Hoymiles



HOYMILES PRODUCT BROCHURE

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RESIDENTIAL SCENARIO

Solar Solution

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

SOLUTION HIGHLIGHTS

Higher Power Yield

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

Remote Monitoring

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

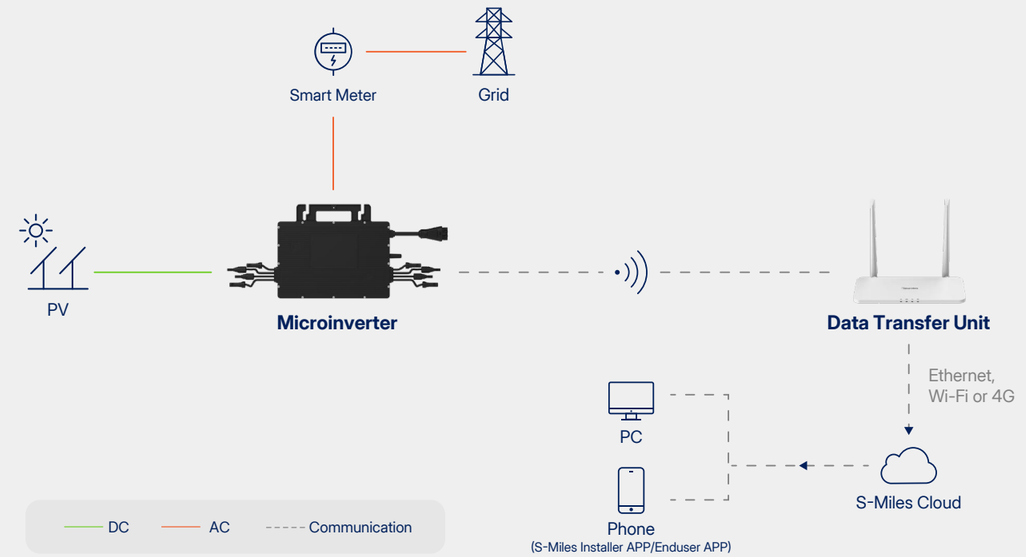
Enhanced Safety

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

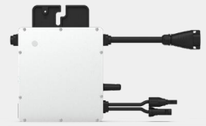
Worry-Free Expansion

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

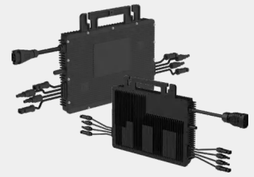




What Hoymiles Offers



SINGLE-PHASE MICROINVERTER
HMS SERIES



THREE-PHASE MICROINVERTER
MIT/HMT SERIES



SINGLE-PHASE MICROINVERTER
(WI-FI INTEGRATED)



DATA TRANSFER
UNIT

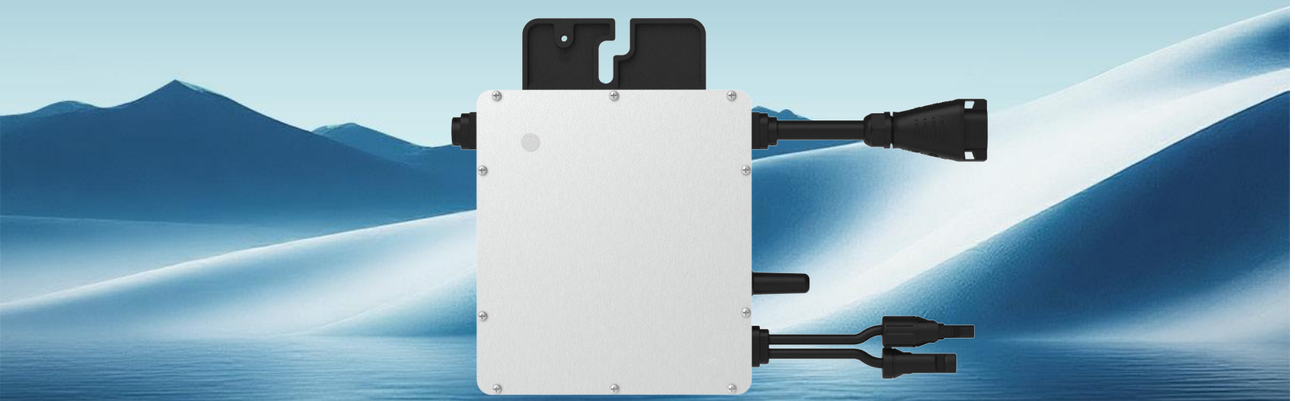


MONITORING
PLATFORM

MICROINVERTER | HMS SERIES

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

1-in-1 | 0.3-0.5kW | Single Phase



Features

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

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

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

04 Connected to one panel, flexible for various applications

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

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

Technical Specifications

Model	HMS-300-1T	HMS-350-1T	HMS-400-1T	HMS-450-1T	HMS-500-1T
Input Data (DC)					
Commonly used module power (W)	240 to 405+	280 to 470+	320 to 540+	360 to 600+	400 to 670+
Maximum input voltage (V)	60	60	65	65	65
MPPT voltage range (V)	16 -60				
Start-up voltage (V)	22				
Maximum input current (A)	12	13	14	15	16
Maximum input short circuit current (A)	20	20	25	25	25
Number of MPPTs	1				
Number of inputs per MPPT	1				
Output Data (AC)					
Rated output power (VA)	300	350	400	450	500
Rated output current (A)	1.30	1.52	1.74	1.96	2.17
Nominal output voltage/range (V)*	230/180–275				
Nominal frequency/range (Hz)*	50/45-55				
Adjustable power factor (@nominal power)	> 0.99 default 0.8 leading ... 0.8 lagging				
Total harmonic distortion (@nominal power)	< 3%				
Maximum units per 2.5 mm² branch**	19	16	14	12	11
Maximum units per 4 mm² branch**	26	22	19	17	15
Maximum units per 6 mm² branch**	30	26	23	20	18
Efficiency					
Peak efficiency	96.7%	96.7%	96.7%	96.5%	96.5%
Nominal MPPT efficiency	99.8%				
Night power consumption (mW)	< 50				
Mechanical Data					
Ambient temperature range (°C)	-40 to +65				
Dimensions (W × H × D [mm])	182 × 164 × 30				
Weight (kg)	1.75				
Enclosure rating	Outdoor-IP67				
Cooling	Natural convection-No fans				
Features					
Communication	Sub-1G				
Type of isolation	Galvanically Isolated HF Transformer				
Monitoring	S-Miles Cloud (Hoymiles Monitoring Platform)				
Compliance	EN 50549-1: 2019, VDE-AR-N 4105: 2018, VFR2019, IEC/EN 62109-1/-2,IEC/EN 61000-6-1/-2/-3/-4, IEC/EN 61000-3-2/-3				

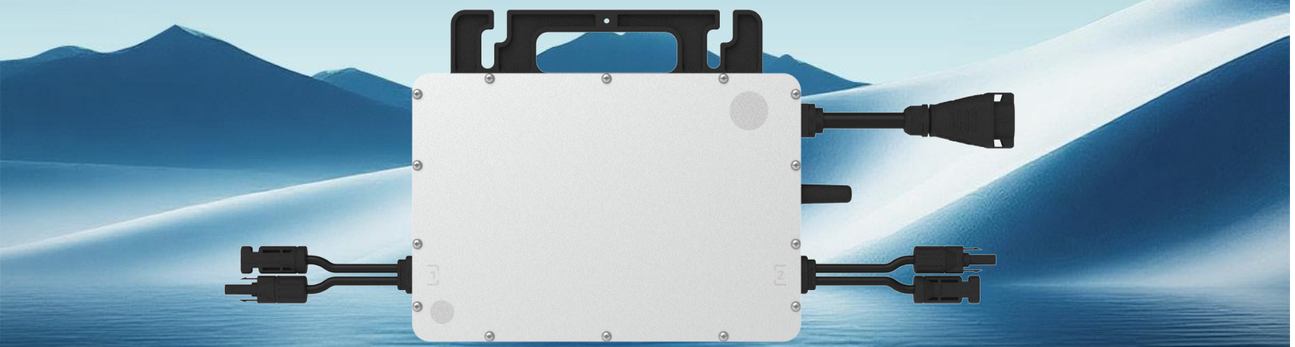
* : Nominal voltage/frequency range can vary depending on local requirements.
** : Refer to local requirements for exact number of microinverters per branch.

