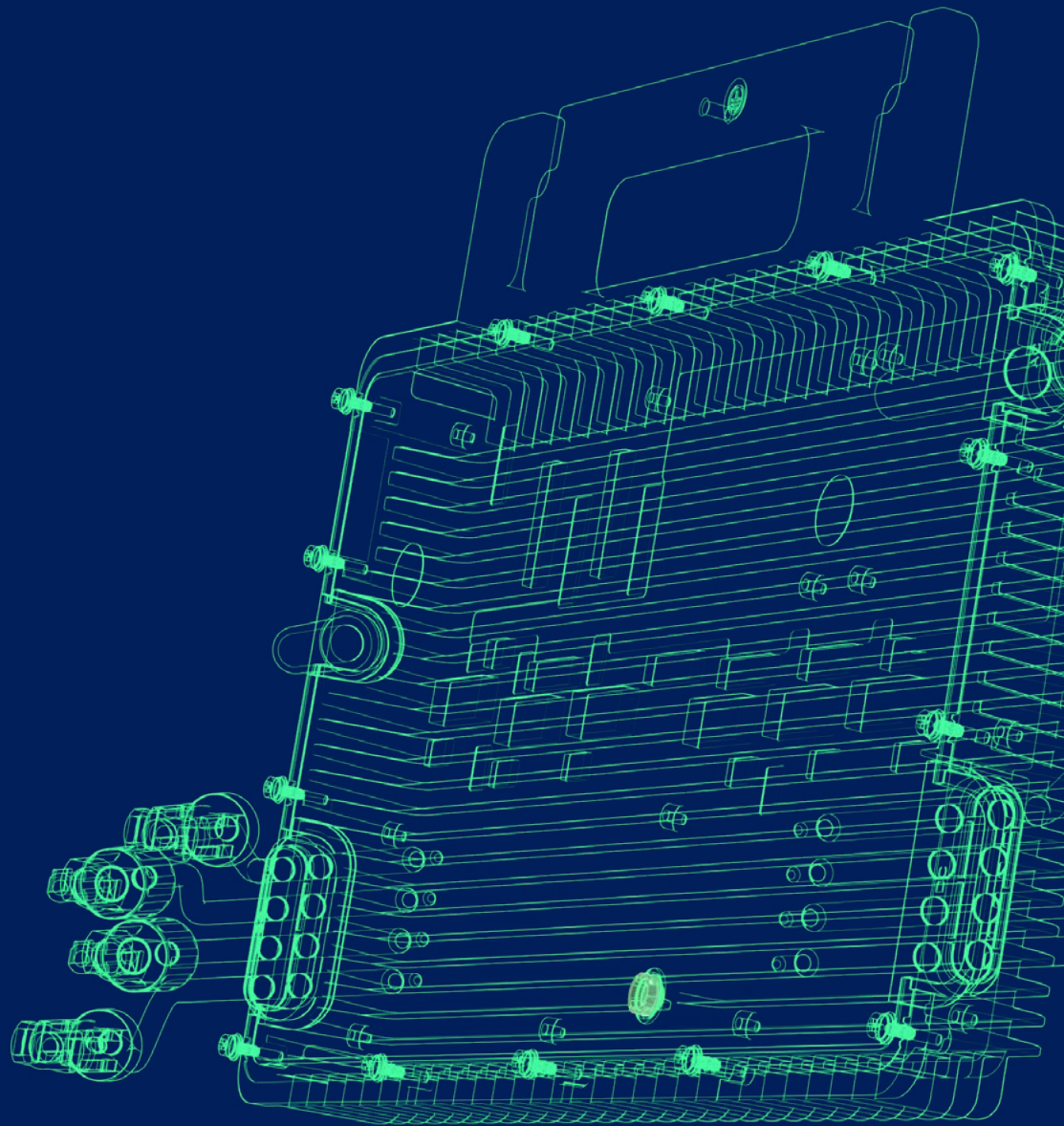




PRODUCT BROCHURE

FOR **APAC & Africa**



Open Energy For All

Bringing smart solar to the entire world with rugged technology

Hoymiles' mission is to become the leading choice for getting started with smart energy, making good technology more impactful by ensuring it's accessible to everyone, and bringing smart solar to the entire world with high-quality products.

Hoymiles is a clean energy solution provider, specializing in module-level inverters and storage systems. Our products cater to residential, commercial, industrial, and utility-scale applications. With a vision of a clean, sustainable future, we strive to lead the smart energy industry through our rugged technology and reliable products.

With our driven engineer team, 1600+ global experts and distribution & service network spanning North America, South America, Europe, Asia, Africa and Oceania, Hoymiles has empowered homeowners and professionals in more than 190 countries and regions to join the journey to true open energy.

Hoymiles officially debuted on the Shanghai Stock Exchange STAR Market in Dec. 2021 under the stock code 688032. Now we are favored by the market as a trustworthy partner to our investors, installers and end consumers.

Product Portfolio

Microinverter

Single-phase | HMS Series

- 06 · HMS-400 / HMS-450 / HMS-500-1T
- 08 · HMS-800 / HMS-900 / HMS-1000-2T
- 10 · HMS-1600 / HMS-1800 / HMS-2000-4T
- 12 · HMS-1600D / HMS-1800D / HMS-2000D-4T

Single-phase | HMS DW Series

- 14 · HMS-1600DW-4T / HMS-1800DW-4T / HMS-2000DW-4T

Accessories

- 16 · Flex-S3 Cable Accessories

Three-phase | HMT Series

- 20 · HMT-1600-4T / HMT-1800-4T / HMT-2000-4T

Accessories

- 22 · HMT Cable Accessories

Three-phase | MIT Series

- 24 · MIT-4000-8T / MIT-4500-8T / MIT-5000-8T

Accessories

- 26 · Flex-T5 Cable Accessories

Data Transfer Unit

- 28 · DTU-Pro-S
- 30 · DTU-Lite-S

Rapid Shutdown Device

Rapid Shutdown

- 32 · HRSD-2C Series

Transmitter

- 34 · HT-G20-Kit-B1S2 / HT-G20-Kit-B2S2 / HT-G20-Kit-C2S2

Energy Storage System

Single-phase | Hybrid Inverter

- 36 · HYS-3.0LV / HYS-3.6LV / HYS-4.6LV / HYS-5.0LV / HYS-6.0LV-EUG1
- 38 · HYS-8.0LV / HYS-10.0LV / HYS-12.0LV-EUG2

Three-phase | Hybrid Inverter

- 40 · HYT-5.0HV / HYT-6.0HV / HYT-8.0HV / HYT-10.0HV / HYT-12.0HV-EUG1
- 42 · HIT-5L / HIT-6L / HIT-8L / HIT-10L / HIT-12L / HIT-15L / HIT-17L / HIT-20L-G3

Single-phase | AC-coupled Inverter

- 44 · HAS-3.0LV / HAS-3.6LV / HAS-4.6LV / HAS-5.0LV-EUG1

Three-phase | AC-coupled Inverter

- 46 · HAT-5.0HV / HAT-6.0HV / HAT-8.0HV / HAT-10.0HV-EUG1

Micro Storage

- 48 · MS-A2

Data Transfer Stick

- 50 · DTS-G1

Battery

Low Voltage | LB Series

- 54 · LB-5S / LB-10S / LB-15S / LB-20S-G2
- 56 · LB-5D-G2

High Voltage | HB Series

- 58 · HB-10S / HB-15S / HB-19S / HB-23S-G2

BESS

- 60 · HoyUltra | All-in-one Battery system

EV Charger

AC EV Charger

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

Why Hoymiles

When you choose Hoymiles, you're choosing a neat set of advantages. Our products have a low failure rate, high-efficiency in converting DC to AC, are of the highest industry quality, and are incredibly easy to install.

Increased Return on Investment

- Easily install units in challenging conditions and positions
- Low start-up voltage

Smarter

- Module-level monitoring for remote trouble-shooting & maintenance

More Efficient

- World's leading power density
- Leading MPPT efficiency: 99.8%

Installer Friendly

- Full product range: 1-1 to 8-1, 400W-5000W
- High cost effective (LCOE)
- Plug-and-play, easy installation
- Extensive warranty

Safer

- Up to 60V DC input voltage to eliminate the risk of a rooftop fire
- IP67

More Reliable

- Low failure rate (0.18%)
- Global compliance: EN50549-1:2019 and California Rule 21





Single-phase
Microinverter 1 in 1

HMS-400-1T
HMS-450-1T
HMS-500-1T

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, UL 1741, etc.

The new Sub-1G wireless solution enables more stable communication under various environmental conditions.

