 to +60°C
Operating humidity	0 to 100%RH (non-condensing)
Altitude	≤5000m
IP rating	IP65, C5
Cooling method	Intelligent liquid cooling
Isolation method	Transformerless isolation
Overvoltage degree	DC port : II, AC port : III
Display and Communication	
Display	HMI + LED
Communication interface	RS485, CAN, Ethernet
Communication protocol	MODBUS-RTU, CAN, MODBUS-TCP, IEC61850
Standard and Regulation	
Compliance	GB/T 34120 - 2023, GB/T 34133 - 2023

* Subject to change without notice.

CENTRALIZED POWER CONVERSION SYSTEM

The HPCS1250N-E to 1725-E series is based on ANPC topology with peak efficiency >99%. The power density of this series is among the highest in the industry, with a floor space of less than 1 m². It features intelligent liquid cooling with no derating up to 50 °C, full power operation at DC 1500 V, and IP65 with C5 anti-corrosion protection, adapting to many complex and harsh scenarios.

HPCS1250N/1375/1575/1725-E



Features

01 Compact construction, efficient conversion

- Industry-leading power density, floor space < 1 m²
- ANPC topology, PCS peak efficiency > 99%
- Intelligent liquid cooling, no derating up to 50°C
- Full power operation at DC 1500 V

02 Multi-scene applications

- Supports on-grid, off-grid, and hybrid (on/off-grid) modes
- Supports 0 power operation, no battery loss in hot standby state
- Four-quadrant operation, constant voltage, constant current and constant power in battery charge/discharge
- Supports VSG control

03 Grid friendly, stable support

- Support primary frequency regulation and rapid voltage adjustment
- Support L/HVRT, stable operation in weak grid, efficient and adaptable
- Charge/discharge switching time < 20 ms, support GOOSE

04 Comprehensive protection, safe and reliable

- IP65 and C5 anti-corrosion
- Over-voltage and over-current protection, linkable with BMS and EMS, realization of multiple protections
- 250 kA short circuit breaking capacity on DC side
- Graded protection for over/under voltage and over/under frequency

Technical Specifications

Model	HPCS1250N-E	HPCS1375-E	HPCS1575-E	HPCS1725-E
DC Side				
DC voltage range	1000 V to 1500 V	800 V to 1500 V	915 V to 1500 V	1000 V to 1500 V
Maximum continuous DC-side current @45°C	1403 A		1936 A	
Number of inputs		1		
AC Side (On-Grid)				
Rated output power @50°C	1250 kVA	1375 kVA	1575 kVA	1725 kVA
Maximum continuous output power @45°C	1375 kVA	1513 kVA	1733 kVA	1897 kVA
Rated current @50°C	1046 A		1443 A	
Maximum continuous AC-side current @45°C	1151 A		1588 A	
Rated AC voltage	690 V	550 V	630 V	690 V
AC voltage range	586 V to 759 V	467 V to 605 V	535 V to 693 V	586 V to 759 V
Rated grid frequency / grid frequency range		50 Hz / 45 Hz to 55 Hz		
DC injection		< 0.5% (@rated power)		
AC current harmonic		< 3% (@rated power)		
Power factor		> 0.99 (@rated power)		
Power control precision		≤ 1% Pn (output power > 20% * Pn)		
Reactive power adjustment range		-105% to +105%		
Grid type		3P3W		
Charge/discharge switching time		< 20 ms		
AC Side (Off-Grid)				
Rated AC voltage	690 V	550 V	630 V	690 V
AC voltage range	586 V to 759 V	467 V to 605 V	535 V to 693 V	586 V to 759 V
Rated grid frequency / grid frequency range		50Hz / 45 Hz to 55 Hz		
Output voltage imbalance		< 2% (< 4% in short time)		
AC voltage harmonic		< 3% (Linear load)		
DC component of AC-side voltage		< 0.5% Un (balanced linear load)		
Efficiency				
Peak efficiency		> 99%		
Protection and Overload				
DC input / reverse polarity protection		Load switch + Fuses		
AC output protection		Circuit breaker		
Surge protection		DC Type II / AC Type II		
Grid monitoring and grounding fault monitoring		Integrated		
Insulation monitoring		Integrated		
Overheat and overtemperature protection		Integrated		
Short circuit protection		Integrated		
DC overvoltage and undervoltage protection		Integrated		
AC line phase sequence error protection		Integrated		
Cooling system failure protection		Integrated		
Communication failure protection		Integrated		
Anti-islanding protection		Integrated, Combination of active and passive		
Overload capacity		Operate for a long time at 1.1 times the rated load. Operate for no less than 1 minutes at 1.2 times the rated load		
General Data				
Dimensions (W×H×D)		1100 × 2100 × 900 mm		
Weight	1000 kg		1100 kg	
Operating temperature		-35 to +60°C (> 50°C, derating operation)		
Operating humidity		0 to 100%RH (non-condensing)		
Altitude		≤ 5000 m		
IP rating		IP65, C5		
Cooling method		Intelligent liquid cooling		
Isolation method		Transformerless isolation		
Overvoltage degree		DC port : II, AC port : III		
Display and Communication				
Display		HMI + LED		
Communication interface		RS485, CAN, Ethernet		
Communication protocol		MODBUS-RTU, CAN, MODBUS-TCP, IEC61850		
Standard and Regulation				
Compliance		GB/T 34120, GB/T 34133, GB/T 36547, IEC/EN 62477, IEC/EN 61000, IEC/EN 50549		