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MICROINVERTER | HMS SERIES

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

2-in-1 | 0.6-1kW | Single Phase



Features

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

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

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

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

05 2-in-1 design enables faster installation

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

Technical Specifications

Model	HMS-600-2T	HMS-700-2T	HMS-800-2T	HMS-900-2T	HMS-1000-2T
Input Data (DC)					
Commonly used module power (W)	240 to 405+	280 to 470+	320 to 540+	360 to 600+	400 to 670+
Maximum input voltage (V)	60	60	65	65	65
MPPT voltage range (V)	16 -60				
Start-up voltage (V)	22				
Maximum input current (A)	2 × 12	2 × 13	2 × 14	2 × 15	2 × 16
Maximum input short circuit current (A)	2 × 20	2 × 20	2 × 25	2 × 25	2 × 25
Number of MPPTs	2				
Number of inputs per MPPT	1				
Output Data (AC)					
Rated output power (VA)	600	700	800	900	1000
Rated output current (A)	2.61	3.04	3.48	3.91	4.35
Nominal output voltage/range (V) *	230/180–275				
Nominal frequency/range (Hz) *	50/45–55				
Adjustable power factor (@nominal power)	> 0.99 default 0.8 leading ... 0.8 lagging				
Total harmonic distortion (@nominal power)	< 3%				
Maximum units per 2.5 mm² branch **	9	8	7	6	5
Maximum units per 4 mm² branch **	13	11	9	8	7
Maximum units per 6 mm² branch **	15	13	11	10	9
Efficiency					
Peak efficiency	96.7%	96.7%	96.7%	96.5%	96.5%
Nominal MPPT efficiency	99.8%				
Night power consumption (mW)	< 50				
Mechanical Data					
Ambient temperature range (°C)	-40 to +65				
Dimensions (W × H × D [mm])	261 × 180 × 35.1				
Weight (kg)	3.2				
Enclosure rating	Outdoor-IP67				
Cooling	Natural convection-No fans				
Features					
Communication	Sub-1G				
Type of isolation	Galvanically Isolated HF Transformer				
Monitoring	S-Miles Cloud (Hoymiles Monitoring Platform)				
Compliance	EN 50549-1: 2019, VDE-AR-N 4105: 2018, VFR2019, IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4, IEC/EN 61000-3-2/-3				

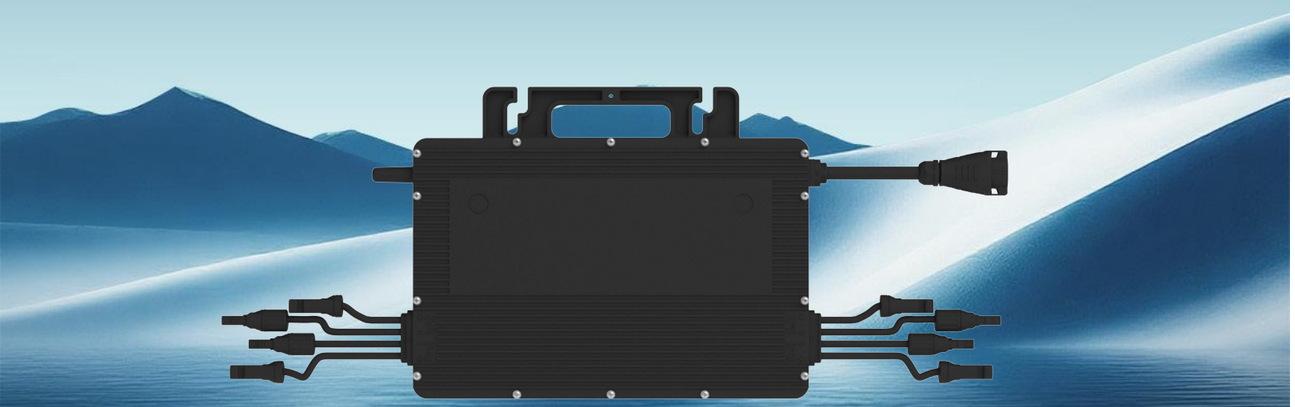
* : Nominal voltage/frequency range can vary depending on local requirements.
** : Refer to local requirements for exact number of microinverters per branch.

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MICROINVERTER | HMS SERIES

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.

4-in-1 | 1.6-2kW | Single Phase



Features

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

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

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

04 4-in-1 design enables faster installation and comes with a lower cost

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

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

Technical Specifications

Model	HMS-1600-4T			HMS-1800-4T			HMS-2000-4T		
Input Data (DC)									
Commonly used module power (W)	320 to 540+			360 to 600+			400 to 670+		
Maximum input voltage (V)	65								
MPPT voltage range (V)	16–60								
Start-up voltage (V)	22								
Maximum input current (A)	4 × 14			4 × 15			4 × 16		
Maximum input short circuit current (A)	4 × 25								
Number of MPPTs	4								
Number of inputs per MPPT	1								
Output Data (AC)									
Rated output power (VA)	1600			1800			2000		
Rated output current (A)	7.27	6.96	6.67	8.18	7.83	7.50	9.09	8.70	8.33
Nominal output voltage/range (V)*	220/180–275	230/180–275	240/180–275	220/180–275	230/180–275	240/180–275	220/180–275	230/180–275	240/180–275
Nominal frequency/range (Hz)*	50/45–55 or 60/55–65								
Adjustable power factor (@nominal power)	> 0.99 default 0.8 leading ... 0.8 lagging								
Total harmonic distortion (@nominal power)	< 3%								
Maximum units per 2.5 mm² line**	3	3	3	3	3	3	2	2	3
Maximum units per 4 mm² line**	4	4	5	4	4	4	3	3	4
Maximum units per 6 mm² line**	5	5	6	4	5	5	4	4	4
Efficiency									
Peak efficiency	96.70%			96.50%			96.50%		
Nominal MPPT efficiency	99.80%								
Night power consumption (mW)	< 50								
Mechanical Data									
Ambient temperature range (°C)	-40 to +65								
Dimensions (W × H × D [mm])	331 × 218 × 40.6								
Weight (kg)	5.56								
Enclosure rating	Outdoor-IP67								
Cooling	Natural convection-No fans								
Features									
Communication	Sub-1G								
Type of isolation	Galvanically Isolated HF Transformer								
Monitoring	S-Miles Cloud (Hoymiles Monitoring Platform)								
Compliance	EN 50549-1: 2019, EN 50549-10: 2022, VDE-AR-N 4105: 2018, NF EN 50549-1: 2019, NF EN 50549-10: 2022, IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4, IEC/EN 61000-3-2/-3								

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

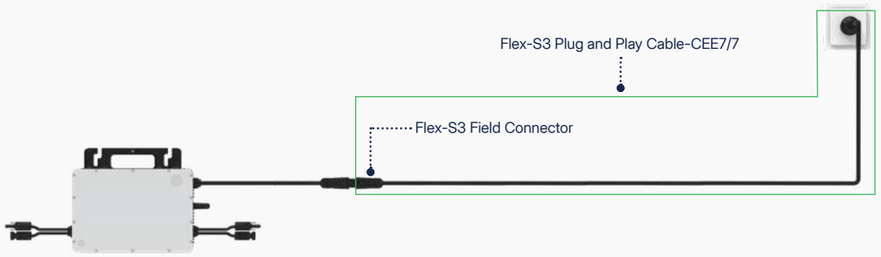
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Flex-S3 Cable Accessories