- ✓ High-powered microinverter for 1-in-1 with output power up to 500 VA
- ✓ With Reactive Power Control, compliant with EN 50549-1:2019, VDE-AR-N 4105:2018, UL 1741, etc.
- ✓ Safer for rooftop solar stations with rapid shutdown compliance and isolated transformer

- ✓ Connected to one panel, flexible for various applications
- ✓ With Flex-S3 Cable System, installation is easier and faster than ever before
- ✓ Sub-1G wireless solution allows stable communication with Hoymiles gateway DTU

Technical Specifications

Model	HMS-400-1T			HMS-450-1T			HMS-500-1T		
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)	14			15			16		
Maximum input short circuit current (A)	25								
Number of MPPTs	1								
Number of inputs per MPPT	1								
Output Data (AC)									
Rated output power (VA)	400			450			500		
Rated output current (A)	1.82	1.74	1.67	2.05	1.96	1.88	2.27	2.17	2.08
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 branch**	13	14	15	12	12	13	11	11	12
Maximum units per 4 mm² branch**	18	19	20	16	17	18	14	15	16
Maximum units per 6 mm² branch**	22	23	24	19	20	21	17	18	19
Efficiency									
Peak efficiency	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, UL 1741, AS/NZS 4777.2:2020, 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 2 in 1

HMS-800-2T
HMS-900-2T
HMS-1000-2T

The HMS-1000-2T series microinverters offer a maximum power output of 1000 VA, ranking them among the top-performing 2-in-1 microinverters on the market.

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.

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

✔ With Reactive Power Control, compliant with EN 50549-1:2019, VDE-AR-N 4105:2018, UL 1741, etc.

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

✔ Independent MPPT and monitoring ensure greater energy harvest and easier maintenance

✔ 2-in-1 design enables faster installation

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

Technical Specifications

Model	HMS-800-2T			HMS-900-2T			HMS-1000-2T		
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)	2 × 14			2 × 15			2 × 16		
Maximum input short circuit current (A)				2 × 25					
Number of MPPTs				2					
Number of inputs per MPPT				1					
Output Data (AC)									
Rated output power (VA)	800			900			1000		
Rated output current (A)	3.64	3.48	3.33	4.09	3.91	3.75	4.55	4.35	4.17
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 branch**	6	7	7	6	6	6	5	5	6
Maximum units per 4 mm² branch**	9	9	10	8	8	9	7	7	8
Maximum units per 6 mm² branch**	11	11	12	9	10	10	8	9	9
Efficiency									
Peak efficiency	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, UL 1741, IEC 61727, IEC 62116, IEC 61683, IEC/EN 60068-2-1/-2/-14/-30, AS/NZS 4777.2:2020, 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 branch.



Single-phase Microinverter 4 in 1

HMS-1600-4T
HMS-1800-4T
HMS-2000-4T

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.

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

✔ Independent MPPT and monitoring ensure greater energy harvest and easier maintenance

✔ With Reactive Power Control, compliant with VDE-AR-N 4105:2018, IEC 61727, IEC 62116, etc.

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

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

✔ 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 branch**	3	3	3	3	3	3	2	2	3
Maximum units per 4 mm² branch**	4	4	5	4	4	4	3	3	4
Maximum units per 6 mm² branch**	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, VDE-AR-N 4105: 2018, UL 1741, IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4, IEC/EN 61000-3-2/-3, IEC 61727, IEC 62116, IEC 61683, IEC60068-2-1/-2/-14/-30, IEC 62920								

* : Nominal voltage/frequency range can vary depending on local requirements.

** : Refer to local requirements for exact number of microinverters per AC output line.



Single-phase Microinverter 4 in 1

HMS-1600D-4T
HMS-1800D-4T
HMS-2000D-4T

Hoymiles 4-in-1 microinverter HMS-2000D-4T series features four input channels, significantly lowering installation costs.

All of these models listed are connected to an intelligent monitoring system to track individual modules' performance over time and offer superior energy production.

The new Sub-1G wireless solution enables more stable communication under various environmental conditions.

- ✓ High-powered microinverter with output power up to 2000 VA
- ✓ 99.8% MPPT efficiency and module-level monitoring ensure greater energy harvest and easier maintenance
- ✓ Comply with UL 1741, IEC/EN 62109-1/-2, IEC/EN 61000-3-2/-3, ect.

- ✓ 4-in-1 design maximizes efficiency and reduces costs
- ✓ Sub-1G wireless solution allows stable communication in commercial and industrial settings
- ✓ IP67 protection degree, adapt to outdoor use

Technical Specifications

Model	HMS-1600D-4T			HMS-1800D-4T			HMS-2000D-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	2								
Number of inputs per MPPT	2								
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 6 mm² branch**	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])	310 × 185 × 40.6								
Weight (kg)	4.5								
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	UL 1741, IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4, IEC/EN 61000-3-2/-3, IEC 62920								

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



Single-phase
Microinverter 4 in 1

HMS-1600DW-4T
HMS-1800DW-4T
HMS-2000DW-4T

Hoymiles new generation microinverter HMS-2000DW-4T series is designed to accommodate high-powered PV modules, with maximum output power up to 2000 VA and maximum DC input current up to 16 A.

The innovative four-input design enables faster installation and lower cost, and makes the HMS-2000DW-4T series a cost-effective choice.

The integrated Wi-Fi module enables more convenient communications and simpler configurations between the microinverter and smart platform S-Miles Cloud.

- ✔ Built-in Wi-Fi module enables quicker and easier installation and commissioning
- ✔ The industrial-grade Wi-Fi module brings higher microinverter reliability
- ✔ With output power up to 2000 VA, compatible with 182 mm/210 mm PV modules

- ✔ 4-in-1 design enables faster installation and lower cost
- ✔ Safer for rooftop solar stations with rapid shutdown compliance and isolated transformer
- ✔ IP67 protection degree, adapt to outdoor use

Technical Specifications

Model	HMS-1600DW-4T			HMS-1800DW-4T			HMS-2000DW-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)									
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 6 mm² branch**	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])				310 × 185 × 40.6					
Weight (kg)				4.5					
Enclosure rating				Outdoor-IP67					
Cooling				Natural convection-No fans					
Features									
Communication				Wi-Fi					
Type of isolation				Galvanically Isolated HF Transformer					
Monitoring				S-Miles Cloud (Hoymiles Monitoring Platform)					
Compliance				UL 1741, IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4, IEC/EN 61000-3-2/-3, IEC 62920					

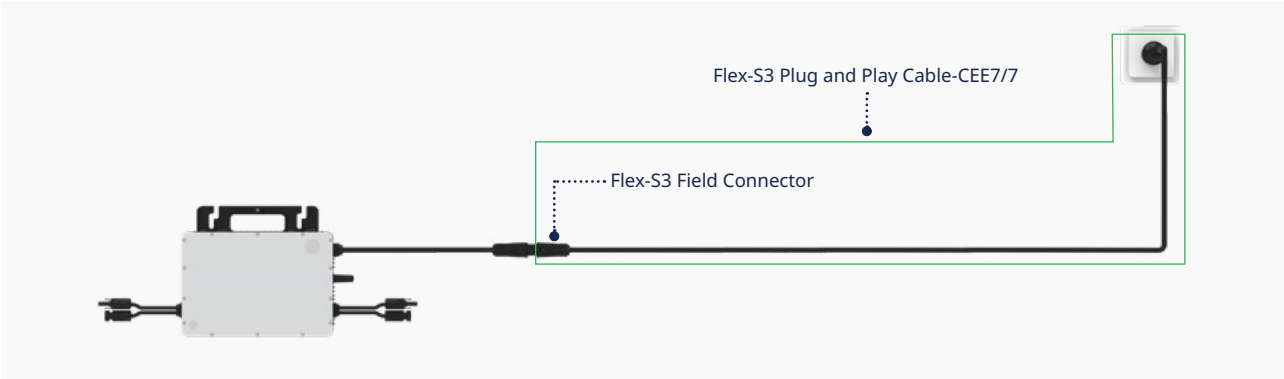
* : Nominal voltage/frequency range can vary depending on local requirements.
** : Refer to local requirements for exact number of microinverters per AC output line.