* Subject to change without notice.

PCS-MV STATION

HIM5000MV integrates PCS, transformers, BCP, BSP, FFS, and SS systems, with these devices unified through EMU or local controllers. It is suitable for 5 MWh battery containers with 314/320 Ah cell integration. The system features standardized communication interfaces and protocols, supports AC 10 kV or 35 kV grid access, and offers easy transportation and installation thanks to its integrated and skid-mounted design.

HIM5000MV



Features

01 Compact construction, efficient conversion

- Industry-leading power density, 20% savings in floor space
- ANPC topology, PCS peak efficiency > 99%
- Intelligent liquid cooling, no derating up to 45°C
- Full power operation at DC 1500 V

02 Multi-scene applications

- Supports on-grid, off-grid, and hybrid (on/off-grid) modes
- Operable in high-altitude, high-salt, high-temperature and extremely-low-temperature scenarios
- Four-quadrant operation, constant voltage, constant current and constant power in battery charge/discharge
- Supports VSG control

03 Grid friendly, stable support

- Support primary frequency regulation and rapid voltage adjustment
- Support L/HVRT, stable operation in weak grid, efficient and adaptable
- Charge/discharge switching time <20ms, support GOOSE, response time <25ms
- Grid black start function integrated

Technical Specifications

Model	HIM5000MV
DC Side	
DC voltage range	1000 to 1500V
Maximum continuous DC-side current	2806A × 4
Number of inputs	2
PCS AC Side (On-Grid)	
Rated output power	5000kVA
Maximum continuous output power	5500kVA
Rated current	2092A × 4
Maximum continuous AC-side current	2301A × 4
Rated AC voltage	690V
AC voltage range	586 to 759V
Rated grid frequency / grid frequency range	50Hz / 45 to 55Hz
AC current harmonic	< 3% (@rated power)
Power factor	> 0.99 (@rated power)
Reactive power adjustment range	-105% to +105%
Grid type	3P3W
PCS AC Side (Off-Grid)	
Rated AC voltage	690V
AC voltage range	586 to 759V
Rated grid frequency / grid frequency range	50Hz / 45 to 55Hz
AC Voltage harmonic	< 3% (Linear load)
DC component of AC-side voltage	< 0.5% Un (balanced linear load)
Unbalance load capacity	100%
Efficiency	
PCS peak efficiency	> 99%
Transformer	
Rated capacity	5000kVA
Maximum capacity	5500kVA
Primary / secondary voltage	37kV / 0.69kV
Winding type	Dy11 or Dy1
Protection and Overload	
DC input / reverse polarity protection	Load switch + Fuses
AC output protection	Circuit breaker
Surge protection	DC Type II / AC Type II
Grid monitoring and grounding fault monitoring	Integrated
Insulation monitoring	Integrated
Overheat and overtemperature protection	Integrated
Short circuit protection	Integrated
Communication failure protection	Integrated
Overload capacity	Operate for a long time at 1.1 times the rated load. Operate for no less than 2 minutes at 1.2 times the rated load. Operate for no less than 10 seconds at 1.5 times the rated load.
General Data	
Dimensions (W×H×D)	6400×3100×3200 mm
Weight	21000kg (Box type / Dry-type transformer)
Operating temperature	-35 to +60°C
Operating humidity	0 to100%RH (non-condensing)
Altitude	≤5000m (> 3000m, derating operation)
IP rating	IP54 (PCS : IP65)
Cooling method	Intelligent liquid cooling
Display and Communication	
Display	HMI + LED
Communication interface	RS485, CAN, Ethernet
Communication protocol	MODBUS-RTU, CAN, MODBUS-TCP, IEC61850
Standard and Regulation	
Compliance	GB/T 34120 - 2023, GB/T 34133 - 2023

* The product is expected to be launched by the end of April.