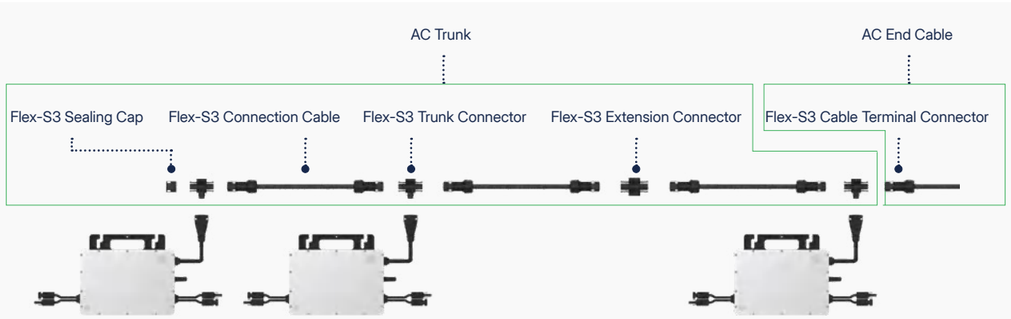
I Simplify Your Installation with Easy & Flexible & Reliable Cable System

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

Single-Microinverter System



Multi-Microinverter System



Time-saving & Cost-effective

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

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*

Compatibility

- *Work seamlessly with the current HMS series microinverters*

Reliability

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

Single-Microinverter System

Flex-S3 Field Connector

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



Flex-S3 Plug and Play Cable-CEE7/7

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



Technical Specifications

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

Ordering Options

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

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

***: The S3-FC-EN15S and S3-FC-EN15S (100PCS) are designed for solid wire and use screws to hold the conductors in place, while the S3-FC-EN15C (100PCS) is designed for stranded wire and uses a crimping method to secure the conductors.*

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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 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

Ordering Options

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

Name	Connection Cable New Model (Previous Model)*	Conductors Cross Sectional Area	Rated Current @55 °C**	Cable Length Between Connectors***	Minimum Bending Radius	Number per Box	Box Dimensions
Flex-S3 Connection Cable	S3-CC-EN25-110 (HMS Connection Cable-EN25-110)	3 × 2.5 mm²	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 mm²	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 mm²	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 mm²	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 mm²	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 mm²	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 mm²	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 mm²	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 mm²	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 mm²	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 mm²	40 A	1.1 m	10 cm	TBD	480 × 354 × 265 mm
	S3-CC-EN60-200 (HMS Connection Cable-EN60-200)	3 × 6.0 mm²	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 mm²	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 mm²	40 A	3.0 m	10 cm	TBD	480 × 354 × 265 mm
	S3-CC-EN60-460 (HMS Connection Cable-EN60-460)	3 × 6.0 mm²	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.*

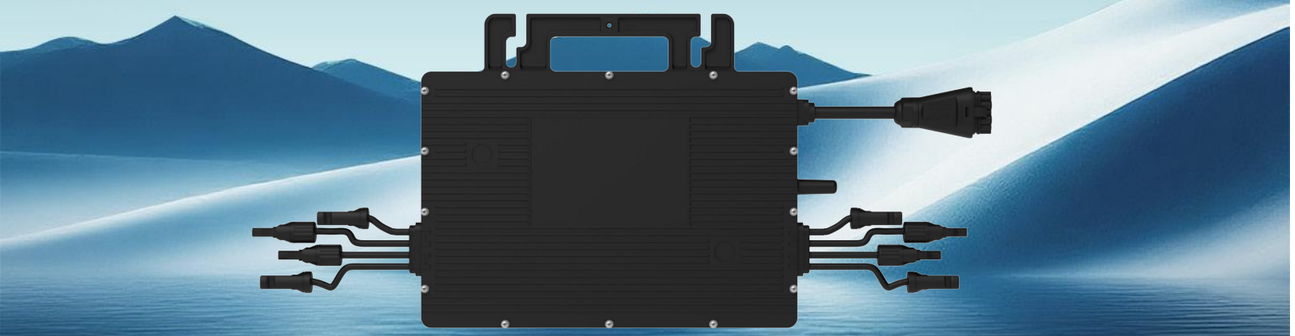
****: Cable length is customizable. For more details, please contact the Hoymiles sales team.*

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MICROINVERTER | HMT SERIES

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

4-in-1 | 1.6-2kW | Three Phase



Features

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

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

03 Grid protection relay integrated

04 4-in-1 design enables faster installation and comes with a lower cost

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

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

Technical Specifications

Model	HMT-1600-4T	HMT-1800-4T	HMT-2000-4T
Input Data (DC)			
Commonly used module power (W)	320 to 540+	360 to 600+	400 to 670+
Maximum input voltage (V)		65	
MPPT voltage range (V)		16–60	
Minimum/Maximum start-up voltage(V)		22/60	
Maximum input current (A)	4 × 14	4 × 15	4 × 16
Maximum input short circuit current (A)		4 × 25	
Number of MPPTs		2	
Number of inputs per MPPT		2	
Output Data (AC)			
Grid Type		Three Phase	
Rated output power (VA)	1600	1800	2000
Rated output current (A)	2.32 × 3	2.61 × 3	2.9 × 3
Nominal output voltage (V)		230/400, 3W+N+PE	
Nominal frequency (Hz)		50	
Adjustable power factor (@nominal power)		> 0.99 default	
Total harmonic distortion (@nominal power)		< 3%	
Maximum units per 2.5 mm ^{2} branch *	9	8	7
Maximum units per 4 mm ^{2} branch *	12	11	10
Maximum units per 6 mm ^{2} branch *	16	14	13
Efficiency			
Peak efficiency		96.50%	
Nominal MPPT efficiency		99.80%	
Night power consumption (mW)		< 50	
Mechanical Data			
Ambient temperature range (°C)		-40 to +65	
Storage temperature range (°C)		-40 to +85	
Dimensions (W × H × D [mm])		326 × 222 × 40.6	
Weight (kg)		5.9	
Enclosure rating		Outdoor-IP67	
Cooling		Natural convection-No fans	
Features			
Communication		Sub-1G	
Type of isolation		Galvanically Isolated HF Transformer	
Monitoring		S-Miles Cloud **	
Compliance		VDE-AR-N 4105: 2018, EN 50549-1:2019, VFR 2019, IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4, IEC/EN 61000-3-2/-3	

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

**: Hoymiles Monitoring System

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Cable Accessories for Microinverter of HMT Series



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

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



3P-AC Trunk Port Cap

Used to protect vacant AC Trunk Port.



3P-AC Trunk End Cap

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



3P-AC Trunk Port Disconnect Tool

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



3P-AC Trunk Connector Unlock Tool

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



DC Extension Cable

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

Technical Specifications

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

Model	3P-AC Trunk Connector
Main Parameters	
Pin number	3P+N+PE
Rated current	32 A (Use 10 AWG/6mm² 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

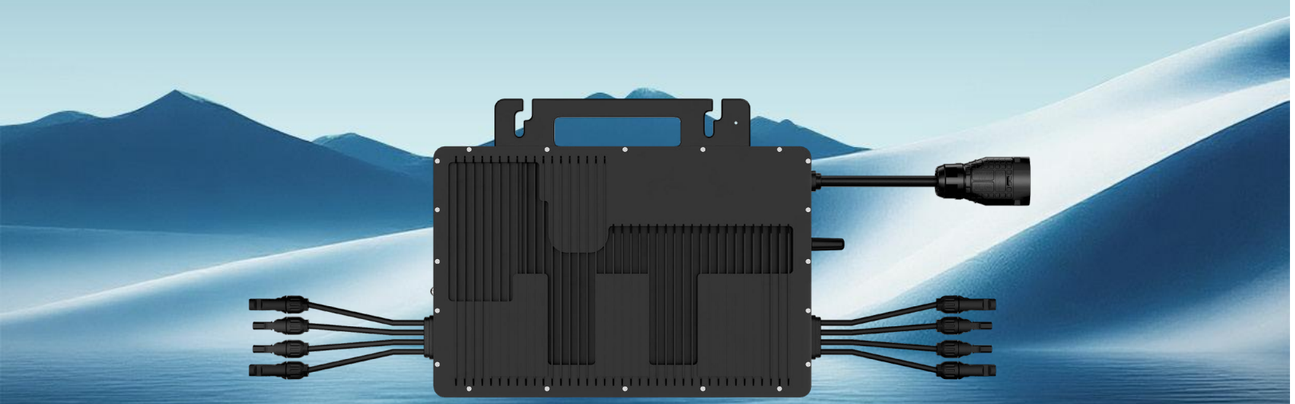
Model	DC Extension Cable	
Cable		
Cable type	PV1-F 1X4	
Rated current	20 A	
Rated voltage	Max.1800V DC	
Cable length	1 m	
Ambient temperature range	-40°C to +90°C	
Product standard	2 PfG 1169/08.2007	
DC Connector		
Manufacturer	Betteri	Staubli
Type	BC03A, BC03B	PV-KBT4/6II-UR
Rated current	30 A	39 A (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	