Flex-S3 Cable Accessories

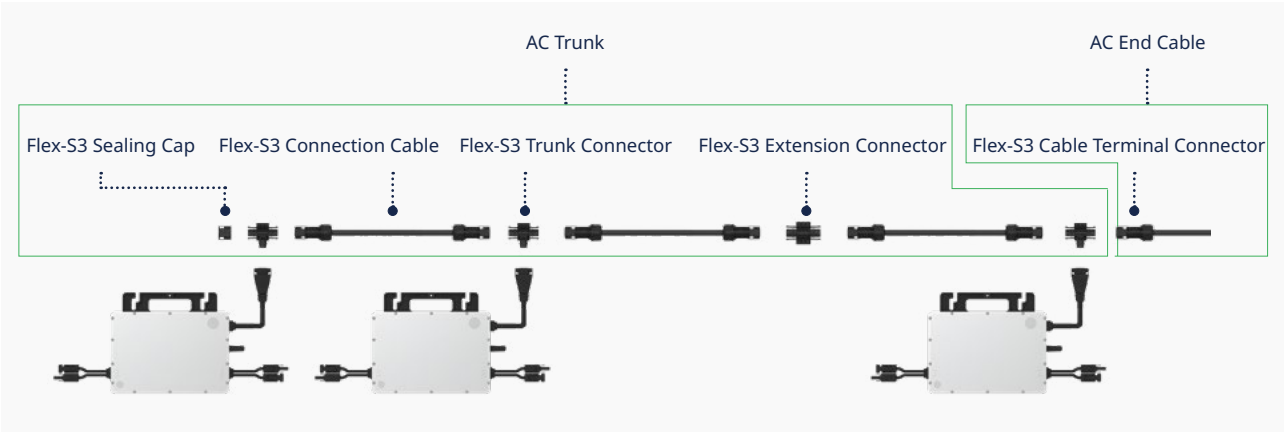
SIMPLIFY YOUR INSTALLATION WITH EASY & FLEXIBLE & RELIABLE CABLE SYSTEM

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 users to mix and match Flex-S3 Connection Cables of different sizes or lengths to achieve their 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.



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 mm ² copper cable)
Applicable cable specification	1.0/1.5 mm ²
Applicable cable outer diameter	8 to 9.5 mm
Cable connection type	Screw pressing
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

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)	/	3 PCS	495 × 290 × 255 mm
	S3-FC-EN15C (HMS Field Connector-EN15C-100PCS)	/	3 PCS	495 × 290 × 255 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.

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 mm²	
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 System Parameter		
Cable type	H07RN-F	
Rated voltage	450 V	
Conductor size	2.5 mm² / 4.0 mm² / 6.0 mm²	
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	

Connector 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)		
	S3-CTC-EN2560C (HMS Cable Terminal Connector-ENA-1PCS)		
	S3-CTC-EN2560S		

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
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 4 in 1

HMT-1600-4T
HMT-1800-4T
HMT-2000-4T

The Hoymiles HMT-2000-4T series microinverter is designed for high-powered 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).

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

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

✔ Grid protection relay integrated

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

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

✔ 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)	3 × 2.32		3 × 2.61	3 × 2.9
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

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Cable Accessories for Microinverter of HMT Series



3P-AC Trunk Cable, 12/10 AWG Cable

3P-AC Trunk Cable is used to connect the microinverter to distribution box.
The Trunk Connector on the 3P-AC Trunk Cable is evenly distributed at intervals, Hoymiles provides 3P-AC Trunk Cable with different AC Trunk Connector spacing.



3P-AC Trunk Port Cap

Used to protect vacant AC Trunk Port.



3P-AC Trunk Connector

The AC Sub Connector of the microinverter can be inserted into the port of the 3P-AC Trunk Connector.
Plug and play connectors speed up and simplify installation.



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 8 in 1

MIT-4000-8T
MIT-4500-8T
MIT-5000-8T

Hoymiles new generation microinverter MIT-5000-8T series is designed to accommodate eight high-powered PV modules, with output power up to 5000 VA 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.

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

✔ Output power up to 5000 VA and input current up to 20 A, compatible with 182 mm/210 mm PV modules

✔ Four MPPTs, optimizing power generation

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

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

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

Technical Specifications

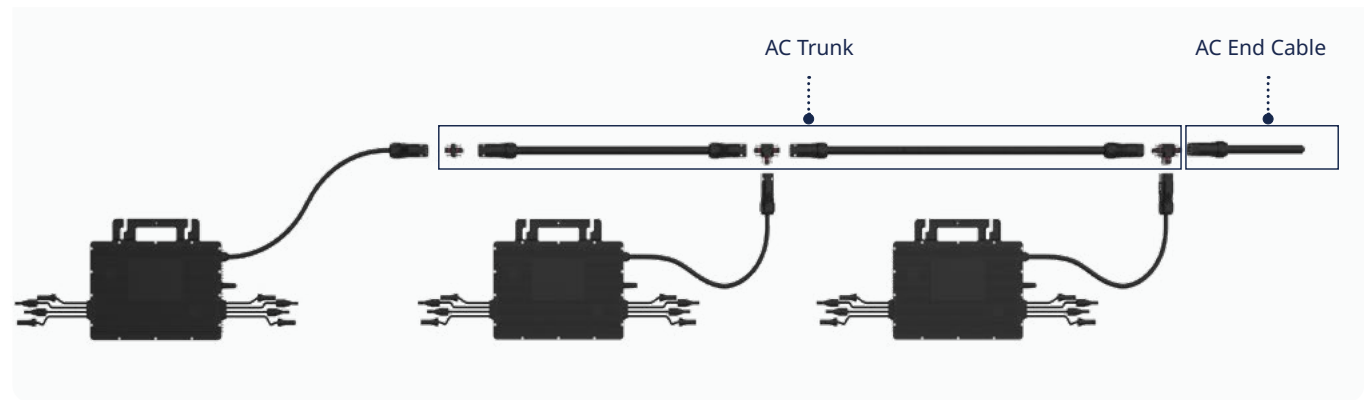
Model	MIT-4000-8T	MIT-4500-8T	MIT-5000-8T
Input Data (DC)			
Commonly used module power (W)	400 to 650+	560 to 700+	600 to 750+
Maximum input voltage (V)	140		
Minimum/Maximum start-up voltage (V)	32/136		
MPPT voltage range (V)	12-136		
Peak power MPPT voltage range (V)	58-136	59-136	66-136
Maximum 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 (VA)	4000	4500	5000
Peak output power (VA)	4400	4950	5500
Rated output current (A)	3 × 5.79	3 × 6.52	3 × 7.25
Nominal output voltage (V)	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**	3	3	3
Maximum units per 4 mm² branch**	5	4	4
Maximum units per 6 mm² branch**	6	5	5
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 1741		

* : 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 also 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		22 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-EN25-460	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-EN40-460	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-EN60-460	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

DTU-Pro-S

Compatible with HMS/HMT series

Hoymiles gateway DTU-Pro-S is a data transfer unit which collects information and data of PV microinverter using Sub-1G wireless solution and sends them to S-Miles Cloud, Hoymiles Monitoring Platform, using different communication options such as Ethernet, Wi-Fi or 4G.

With DTU-Pro-S, users can easily read module-level data and alarm, realize remote operation and maintenance of PV system at any time, from anywhere on S-Miles Cloud.



Reliable and Flexible

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



Simple and Efficient O&M

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



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)	400 m	
Monitoring data limit from solar panels*	99	
Communication to S-Miles Cloud		
Ethernet	RJ45 × 1, 100Mbps	
Wireless**	Wi-Fi: 802.11b/g/n	4G: TDD-LTE, FDD-LTE 3G: SCDMA 2G: GSM/GPRS
Sample rate	Per 15 minutes	
Communication to Peripherals		
RS485	COM × 1, 9600bps, Modbus-RTU	
Ethernet	RJ45 × 1, Modbus-TCP	
DRM (For AU/NZ only)	RJ45 × 1, DRM0/5/6/7/8	
Interaction		
LED	LED Indicator × 4 – RUN, Cloud, MI, ALM	
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	5 V/2 A	
Power consumption	Typ. 1.5 W / Max. 3.0 W	Typ. 2.5 W / Max. 5.0 W
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, HMT series, MiT series, MiS series	

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

** : Extended antenna is recommended if the DTU is installed inside a metal box or under a metal/concrete roof.



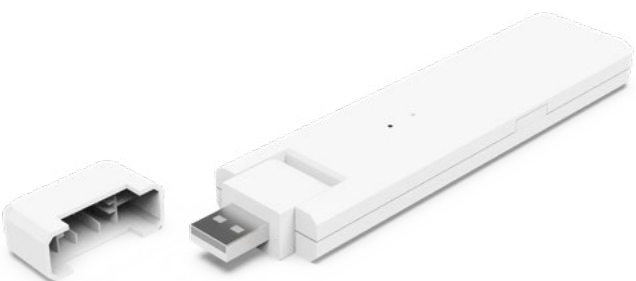
Data Transfer Unit

DTU-Lite-S

Hoymiles gateway DTU-Lite-S is a data transfer unit which collects information and data of PV microinverter 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-Lite-S is suitable for residential PV systems. Users can easily read module-level data

and alarms, realize remote operation and maintenance of the microinverter system at any time and any place on S-Miles Cloud.