PCS-MV STATION

HIM5175MV integrates PCS, transformers, BCP, BSP, FFS, and SS systems, with these devices unified through EMU or local controllers. It is suitable for 5 MWh battery containers with 314/320 Ah cell integration. The system features standardized communication interfaces and protocols, supports AC 10 kV or 35 kV grid access, and offers easy transportation and installation thanks to its integrated and skid-mounted design.

HIM5175MV



Features

01 Compact construction, efficient conversion

- Industry-leading power density, 20% savings in floor space
- ANPC topology, PCS peak efficiency > 99%
- Intelligent liquid cooling, no derating up to 50°C
- Full power operation at DC 1500 V

02 Multi-scene applications

- Supports on-grid, off-grid, and hybrid (on/off-grid) modes
- Supports 0 power operation, no battery loss in hot standby state
- Four-quadrant operation, constant voltage, constant current and constant power in battery charge/discharge
- Supports VSG control

03 Grid friendly, stable support

- Support primary frequency regulation and rapid voltage adjustment
- Support L/HVRT, stable operation in weak grid, efficient and adaptable
- Charge/discharge switching time <20ms, support GOOSE, response time <25ms
- Grid black start function integrated

Technical Specifications

Model	HIM5175MV
DC Side	
DC voltage range	1000 to 1500V
Maximum continuous DC-side current @45°C	1936A × 3
Number of inputs	3
PCS AC Side (On-Grid)	
Rated output power @50°C	5175kVA
Maximum continuous output power @45°C	5692kVA
Rated current @50°C	1443A × 3
Maximum continuous AC-side current @45°C	1588A × 3
Rated AC voltage	690V
AC voltage range	586 to 759V
Rated grid frequency / grid frequency range	50Hz / 45 to 55Hz
AC current harmonic	< 3% (@rated power)
Power factor	> 0.99 (@rated power)
Reactive power adjustment range	-105% ~ +105%
Grid type	3P3W
PCS AC Side (Off-Grid)	
Rated AC voltage	690V
AC voltage range	586 to 759V
Rated grid frequency / grid frequency range	50Hz / 45 to 55Hz
AC Voltage harmonic	< 3% (Linear load)
DC component of AC-side voltage	< 0.5% Un (balanced linear load)
Unbalance load capacity	100%
Efficiency	
PCS peak efficiency	> 99%
Transformer	
Rated capacity	5175kVA
Maximum capacity	5692kVA
Primary / secondary voltage	37kV / 0.69kV
Winding type	Dy11 or Dy1
Protection and Overload	
DC input / reverse polarity protection	Load switch + Fuses
AC output protection	Circuit breaker
Surge protection	DC Type II / AC Type II
Grid monitoring and grounding fault monitoring	Integrated
Insulation monitoring	Integrated
Overheat and overtemperature protection	Integrated
Short circuit protection	Integrated
Communication failure protection	Integrated
Overload capacity	Operate for a long time at 1.1 times the rated load. Operate for no less than 1 minutes at 1.2 times the rated load
General Data	
Dimensions (W×H×D)	7500 × 2800 × 3200 mm
Weight	21000kg (Box type / Dry-type transformer)
Operating temperature	-35 to +60°C (> 50°C, derating operation)
Operating humidity	0 to100%RH (non-condensing)
Altitude	≤5000m (> 3000m, derating operation)
IP rating	IP54 (PCS : IP65)
Cooling method	Intelligent liquid cooling
Display and Communication	
Display	HMI + LED
Communication interface	RS485, CAN, Ethernet
Communication protocol	MODBUS-RTU, CAN, MODBUS-TCP, IEC61850
Standard and Regulation	
Compliance	GB/T 34120 - 2023, GB/T 34133 - 2023

* Subject to actual product shipment

PCS-MV STATION

HIM2750~3450MV series integrates PCS, transformers, BCP, BSP, FFS, and SS systems, with these devices unified through EMU or local controllers. It features standardized communication interfaces and protocols, supports AC 10 kV or 35 kV grid access, and offers easy transportation and installation thanks to its integrated and skid-mounted design.