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MICROINVERTER | MIT SERIES

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

4-5kW | Three Phase



Features

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

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

03 Four MPPTs, optimizing power generation

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

05 8-in-1 design for quick installation with Flex-T5 Cable System, reducing costs

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

Technical Specifications

Model	MIT-4000-8T		MIT-4500-8T		MIT-5000-8T	
Input Data (DC)						
Commonly used module power (W)	400 to 650+		560 to 700+		600 to 750+	
Maximum input voltage (V)	140					
Minimum/Maximum start-up voltage (V)	32/136					
MPPT voltage range (V)	12-136					
Peak power MPPT voltage range (V)	58-136		59-136		66-136	
Maximum input current (A)	4 × 20					
Maximum input short circuit current (A)	4 × 25					
Number of MPPTs	4					
Number of inputs per MPPT	1					
Output Data (AC)						
Grid type	Three Phase					
Rated output power (W)	4000		4500		5000	
Rated output current (A)	3 × 6.06	3 × 5.79	3 × 6.82	3 × 6.52	3 × 7.58	3 × 7.25
Nominal output voltage (V)	220/380, 3L+N+PE	230/400, 3L+N+PE	220/380, 3L+N+PE	230/400, 3L+N+PE	220/380, 3L+N+PE	230/400, 3L+N+PE
Nominal frequency (Hz)*	50/60					
Nominal range (Hz)*	45-55 / 55-65					
Adjustable power factor (@rated power)	>0.99 default 0.8 leading ... 0.8 lagging					
Total harmonic distortion (@rated power)	< 3%					
Maximum units per 2.5 mm² branch**	4	4	3	4	3	3
Maximum units per 4 mm² branch**	5	5	4	5	4	4
Maximum units per 6 mm² branch**	6	6	5	6	5	5
DC/AC ratio	≤ 1.35					
Efficiency						
Peak efficiency	97.40%		97.40%		97.40%	
EU weighted efficiency	96.10%		96.30%		96.40%	
Nominal MPPT efficiency	99.80%					
Night power consumption (mW)	< 50					
Mechanical Data						
Ambient temperature range (°C)	-40 to +65					
Storage temperature range (°C)	-40 to +85					
Dimensions (W × H × D [mm])	395 × 308 × 60					
Weight (kg)	9					
Enclosure rating	Outdoor-IP67					
Cooling	Natural convection-No fans					
Features						
Communication	Sub-1G					
Topology	Transformerless					
Monitoring	S-Miles Cloud (Hoymiles Monitoring Platform)					
Compliance	EN 50549-1: 2019, EN 50549-10:2022 IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4, IEC/EN 61000-3-2/-3, UL 3741					

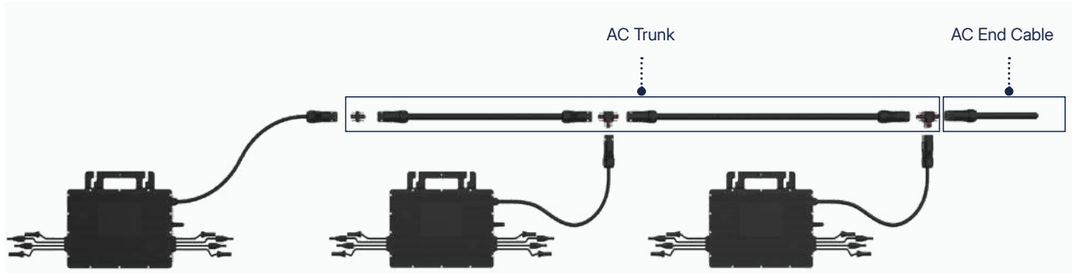
* : The parameter may vary depending on local requirements.
**: Refer to local requirements for exact number of microinverters per branch.

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Flex-T5 Cable Accessories

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

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



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

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

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

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

Flex-T5 Connection Cable

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



Flex-T5 Trunk Connector

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



Flex-T5 Extension Connector

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



Flex-T5 Cable Terminal Connector

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



Flex-T5 Disconnect Tool

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



Technical Specifications

Connector System Parameter	
Compatible microinverter	MiT series
Pin number	3P + N + PE
Rated voltage	500 V
Rated current	40 A
Max. supported conductor size	6.0 mm²
Max. supported cable outer diameter	20.5 mm
Ambient temperature range	-40°C to +85°C
Protection rating	IP68
Flame resistance degree	UL94-V0
Compliance	RoHS, UV Resistant
Product standard	EN 61984
Cable Parameter	
Cable type	H07RN-F
Rated voltage	450 V / 750 V
Conductor size	2.5 / 4.0 / 6.0 mm²
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 mm²	22 A	2.3 m	9 cm	TBD	345 mm × 345 mm × 375 mm
T5-CC-EN25-300	5 × 2.5 mm²	22 A	3.0 m	9 cm	TBD	345 mm × 345 mm × 375 mm
T5-CC-EN25-460	5 × 2.5 mm²	22 A	4.6 m	9 cm	TBD	345 mm × 345 mm × 375 mm
T5-CC-EN40-230	5 × 4.0 mm²	30 A	2.3 m	11 cm	TBD	345 mm × 345 mm × 375 mm
T5-CC-EN40-300	5 × 4.0 mm²	30 A	3.0 m	11 cm	TBD	345 mm × 345 mm × 375 mm
T5-CC-EN40-460	5 × 4.0 mm²	30 A	4.6 m	11 cm	TBD	345 mm × 345 mm × 375 mm
T5-CC-EN60-230	5 × 6.0 mm²	39 A	2.3 m	12 cm	TBD	345 mm × 345 mm × 375 mm
T5-CC-EN60-300	5 × 6.0 mm²	39 A	3.0 m	12 cm	TBD	345 mm × 345 mm × 375 mm
T5-CC-EN60-460	5 × 6.0 mm²	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.

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COMMUNICATION | DTU-PRO-S

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

WiFi | Ethernet | 4G | Max. 99 PV panels



Features

01 Reliable and Flexible

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

02 Simple and Efficient O&M

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

03 Smart

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

Technical Specifications

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

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

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COMMUNICATION | DTU-LITE-S

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

WiFi | Max. 99 PV panels



Features

01 Module-level monitoring and data storage

02 Plug and play, easy installation

03 Sub-1G wireless solution with microinverter

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

05 Remote system management on S-Miles Cloud

Technical Specifications

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

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

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COMMUNICATION | DTU-WLITE-S

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

WiFi | 4 Max. PV panels



Features

01 Module-level monitoring and data storage

02 Plug and play, easy installation

03 Lightweight and compact design

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

05 Sub-1G wireless solution with microinverter

06 Remote system management on S-Miles Cloud

Technical Specifications

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

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

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S-Miles Cloud

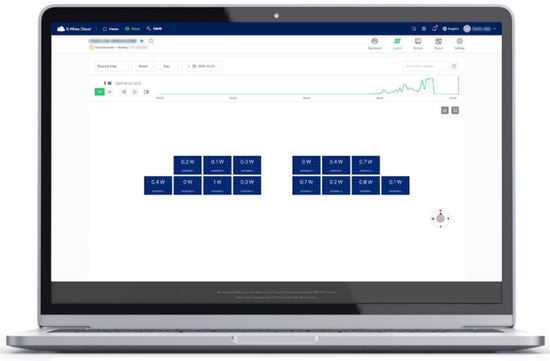
· Module level monitoring

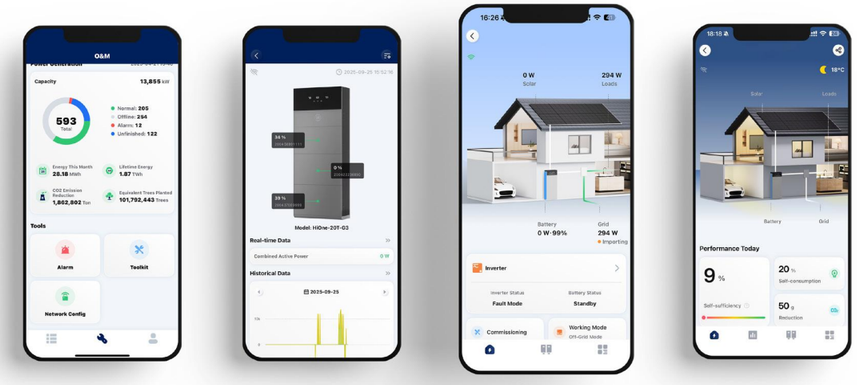
· Individual MPPT

· Easy to operation and maintain the system

Available:

- [x] Webpage
- [x] APP- Android / IOS

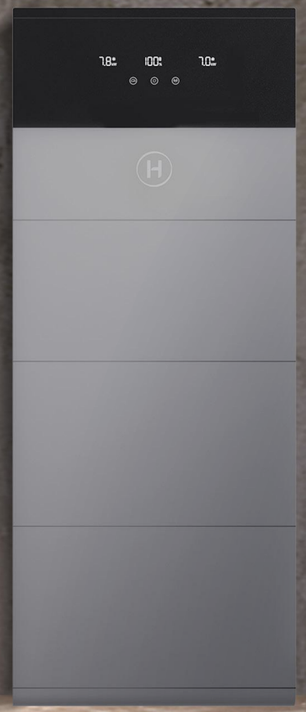




RESIDENTIAL SCENARIO

All-in-One Solution

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



What Hoymiles Offers



HIONE



DTS-WL



GATEWAY



SMART METER



MONITORING PLATFORM

SOLUTION HIGHLIGHTS

Slimmer

Integrates the inverter, EV charger, battery, and EMS into one compact unit, reducing the overall footprint compared to separate components.

Stronger

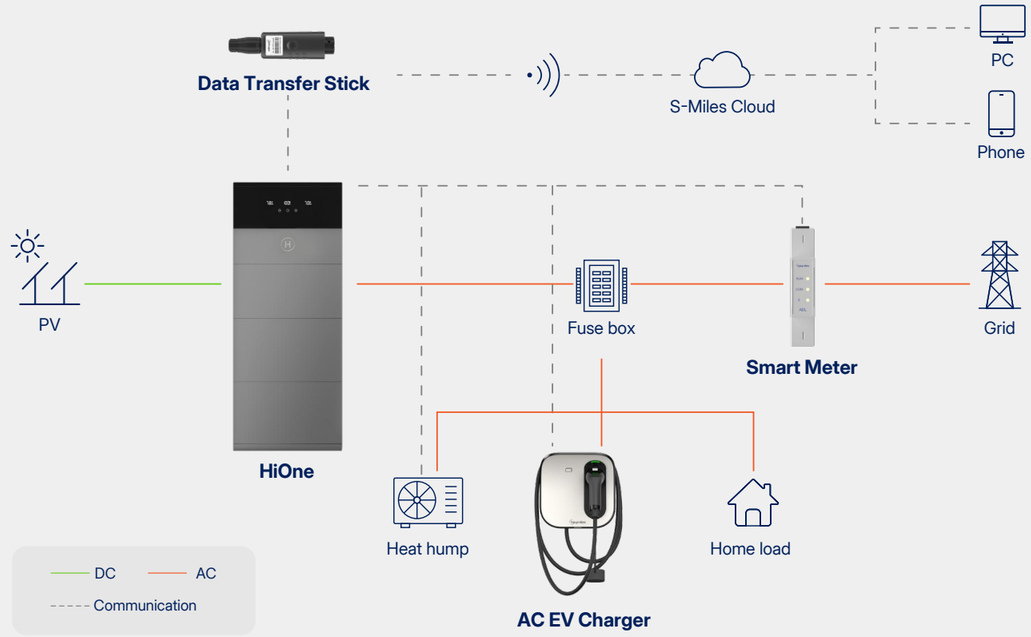
Supports flexible system design with 4 MPPTs and up to 20A input current, while enabling mix-and-match battery expansion up to 64 kWh per unit.

Faster

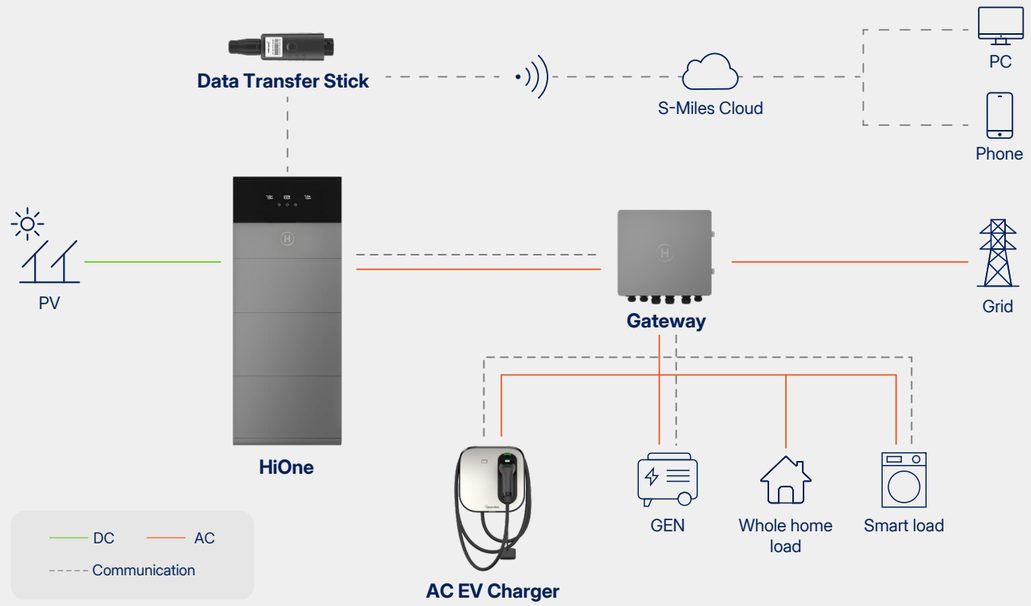
Plug-and-play connections and a stackable battery design enable installation in as little as 15 minutes.