✔ Module-level monitoring and data storage

✔ Sub-1G wireless solution with microinverter

✔ Plug and play, easy installation

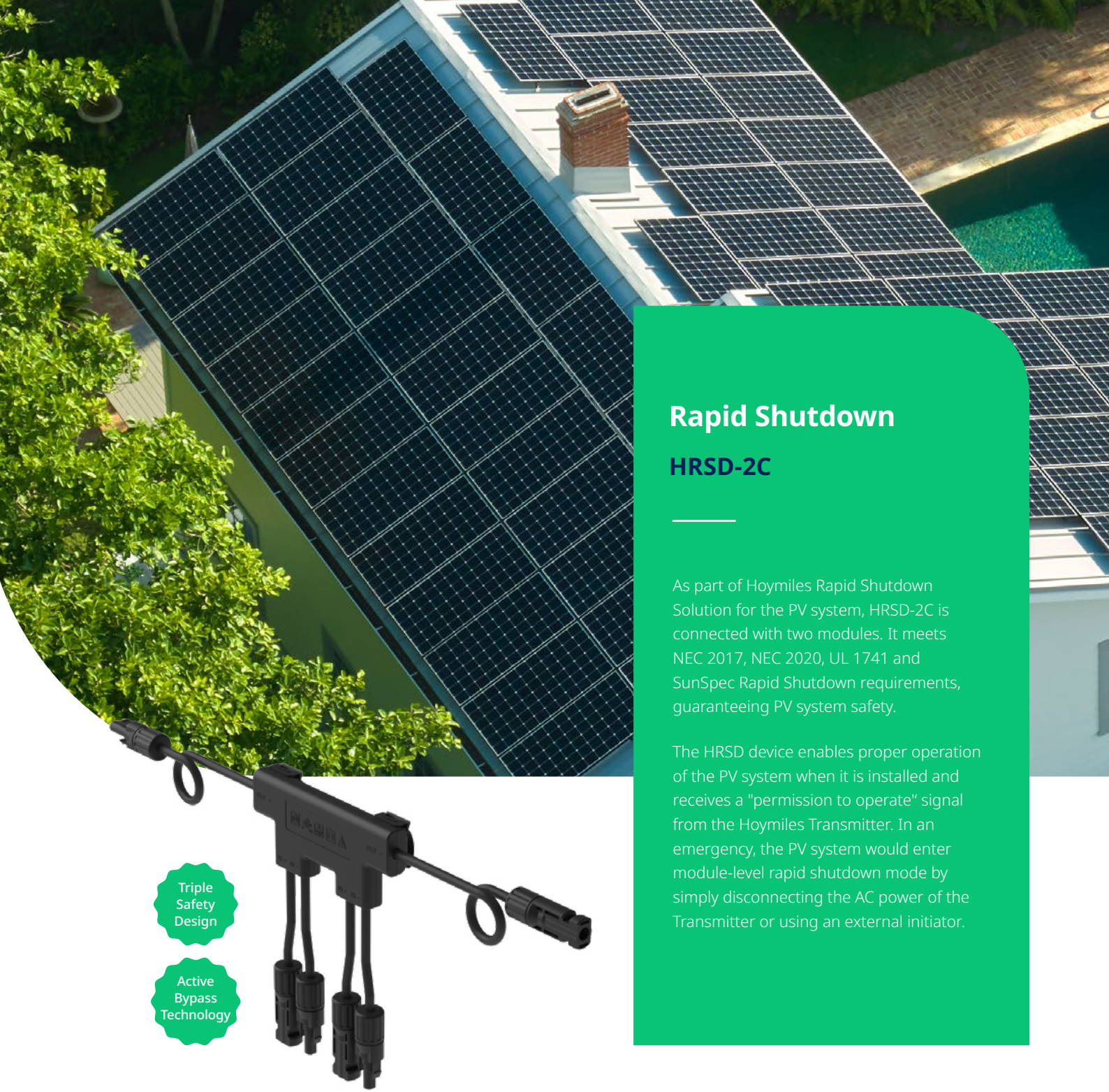
✔ Real-time microinverter data and alarm on S-Miles Toolkit

✔ 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*	99
Communication to S-Miles Cloud	
Signal	802.11b/g/n
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 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, FCC, IC, RCM, Anatel
Microinverter Compatibility	
Microinverter model	HMS series, HMT series

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



Rapid Shutdown

HRSD-2C

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.

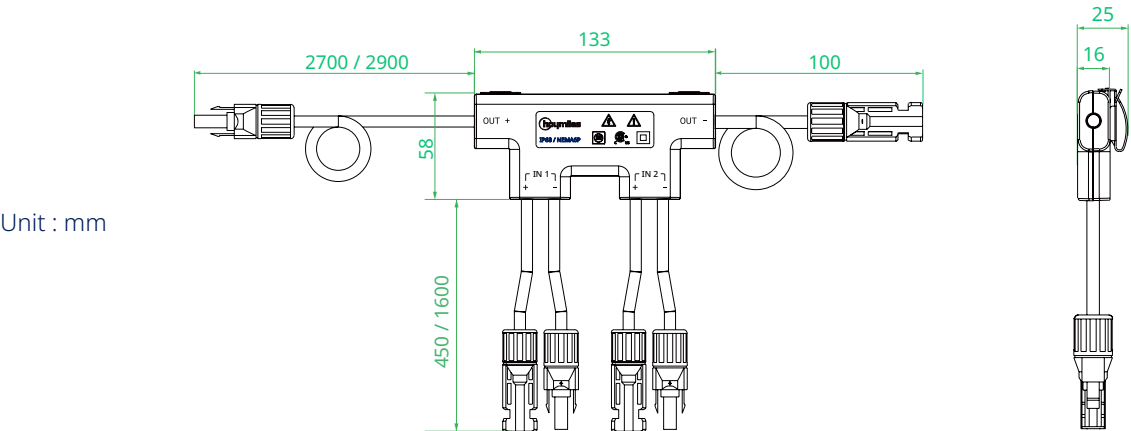
- Triple Safety Design
- Active Bypass Technology

- Module-level Rapid Shutdown**
Meets SunSpec RSD, NEC 2017&NEC 2020 690.12 requirements
- Easy Installation**
Plug & play, no configuration required
- Increased Reliability**
Uses Active Bypass to reduce heat generation in shade and other situations
- High Efficiency**
Lower power consumption and wider operating voltage range
- Better Temperature Uniformity**
Uses graphene heat spreader to improve heat dissipation
- 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*	0.45 m (1.48 ft.) / 1.6 m (5.23 ft.), optional	
Output connectors	MC4 / MC4 EVO2, optional	
Output cable length**	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	

* : 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.
** : Fits PV module in portrait installation. Contact Hoymiles if horizontal installation is needed.



Unit : mm



Transmitter

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

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.

- ✓

Module-level rapid shutdown with Hoymiles HRSD
- ✓

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

Advanced crosstalk prevention solution
- ✓

Weatherproof outdoor enclosure
- ✓

Complied with NEC 2017&NEC 2020 690.12 requirements
- ✓

Equipped with single-phase power supply

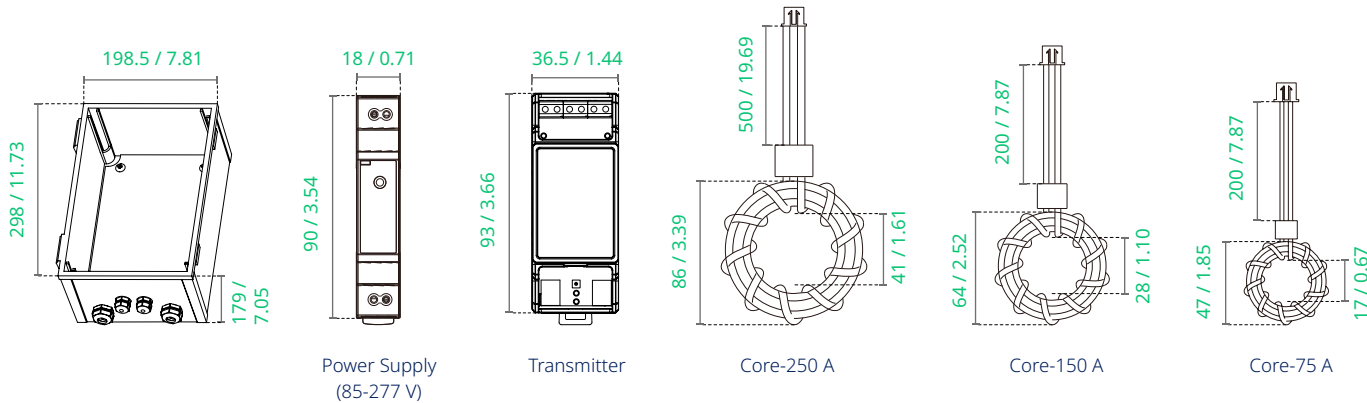
Technical Specifications

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.)