HIM2500-3450



Features

01 Compact construction, efficient conversion

- Industry-leading power density, floor space < 1m²
- ANPC topology, PCS peak efficiency > 99%
- Intelligent liquid cooling, no derating up to 50°C
- Full power operation at DC 1500 V

02 Multi-scene applications

- Supports on-grid, off-grid, and hybrid (on/off-grid) modes
- Supports 0 power operation, no battery loss in hot standby state
- Four-quadrant operation, constant voltage, constant current and constant power in battery charge/discharge
- Supports VSG control

03 Grid friendly, stable support

- Support primary frequency regulation and rapid voltage adjustment
- Support L/HVRT, stable operation in weak grid, efficient and adaptable
- Charge/discharge switching time <20ms, support GOOSE, response time <25ms
- Grid black start function integrated

Technical Specifications

Model	HIM2500MV	HIM2750MV	HIM3150MV	HIM3450MV
DC Side				
DC voltage range	1000 to 1500V	800 to 1500V	915 to 1500V	1000 to 1500V
Maximum continuous DC-side current @45°C	1403A×2		1936A×2	
Number of inputs		2		
PCS AC Side (On-Grid)				
Rated output power @50°C	2500kVA	2750kVA	3150kVA	3450kVA
Maximum continuous output power @45°C	2750kVA	3206kVA	3466kVA	3795kVA
Rated current @50°C	1046A ×2		1443A ×2	
Maximum continuous AC-side current @45°C	1151A ×2		1588A ×2	
Rated AC voltage	690V	550V	630V	690V
AC voltage range	586 to 759V	467 to 605V	535 to 693V	586 to 759V
Rated grid frequency / grid frequency range		50Hz / 45 to 55Hz		
AC current harmonic		< 3% (@rated power)		
Power factor		> 0.99 (@rated power)		
Reactive power adjustment range		-105% to +105%		
Grid type		3P3W		
PCS AC Side (Off-Grid)				
Rated AC voltage	690V	550V	630V	690V
AC voltage range	586 to 759V	467 to 605V	535 to 693V	586 to 759V
Rated grid frequency / grid frequency range		50Hz / 45 to 55Hz		
AC Voltage harmonic		< 3% (Linear load)		
DC component of AC-side voltage		< 0.5% Un (balanced linear load)		
Unbalance load capacity		100%		
Efficiency				
PCS peak efficiency		> 99%		
Transformer				
Rated capacity	2500kVA	2750kVA	3150kVA	3450kVA
Maximum capacity	2750kVA	3206kVA	3466kVA	3795kVA
Primary / secondary voltage	37kV / 0.69kV	37kV / 0.55kV	37kV / 0.63kV	37kV / 0.69kV
Winding type		Dy11 or Dy1		
Protection and Overload				
DC input / reverse polarity protection		Load switch + Fuses		
AC output protection		Circuit breaker		
Surge protection		DC Type II / AC Type II		
Grid monitoring and grounding fault monitoring		Integrated		
Insulation monitoring		Integrated		
Overheat and overtemperature protection		Integrated		
Short circuit protection		Integrated		
Communication failure protection		Integrated		
Overload capacity		Operate for a long time at 1.1 times the rated load. Operate for no less than 1 minutes at 1.2 times the rated load		
General Data				
Dimensions (W×H×D)		5900 × 2896 × 2800 mm		
Weight		18000kg (Dry-type transformer)		
Operating temperature		-35 to +60°C (> 50°C, derating operation)		
Operating humidity		0 to100%RH (non-condensing)		
Altitude		≤5000m (> 3000m, derating operation)		
IP rating		IP54 (PCS : IP65)		
Cooling method		Intelligent liquid cooling		
Display and Communication				
Display		HMI + LED		
Communication interface		RS485, CAN, Ethernet		
Communication protocol		MODBUS-RTU, CAN, MODBUS-TCP, IEC61850		
Standard and Regulation				
Compliance		GB/T 34120 - 2023, GB/T 34133 - 2023		

* Subject to actual product shipment