Single Unit Solution



Whole Home Backup Solution



ALL-IN-ONE BESS | HIONE

3.6-12kW | Single-phase



Features

01 Up to 200% DC/AC oversizing to significantly boost power generation efficiency

02 Four independent 18 A MPPTs, perfectly compatible with high-power modules and multi-orientation rooftops

03 Rugged IP66 enclosure design ensures performance in harsh environments

04 Enables up to 150% off-grid peak output, allowing effortless startup of inductive loads

05 Built-in intelligent EMS automatically optimizes energy storage and consumption strategies

06 Integrated AFCI (Arc Fault Circuit Interrupter) actively detects arcs to prevent fire hazards

Technical Specifications

Model	HiOne-3.6S-G3	HiOne-4.6S-G3	HiOne-5S-G3	HiOne-6S-G3	HiOne-8S-G3	HiOne-10S-G3	HiOne-12S-G3
Battery							
Battery type	Li-ion						
Battery voltage range (V)	390-500						
Compatible battery model	HiOne-8B-G3						
Number of modules	1-8[1]						
PV Input							
Recommended max. PV power (W)	7200	9200	10000	12000	16000	20000	24000
Max. input voltage (V)	600						
Rated voltage (V)	380						
Start-up voltage (V)	70						
MPPT voltage range (V)	50-550						
Max. input current (A)	18/18	18/18/18				18/18/18/18	
Max. short circuit current (A)	27/27	27/27/27				27/27/27/27	
MPPT number/Max. input strings number	2/2	3/3				4/4	
AC Output							
Rated output power (W)	3680	4600	5000	6000	8000	10000	12000
Max. on-grid output apparent power (VA)	3680	4600	5500	6600	8800	11000	13200
Max. output current (A)	16.7	20.9	25.0	30.0	40.0	50.0	60.0
Max. off-grid output apparent power (VA)[2]	5520 (10s)	6900 (10s)	7500 (10s)	9000 (10s)	12000 (10s)	15000 (10s)	18000 (10s)
Grid form	L/N/PE						
Rated AC output voltage (V)	220/230/240						
Rated grid frequency (Hz)	50/60						
Power factor	>0.99 (0.8 leading-0.8 lagging)						
THDi (@rated output)	<3%						
Efficiency							
Max. efficiency	98.0%						
EU efficiency	97.5%						
Protection							
Anti-islanding protection	Integrated						
PV string input reverse polarity protection	Integrated						
Insulation resistor detection	Integrated						
Residual current monitoring unit	Integrated						
AC overcurrent protection	Integrated						
AC short circuit protection	Integrated						
AC overvoltage and undervoltage protection	Integrated						
Surge protection	DC Type II / AC Type II						
General							
Dimensions (W × H × D [mm])	620 × 360 × 255						
Weight (kg)	27						
Mounting	Wall-mounted / Floor-standing						
Operating temperature (°C)	-30 to +65 (>45, derating)						
Relative humidity	0-95%, no condensation						
Cooling	Natural convection					Intelligent air cooling	
Topology	Non-isolation						
Altitude (m)	≤4000						
Protection degree	IP66						
Noise (dB)	<35					<55	
User interface	LED & App						
Communication	RS485, Bluetooth, Wi-Fi / Ethernet (optional)						

(1) Up to four modules can be stacked in one battery tower.

(2) Applicable only when the inverter is connected to Hoymiles gateway.

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ALL-IN-ONE BESS | HIONE

8-20kW | Three-phase



Features

01 Up to 200% DC/AC oversizing to significantly boost power generation efficiency

02 Four independent 20 A MPPTs, perfectly compatible with high-power modules and multi-orientation rooftops

03 Rugged IP66 enclosure design ensures performance in harsh environments

04 Enables up to 150% off-grid peak output, allowing effortless startup of inductive loads

05 Built-in intelligent EMS automatically optimizes energy storage and consumption strategies

06 Supports three-phase unbalanced output, ensuring stable operation under complex load conditions

Technical Specifications

Model	HiOne-8T-G3	HiOne-10T-G3	HiOne-12T-G3	HiOne-16T-G3	HiOne-20T-G3
Battery					
Battery type	Li-ion				
Battery voltage range (V)	720-950				
Compatible battery model	HiOne-8B-G3				
Number of modules	1-8(1)				
PV Input					
Recommended max. PV power (W)	16000	20000	24000	32000	40000
Max. input voltage (V)	1000				
Rated voltage (V)	720				
Start-up voltage (V)	170				
MPPT voltage range (V)	150-950				
Max. input current (A)	20/20/20		20/20/20/20		
Max. short circuit current (A)	30/30/30		30/30/30/30		
MPPT number/Max. input strings number	3/3		4/4		
AC Output					
Rated output power (W)	8000	10000	12000	16000	20000
Max. on-grid output apparent power (VA)	8800	11000	13200	17600	22000
Max. output current (A)	13.3	16.7	20.0	26.7	33.3
Max. off-grid output apparent power (VA)(2)	12000 (10s)	15000 (10s)	18000 (10s)	24000 (10s)	30000 (10s)
Grid form	3L/N/PE				
Rated AC output voltage (V)	380/400				
Rated grid frequency (Hz)	50/60				
Power factor	>0.99 (0.8 leading-0.8 lagging)				
THDi (@rated output)	<3%				
Efficiency					
Max. efficiency	98.5%				
EU efficiency	98.0%				
Protection					
Anti-islanding protection	Integrated				
PV string input reverse polarity protection	Integrated				
Insulation resistor detection	Integrated				
Residual current monitoring unit	Integrated				
AC overcurrent protection	Integrated				
AC short circuit protection	Integrated				
AC overvoltage and undervoltage protection	Integrated				
Surge protection	DC Type II / AC Type II				
General					
Dimensions (W × H × D [mm])	620 × 360 × 255				
Weight (kg)	31				
Mounting	Wall-mounted / Floor-standing				
Operating temperature (°C)	-30 to +65 (>45, derating)				
Relative humidity	0-95%, no condensation				
Cooling	Natural convection		Intelligent air cooling		
Topology	Non-isolation				
Altitude (m)	≤4000				
Protection degree	IP66				
Noise (dB)	<35		<55		
User interface	LED & App				
Communication	RS485, Bluetooth, Wi-Fi / Ethernet (optional)				

(1) Up to four modules can be stacked in one battery tower.

(2) Applicable only when the inverter is connected to Hoymiles gateway.

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ALL-IN-ONE BESS | HIONE

8.04kWh | 314Ah cells | IP66



Features

01 Equipped with 314 Ah large-capacity cells for extended cycle life and enduring performance

02 Multi-layer protection mechanisms ensure comprehensive electrical safety

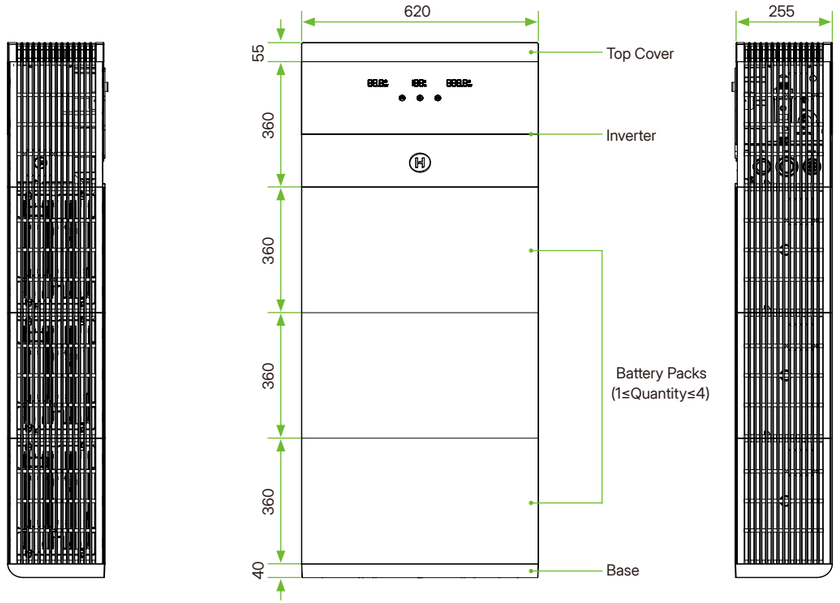
03 Built-in optimizers support mixed use of new and old battery packs, maximizing system scalability

04 Adapts to low temperature with self-heating technology, ensuring performance even in extreme cold

Technical Specifications

Model	HiOne-8B-G3
Battery Data	
Battery type	$LiFePO_4$
Cell capacity (Ah)	314
Total energy (kWh)	8
Usable energy (kWh)	7.2
Max. charging/discharging power (kW)	4
Peak discharge power (kW)	6 (10s)
Max. stackable quantity	4
Max. parallel quantity	2
General	
Dimensions (W × H × D [mm])	620 × 360 × 255 (single pack)
Weight (kg)	67
Mounting	Wall-mounted / Floor-standing
Installation environment	Indoor / Outdoor
Charging/discharging temperature (°C)	-20 to +55
Protection degree	IP66
Cooling	Natural convection
Altitude (m)	≤4000