Unit : mm / inch





Single-phase Hybrid Inverter

HYS-3.0LV-EUG1
HYS-3.6LV-EUG1
HYS-4.6LV-EUG1
HYS-5.0LV-EUG1
HYS-6.0LV-EUG1

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, economical 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.

✔ Intelligent export limitation

✔ Double MPPT tracker, up to 14 A MPPT current

✔ Compatible with multiple batteries, providing users with more choices

✔ UPS level switching time <10 ms

✔ DC/AC ratio up to 150%

✔ Ultralight for easy installation and space-saving

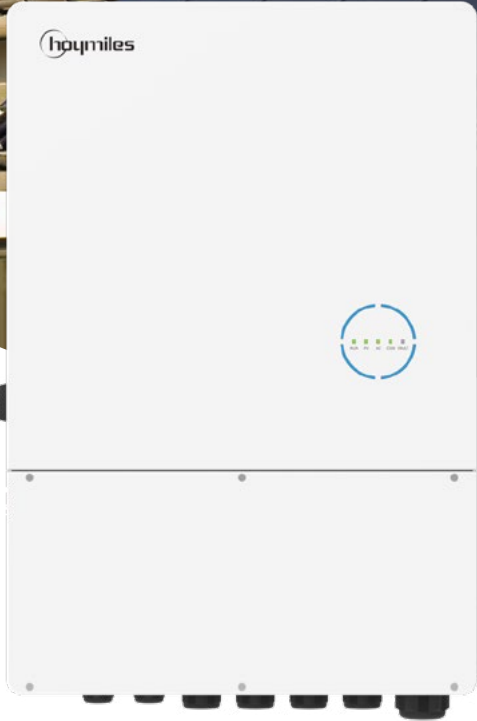
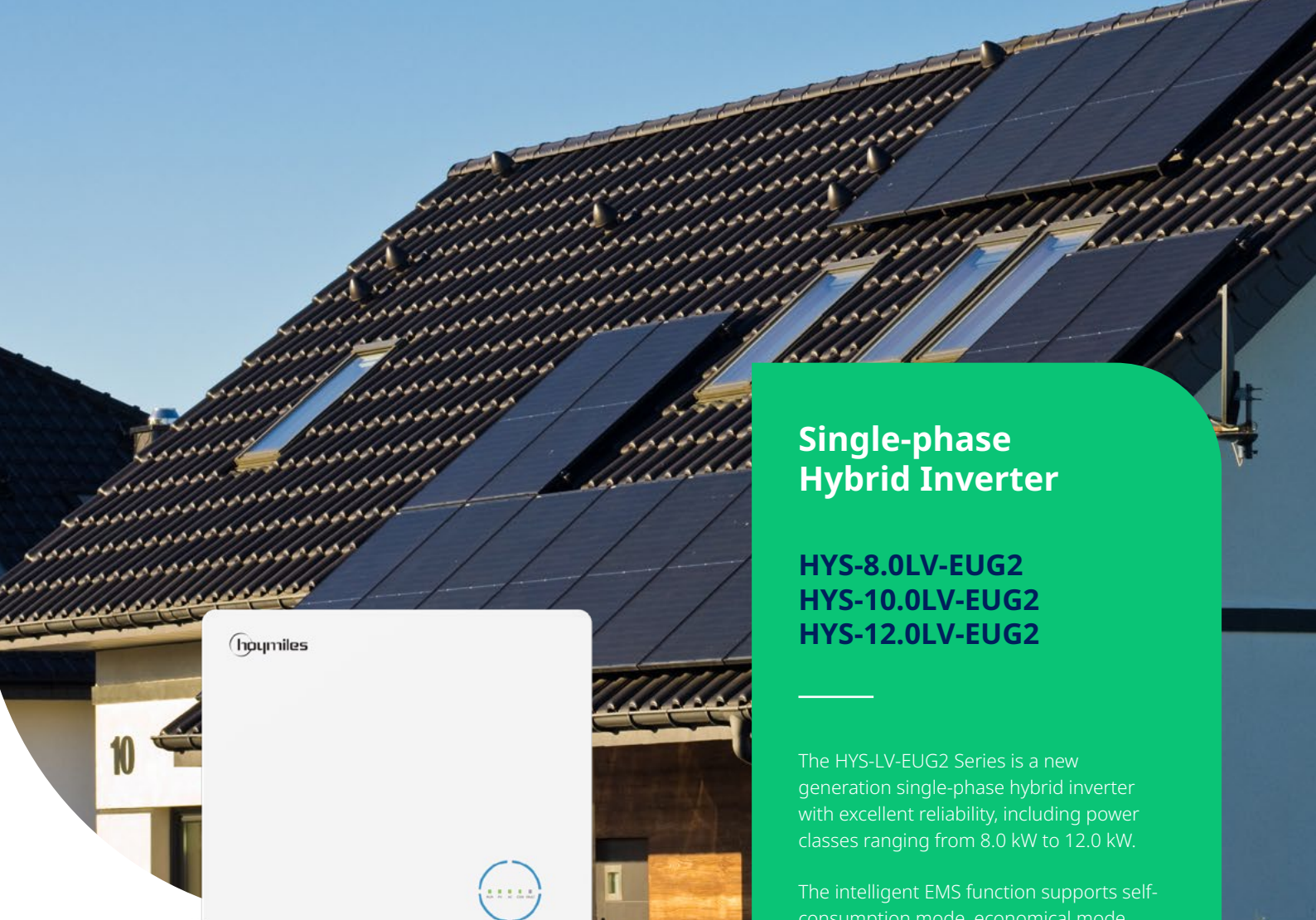
✔ Built-in dry contact flexibly set to earth fault alarm, load control, or generator control

✔ 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, optional: Wi-Fi/Ethernet/4G ⁽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-Ethernet and DTS-4G solutions will be coming soon.
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Single-phase Hybrid Inverter

HYS-8.0LV-EUG2
HYS-10.0LV-EUG2
HYS-12.0LV-EUG2

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, economical 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.

- ✔

Intelligent export limitation
- ✔

DC/AC ratio up to 130%
- ✔

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

Ultralight for easy installation and space-saving
- ✔

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

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

Seamless backup power for whole home or critical loads
- ✔

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 ⁽¹⁾					
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, optional: Wi-Fi/Ethernet/4G ⁽²⁾					
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) Lead-acid batteries will be supported soon.
(2) The DTS-Ethernet and DTS-4G solutions will be coming soon.



Three-phase Hybrid Inverter

HYT-5.0HV-EUG1
HYT-6.0HV-EUG1
HYT-8.0HV-EUG1
HYT-10.0HV-EUG1
HYT-12.0HV-EUG1

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, economical 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.

- ✔

Intelligent export limitation and 100% three-phase imbalanced output
- ✔

DC/AC ratio up to 150%
- ✔

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

Ultralight for easy installation and space-saving
- ✔

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

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

UPS level switching time <10 ms
- ✔

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	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, optional: Wi-Fi/Ethernet/4G ⁽¹⁾				
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) The DTS-Ethernet and DTS-4G solutions will be coming soon.



Three-phase Hybrid Inverter

HIT-5L-G3
HIT-6L-G3
HIT-8L-G3
HIT-10L-G3
HIT-12L-G3
HIT-15L-G3
HIT-17L-G3
HIT-20L-G3

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, economical 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.

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

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

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

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

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

✓ 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	20/20/20/20	
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	30/30/30/30	
MPPT number/Max. input strings number	2/2	2/2	3/3	4/4	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		<55		
User interface					LED, App				
Digital input/output					DRM, 2 × DI, 2 × DO				
Communication					RS485, Wi-Fi/WLAN/4G (optional)				
Certifications and Standards									
Grid connection standard	IEC 61727, IEC 62116, EN 50549, VDE-AR-N 4105								
Safety/EMC standard	IEC 62109-1/-2, EN 61000-6-1/-2/-3/-4								

(1) Can be achieved only if PV and battery power are sufficient.

(2) Excluding Connectors and Brackets.



Single-phase AC-coupled Inverter

HAS-3.0LV-EUG1
HAS-3.6LV-EUG1
HAS-4.6LV-EUG1
HAS-5.0LV-EUG1

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 coupling system.

The intelligent EMS function supports self-consumption mode, economical 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.

✔ Intelligent export limitation

✔ Compatible with multiple batteries, providing users with more choices

✔ UPS level switching time <10 ms

✔ Ultralight for easy installation and space-saving

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

✔ 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, optional: Wi-Fi/Ethernet/4G ⁽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-Ethernet and DTS-4G solutions will be coming soon.



Three-phase AC-coupled Inverter

HAT-5.0HV-EUG1
HAT-6.0HV-EUG1
HAT-8.0HV-EUG1
HAT-10.0HV-EUG1

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 coupling system.

The intelligent EMS function supports self-consumption mode, economical 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.

- Intelligent export limitation and 100% three-phase imbalanced output
- Compatible with multiple batteries, providing users with more choices
- UPS level switching time <10 ms

- Ultralight for easy installation and space-saving
- Built-in dry contact flexibly set to earth fault alarm, load control, or generator control
- 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
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, optional: Wi-Fi/Ethernet/4G ⁽¹⁾			
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) The DTS-Ethernet and DTS-4G solutions will be coming soon.



Micro Storage MS-A2

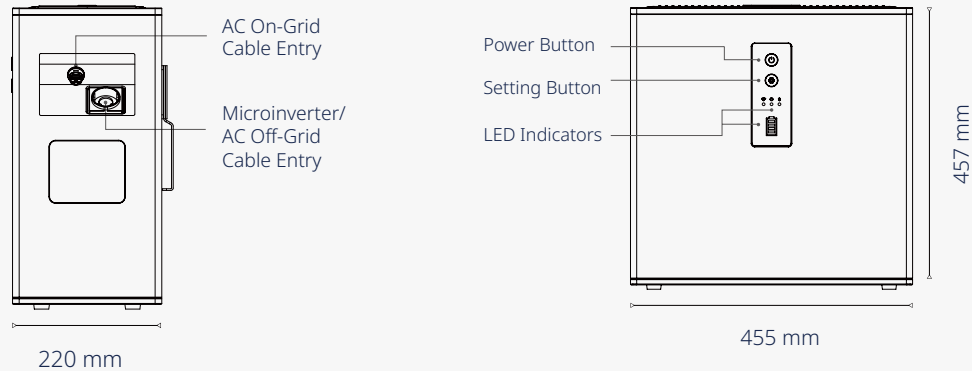
The first AC-coupled balcony power storage system in the market, seamlessly compatible with all microinverters. Integrated battery capacity of up to 2,240 Wh, allows effortless expansion by connecting two units in series.

From balconies and courtyards to outdoor spaces, M-A2 delivers clean power wherever you need it. Plug & Play installation design offers flexibility and ease, just two steps for a seamless electrical connection.

The MS-A2 has earned the ETSI EN 303 645 Cybersecurity certification, safeguarding your personal information. Through a new app, MS-A2 provides real-time monitoring and control. Your energy world, is in the palm of your hand.

Powered by LFP batteries and adhering to the IEC 62619 standards, MS-A2 guarantees your family's safety and peace of mind. MS-A2 supports 6000+ battery cycles, standing the test of time.

Size



Technical Specifications

Model	MS-A2
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
Total harmonic distortion (@nominal load)	<3%
AC Input and Output (Off-grid Port)	
Maximum output apparent power (VA)	800
Peak output apparent power (VA)	1200, 10s
Grid type	Single-phase
Connector type	Schuko socket
Nominal AC voltage (V)	230
Nominal AC frequency (Hz)	50
Max. output current (A)	3.48
Total harmonic distortion (@linear load)	<3%
Maximum input power (VA)	1800
Maximum input current (A)	7.83
Battery	
Capacity (Wh)	2240
Cell type	LiFePO4
Life cycles	≥6000
Charging temperature (°C)	0 to 55
Discharging temperature (°C)	-20 to 55
Nominal apparent power (VA)	1000 (charge and discharge)
General	
Weight (kg)	32
Dimensions (L× W × H [mm])	455 × 220 × 457
Operating temperature range (°C)	-20 to 55
Relative humidity range (%)	5 to 95
Overvoltage class AC port	II
Pollution class	PD3
Protection degree	IP65 ⁴
Maximum altitude (m)	2000
Mounting	Wall-mounted or Floor-mounted
Cooling	Natural convection-No fans
Wireless type	Bluetooth, 2.4GHz Wi-Fi
Interface	LED & App
Standards	
Grid Compliance	VDE-AR-N 4105: 2018, TOR Erzeuger Type A, EN 50549-1: 2019, EN 50549-10:2022
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 App and can be adjusted up to 1000 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.

*4 The product is rated IP65 overall, with the exception of the standard AC socket.



Data Transfer Stick

DTS-Wi-Fi-G1

DTS-Ethernet-G1

DTS-4G-G1

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.



Integrated to use, simply plug and play



Stable and reliable data transmission



IP65 protection



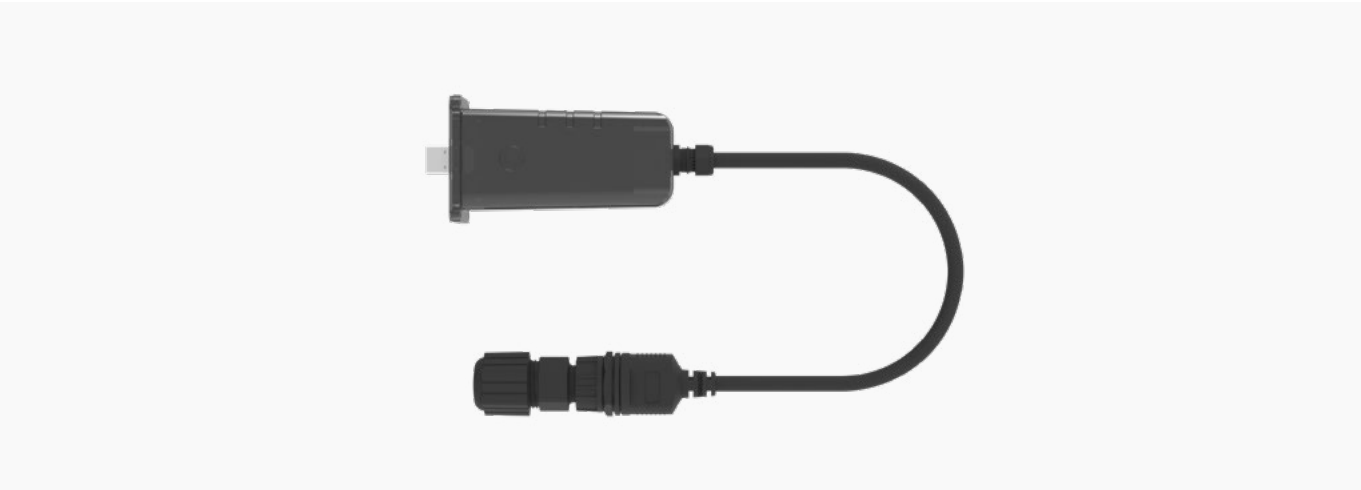
Remote maintenance of energy storage system on S-Miles Cloud platform

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.



Low Voltage Battery

LB-5S-G2
LB-10S-G2
LB-15S-G2
LB-20S-G2

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.



LFP with improved safety design



Suitable for indoor/outdoor installation with IP66 design



Quick connector design saves installation time



Stackable design without wiring



Flexible capacity options from 5.12 kWh to 20.48 kWh



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								
Dimensions (W × H × D [mm]) ⁽¹⁾	640 × 690 × 145		640 × 1070 × 145		640 × 1450 × 145		640 × 1830 × 145	
Weight (kg) ⁽¹⁾	60.5		107		153.5		200	
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, IEC 61000-6-1/-3							
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

LB-5D-G2

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.

- ✓

LFP with improved safety design
- ✓

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

Quick connector design saves installation time
- ✓

Support wall mounting and floor standing installation
- ✓

Flexible capacity options from 5.12 kWh to 81.92 kWh
- ✓

BMS provides comprehensive protection

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
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
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.



High Voltage Battery

HB-10S-G2
HB-15S-G2
HB-19S-G2
HB-23S-G2

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.

- ✓ LFP with improved safety design
- ✓ Suitable for indoor/outdoor installation with IP65 design
- ✓ Quick connector design saves installation time

- ✓ Stackable design without wiring
- ✓ Flexible capacity options from 11.52 kWh to 23.04 kWh
- ✓ 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							
Warranty ⁽¹⁾		5-10 Years							

* Parallel connection between battery towers is not supported.

(1) Please refer to Hoymiles Warranty Terms & Conditions for more details.