Unit: mm



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BACKUP BOX | GATEWAY

220/230/240V | Single-phase



Features

01 Provides 0 ms seamless switchover, ensuring an uninterruptible power supply during power outages

02 Compatible with generators, smart loads, and third-party PV systems for flexible energy management

03 Supports whole home backup without the need for complex rewiring or separate critical load panels

04 Features rapid shutdown capability to instantly cut off power sources, maximizing system safety

Technical Specifications

Model	HiBox-100S-G3
Grid	
Grid form	L/N/PE
Rated input/output voltage (V)	220/230/240
Rated frequency (Hz)	50/60
Max. input/output current (A)	100
Inverter	
Max. input number	2
Rated input/output voltage (V)	220/230/240
Max. input/output current (A)	50
Smart Port (GEN / PV Inverter / Load)	
Max. input number	1
Rated input/output voltage (V)	220/230/240
Max. input/output current (A)	100
Backup	
Rated output voltage (V)	220/230/240
Max. output current (A)	100
General	
Dimensions (W × H × D [mm])	535 × 490 × 153
Weight (kg)	17.5
Mounting	Wall-mounted
Operating temperature (°C)	-30 to +55
Relative humidity	0-95%, no condensation
Cooling	Natural convection
Altitude (m)	≤4000
Protection degree	IP54
Communication	RS485

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BACKUP BOX | GATEWAY

380/400V | Three-phase



Features

01 Provides 0 ms seamless switchover, ensuring an uninterruptible power supply during power outages

02 Compatible with generators, smart loads, and third-party PV systems for flexible energy management

03 Supports whole home backup without the need for complex rewiring or separate critical load panels

04 Features rapid shutdown capability to instantly cut off power sources, maximizing system safety

Technical Specifications

Model	HiBox-63T-G3
Grid	
Grid form	3L/N/PE
Rated input/output voltage (V)	380/400
Rated frequency (Hz)	50/60
Max. input/output current (A)	63
Inverter	
Max. input number	2
Rated input/output voltage (V)	380/400
Max. input/output current (A)	32
Smart Port (GEN / PV Inverter / Load)	
Max. input number	1
Rated input/output voltage (V)	380/400
Max. input/output current (A)	63
Backup	
Rated output voltage (V)	380/400
Max. output current (A)	63
General	
Dimensions (W × H × D [mm])	535 × 490 × 153
Weight (kg)	17.5
Mounting	Wall-mounted
Operating temperature (°C)	-30 to +55
Relative humidity	0-95%, no condensation
Cooling	Natural convection
Altitude (m)	≤4000
Protection degree	IP54
Communication	RS485

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ACCESSORIES | SMART METER



Features

01 Supports CT reverse detection and adaptive phase sequence

02 Features two CT terminals for flexible application in AC coupled systems

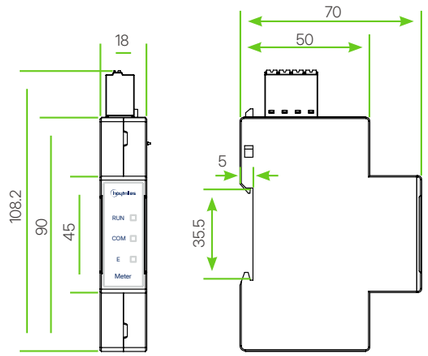
03 Uses CTs with RJ45 plugs to simplify the installation process

04 Compatible with 120 A/40 mA CT

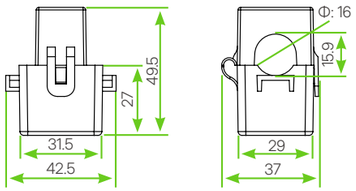
Technical Specifications

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

Unit: mm



Electric Energy Meter



CT-120 A/40 mA

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COMMUNICATION | DTS-G3

WL | WiFi



Features

01 Integrated to use, simply plug and play

02 IP66 protection

03 Stable and reliable data transmission

04 Intelligent monitoring management via S-Miles Cloud

Technical Specifications

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

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

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

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

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S-Miles Cloud

· Module level monitoring

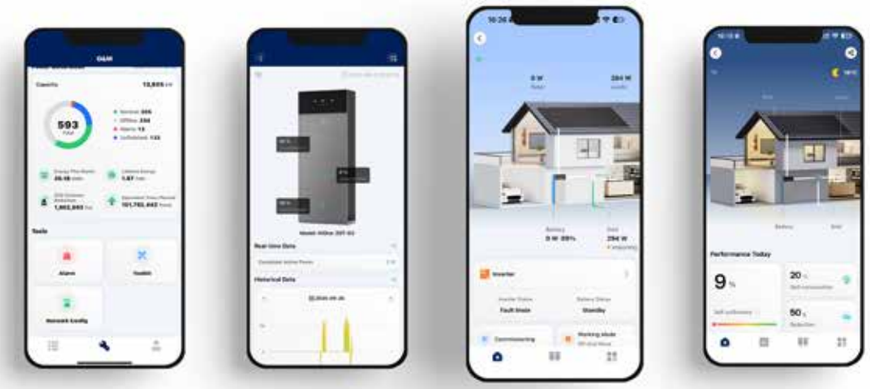
· Individual MPPT

· Easy to operation and maintain the system

Available:

- [x] Webpage
- [x] APP- Android / IOS





RESIDENTIAL SCENARIO

Solar-Storage-EV Solution

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

What Hoymiles Offers



HYBRID INVERTER



AC-COUPLED INVERTER



HIGH VOLTAGE BATTERY



LOW VOLTAGE BATTERY



EV CHARGER



SMART METER



DATA TRANSFER STICK



MONITORING PLATFORM

SOLUTION HIGHLIGHTS

Flexible Retrofit

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

Uninterrupted Power

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

Smart Management

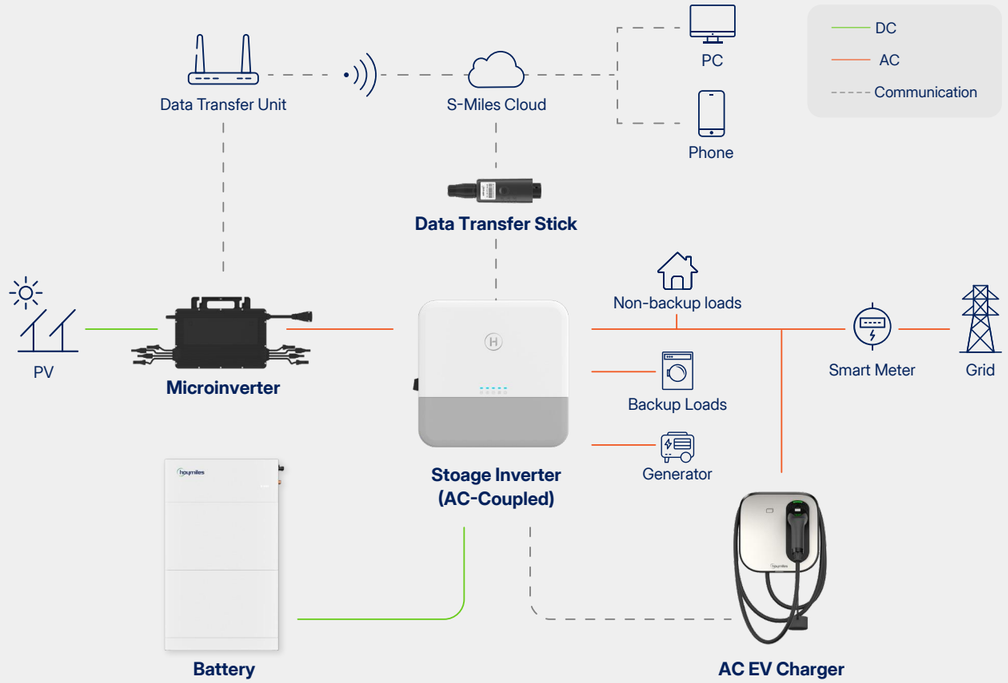
Intelligent EMS integrates fault alerts, smart load control, and diesel generator coordination.