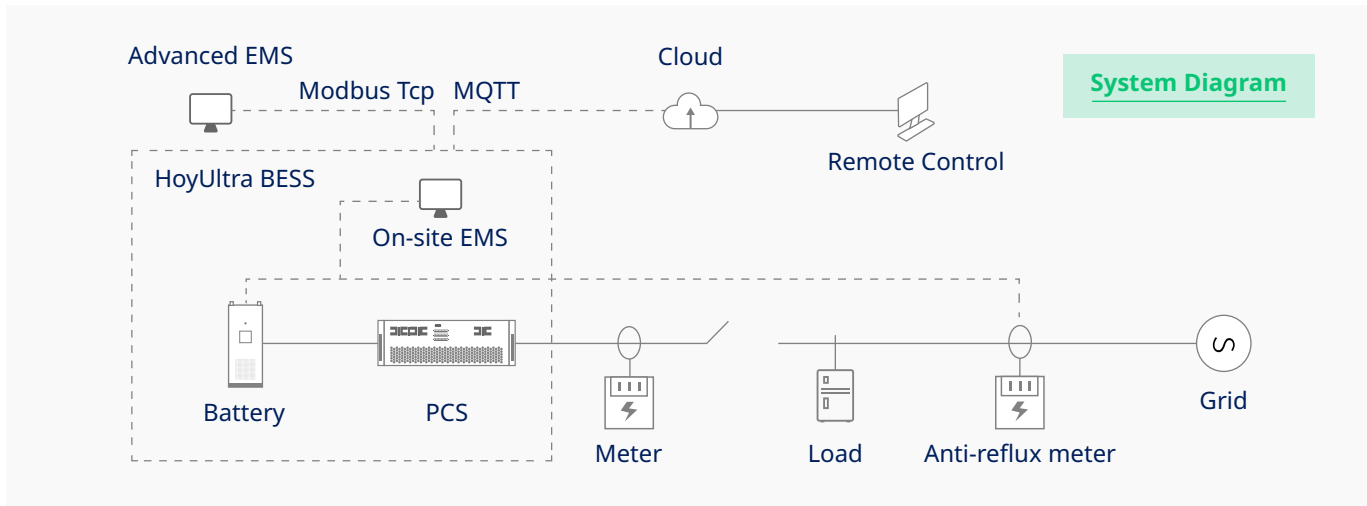
HoyUltra All-in-One Battery System

A standalone system with an integrated multi-level BMS ensures exceptional safety, while multi-DC fuse protection guarantees fast-breaking 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 battery system, eliminating the time to install on site, Supports multi-cabinet 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.



Technical Specifications

DC side	
Battery Type	LFP (Lithium Iron Phosphate)
Configuration	1P240S
Rated Capacity (Ah)	280
Battery Capacity (BOL) at DC side (kWh)	215
Rated Voltage (V)	768
Rated Power (kW)	100
Rated Charge (Discharge) Rate	0.5C
Operating Voltage Range (V)	672~864
Standard Charge (Discharge) Current (A)	140
Cooling Mode	Liquid cooling
Coolant	Ethylene Glycol: Aqueous Solution (50%v: 50%v)
Cycles	6000
Fire Extinguisher	Perfluorohexanone
Fire Safety Equipment	Smoke, heat & 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 (kV)	380/400
Rated Grid Frequency (Hz)	50/60
THD 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°C to 55°C (> 45°C derating)
Noise (dB)	<75
Dimensions (W*D*H) (mm)	935 × 1250 × 2380
Weight (T)	2.3 ± 0.2
Anti-corrosion	C4
IP Rating	Battery Compartment: IP65 Electrical Compartment: IP54
Operating Humidity	0-95% (non-condensing)
Operating Altitude (m)	≤3000 (>2000 derating)
Efficiency	Up to 86%
Communication Interface	CAN, Ethernet
Communication Protocol	ModbusTCP, MQTT
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-backflow	Yes
Certification	
BMS	GB/T34131-2017; UL60730
Battery	GB/T36276-2018; IEC62619; UL1973; UL9540A
PCS	GB/T 34120-2017; GB/T 34133 CE EN50549-1:2019+AC:2019-04; CEI 0-21 CEI 0-16; NRS097-21-1:2017 EN50549+Deviations of Netherlands C10/11:2019



AC EV Charger

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

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.

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

✔ Support multiple charging modes, including green power mode

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

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

✔ Excellent industrial design brings a pleasant user experience

✔ 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		

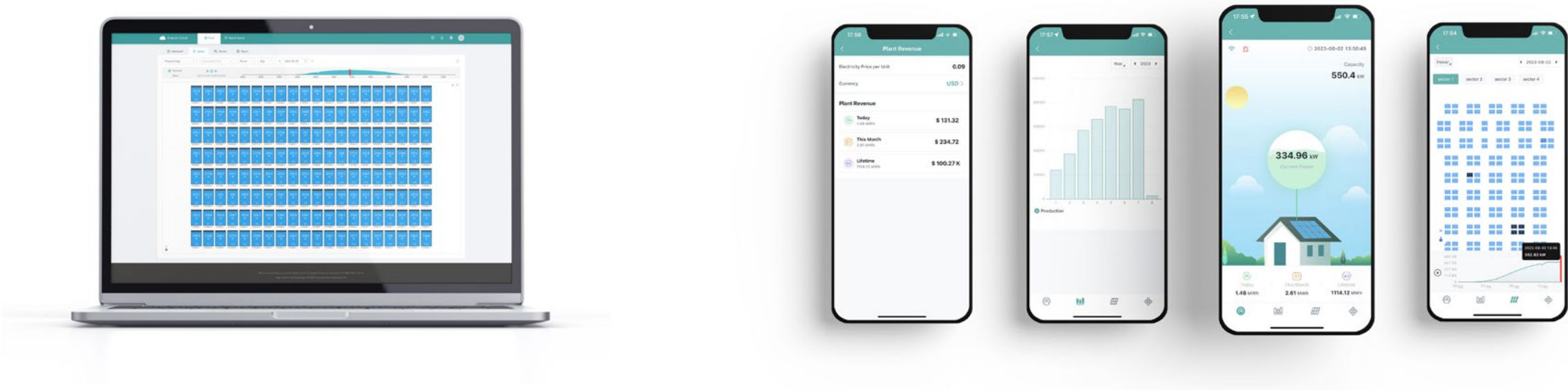


S-Miles Cloud

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

Available:

- ✓ Webpage
- ✓ APP- Android / IOS





Floating Project

Hoymiles floating project was completed in Israel in 2022. It's a 300kW Project with the remarkable module-level monitoring capacity. HMS-1800 microinverters are working under water to power the whole system.

How can Hoymiles help with your floating solar system?

In the next few years, floating solar panels are probably going to go from being quite rare to being the norm all over the world. And no wonder: They cut out lots of the drawbacks of land-based solar system and provide some extra benefits of their own too.

But they're definitely harder to install and maintain than traditional solar panels – which means that, if you want to get the most out of them, you'll need to choose every component of your system very carefully.

At Hoymiles, we're known around the world for reliable, robust microinverters. Microinverters that

not only convert solar energy from DC to usable AC power with incredible efficiency but which are also built to hold up against the elements.

Hoymiles microinverters are:

- IP67 rated, and built to resist both water and damaging solids like dirt and debris. Crucially, all of our microinverters are compliant with corrosion resistance standards like ISO 9223:2012, and are classified as C5 “very high” anti-corrosivity – so you can have complete confidence in their performance, whether your solar system is installed inland or near the coastline.
- Built with aluminium alloy covers and a durable powder coating, designed to withstand anything the world – or the water – can throw at them.
- Tested thoroughly – we even put them through a 500-hour salt spray test to make sure they can survive in seawater too. We also test their performance in a variety of environments, including temperate and subtropical zones and atmospheric environments with very high pollution or chloride concentrations (such as industrial areas, coastal areas, and sheltered positions on coastlines).
- Designed to work underwater as well as above the surface.

In fact, our microinverters are already delivering results at a 300 kW floating solar system in Israel, providing outstanding efficiency and total reliability every day.



259.2 kW

Location: Bangkok, Thailand

HM-1500 * 142 units

2023.01

Commercial Project Cases

Capacity: **390 kW**

Location: Bangkok, Thailand

HMS-2000-4T * 195 units

2020.04



Capacity: **300 kW**

Location: Bangkok, Thailand

HMS-2000-4T * 150 units

2023.05



Capacity: **250 kW**

Location: Ayutthai, Thailand

MI-1500 * 160 units

2020.03



Commercial Project Cases

Capacity: **53 kW**
Location: Cainta, Philipines
HMS-2000-4T * 25 units
2023.07



Commercial Project Cases

Capacity: **27 kW**
Location: Jawa Barat, Indonesia
HMS-1800-4T * 15 units
2022.06



Capacity: **100 kW**
Location: Canberra, Australia
HME-1200-AU * 80 units
2022.06



Capacity: **23.76 kW**
Location: Johannesburg, SouthAfrica
MI-1200 * 15 units
2019.07



RSD
Project Cases

Capacity: **5 MW**
Location: Batangas, Philippines
HT10 Kit
HRSD-2C * 5000 units
2023.04



RSD
Project Cases

Capacity: **237.6 kW**
Location: Rayong, Thailand
HT10 Kit
HRSD-2C * 198 units
2024.03



Capacity: **364.1 kW**
Location: Rayong, Thailand
HT10 Kit
HRSD-2C * 300 units
2024.04

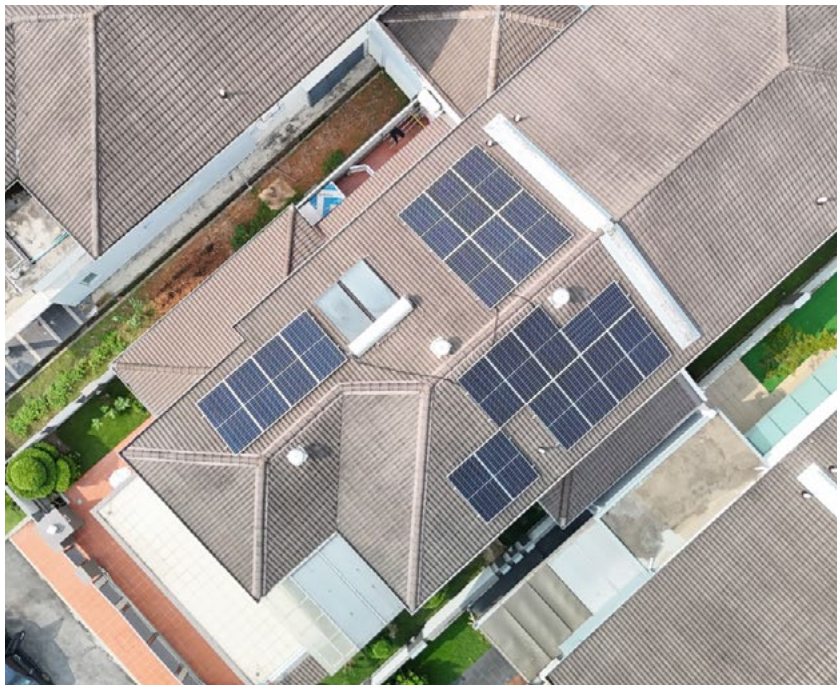


Capacity: **237.6 kW**
Location: Pathumthani, Thailand
HT10 Kit
HRSD-2C * 198 units
2024.03



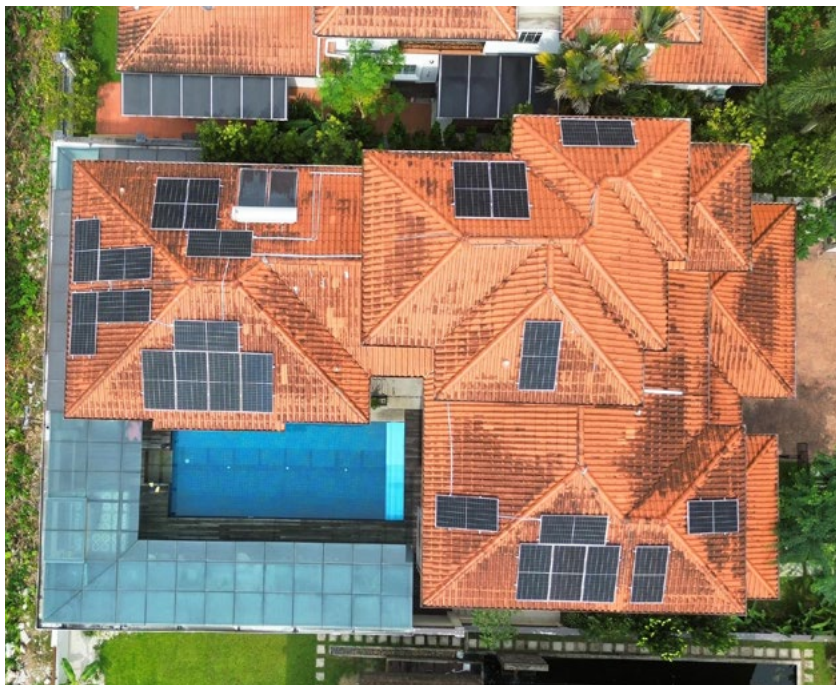
Residential Project Cases

Capacity: **11.5 kW**
Location: PJ, Selangor, Malaysia
HMS-1800-4T * 5 units
2024.04

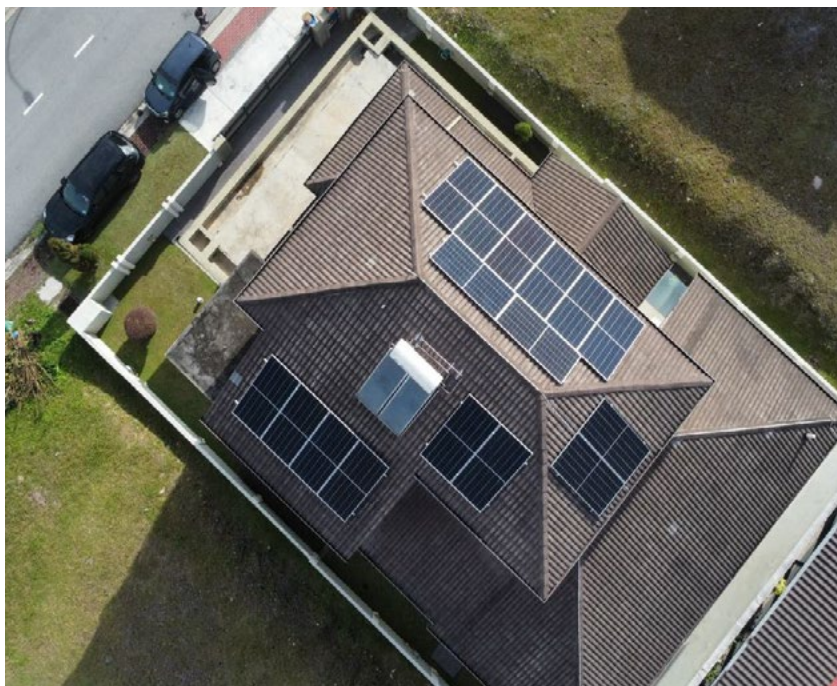


Residential Project Cases

Capacity: **13.34 kW**
Location: PJ, Selangor, Malaysia
HMS-1800-4T * 5 units
HMS-900-2T * 1 unit
2024.08



Capacity: **9.68 kW**
Location: PJ, Selangor, Malaysia
HMS-2000-4T * 4 units
2024.08



Capacity: **11.6 kW**
Location: Kuala Lumpur Malaysia
HMS-2000-4T * 5 units
2024.08



Residential Project Case

Capacity: **5 kW**
Location: Bangkok, Thailand
HYS-5.0LV.EUG1 * 1 unit
2024.07



Residential Project Cases

Capacity: **5 kW**
Location: Melbourne, Australia
HYS-5.0LV-AUG1 * 1 unit
2024.02



Capacity: **15 kW**
Location: Brisbane, Australia
HYS-5.0LV-AUG1 * 3 units
2024.02



Capacity: **5 kW**
Location: Melbourne, Australia
HYS-5.0LV-AUG1 * 1 unit
2024.02



100 KW / 215 KWh

Location: Germany
HoyUltra All-in-One Battery System * 1 unit
2024.08



BESS Project Cases

Capacity: 200 KW / 430 KWh

Location: Slovenia

HoyUltra All-in-One Battery
System * 2 units

2024.03



Capacity: 400 KW / 860 KWh

Location: Hangzhou, China

HoyUltra All-in-One Battery
System * 4 units

2023.12



Worldwide Project Cases

Farm Project

Capacity: **281 kW**
Location: Central Missouri, US
MI-1200 * 186 units



Capacity: **12 kW**
Location: Sao Paulo
HMS-2000 * 5 units



Capacity: **31.5 kW**
Location: Nova Scotia, Canada
HM-1500NT * 25 units



Worldwide Project Cases

Capacity: **3.6 kW**
Location: Saubens, France
HMS-500 * 6 units



Capacity: **158 kW**
Location: Johannesburg, South Africa
MI-600 * 231 units



Capacity: **63.6 kW**
Location: Pärnu county, Estonia
MI-600 * 106 units



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