Performs in Any Scenario

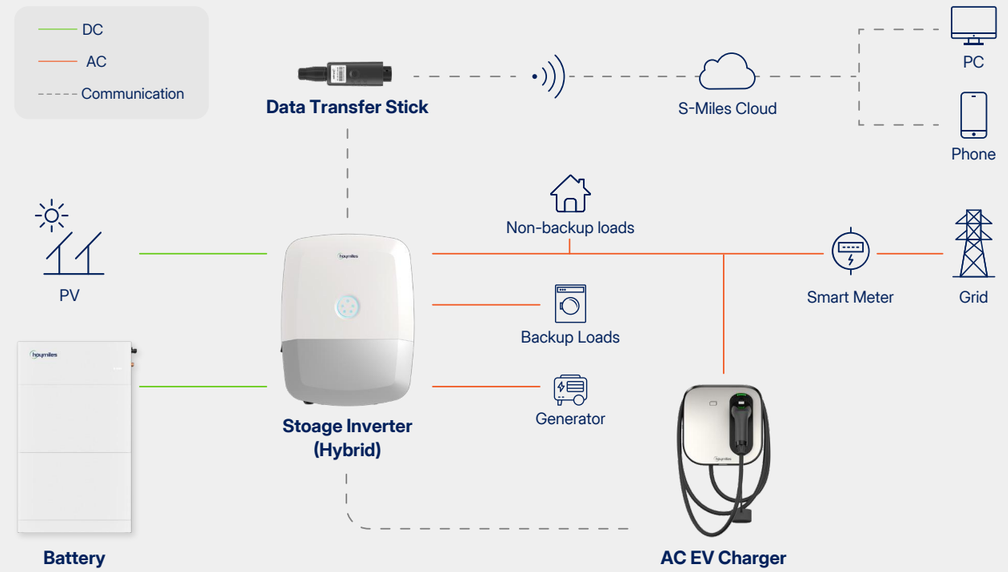
16A MPPT supports mainstream modules, maximizing yield in complex setups.



AC-coupled Solution



Hybrid Solution



STORAGE INVERTER | HIS SERIES

The HIS-(3-6)L-G3 series is a high-performance single-phase hybrid inverter with excellent reliability, including power classes ranging from 3 kW to 6 kW. The intelligent EMS function supports self-consumption mode, economy mode, backup mode, peak shaving mode, and time of use mode for multi-scenario applications. Monitoring management through S-Miles Cloud allows users to remotely diagnose and track system performance over time, maximizing the total solar power production and battery utilization.

3.0-6.0kW | Single Phase | Low Voltage | Hybrid



Features

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

02 Double MPPT tracker, up to 18 A MPPT current

03 UPS-level 0 ms switching time

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

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

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

Technical Specifications

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

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STORAGE INVERTER | HYS SERIES

The HYS-LV Series is a high-performance single-phase hybrid inverter with excellent reliability, including power classes ranging from 3.0 kW to 6.0 kW. The intelligent EMS function supports self-consumption mode, economy mode, and backup mode for multi-scenario applications. Monitoring management through S-Miles Cloud allows users to remotely diagnose and track system's performance over time, maximizing the total solar power production and battery utilization.

3.0-6.0kW | Single Phase | Low Voltage | Hybrid



Features

01 Intelligent export limitation

02 Double MPPT tracker, up to 14 A MPPT current

03 Compatible with multiple batteries, providing users with more choices

04 UPS level switching time <10 ms

05 DC/AC ratio up to 150%

06 Ultralight for easy installation and space-saving

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

08 Max. 10 parallel inverters

Technical Specifications

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

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

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STORAGE INVERTER | HYS SERIES

The HYS-LV-EUG2 Series is a new generation single-phase hybrid inverter with excellent reliability, including power classes ranging from 8.0 kW to 12.0 kW. The intelligent EMS function supports self-consumption mode, economy mode, and backup mode for multi-scenario applications. Monitoring management through Hoymiles Cloud allows users to remotely diagnose and track system's performance over time, maximizing the total solar power production and battery utilization.

3.8-11.5kW | Single Phase | Low Voltage | Hybrid



Features

01 Intelligent export limitation

02 Double MPPT tracker, up to 32 A MPPT current

03 Compatible with multiple batteries, providing users with more choices

04 Seamless backup power for whole home or critical loads

05 DC/AC ratio up to 150%

06 Ultralight for easy installation and space-saving

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

08 Remote monitoring through S-Miles Cloud

Technical Specifications

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

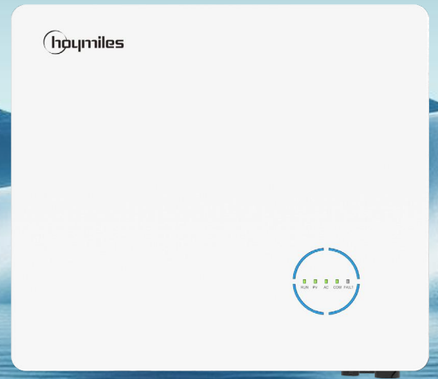
(1) The DTS-4G solution will be coming soon.

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STORAGE INVERTER | HAS SERIES

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

3.0-5.0kW | Single Phase | Low Voltage | AC-Coupled



Features

01 Intelligent export limitation

02 Compatible with multiple batteries, providing users with more choices

03 UPS level switching time <10 ms

04 Ultralight for easy installation and space-saving

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

06 Max. 10 parallel inverters

Technical Specifications

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

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

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STORAGE INVERTER | HIT SERIES

The HIT-(5-20)L-G3 series is a high-performance three-phase hybrid inverter with excellent reliability, including power classes ranging from 5 kW to 20 kW. The intelligent EMS function supports self-consumption mode, economy mode, backup mode, peak shaving mode, and time of use mode for multi-scenario applications. Monitoring management through S-Miles Cloud allows users to remotely diagnose and track the individual system performance over time, offering superior energy production.

5.0-20.0kW | Three Phase | Low Voltage | Hybrid



Features

01 4 MPPTs with 20 A input; DC/AC oversizing up to 200%

02 100% unbalanced output; max. output of each phase up to 50% rated power

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

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

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

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

Technical Specifications

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

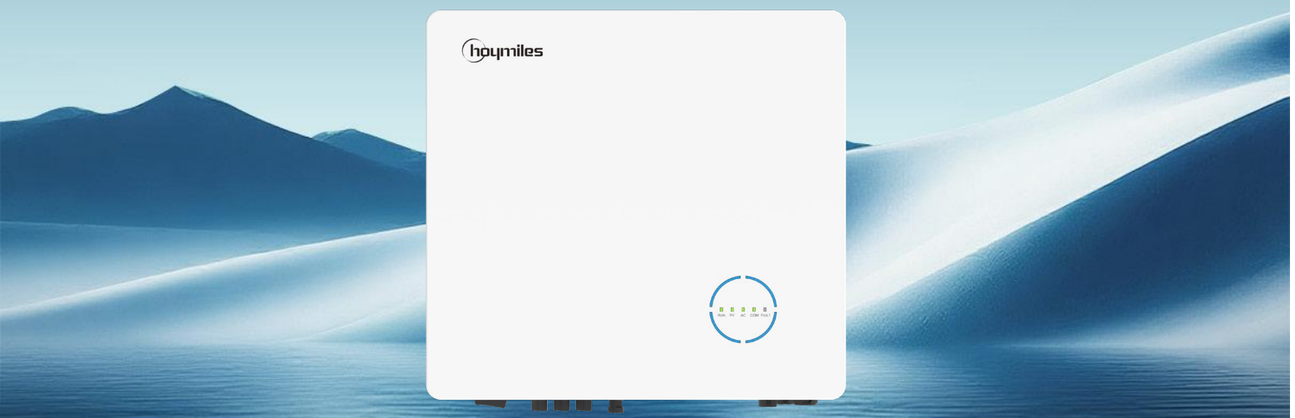
(1) Can be achieved only if PV and battery power are sufficient.
(2) Excluding Connectors and Brackets.
(3) The DTS-4G solution will be coming soon.

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STORAGE INVERTER | HYT SERIES

The HYT-HV Series is a high-performance three-phase hybrid inverter with excellent reliability, including power classes ranging from 5.0 kW to 12.0 kW. The intelligent EMS function supports self-consumption mode, economy mode, and backup mode for multi-scenario applications. Monitoring management through S-Miles Cloud allows users to remotely diagnose and track the individual system's performance over time, offering superior energy production.

5.0-12.0kW | Three Phase | High Voltage | Hybrid



Features

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

02 Double MPPT tracker, up to 14 A MPPT current

03 Compatible with multiple batteries, providing users with more choices

04 UPS level switching time <10 ms

05 DC/AC ratio up to 150%

06 Ultralight for easy installation and space-saving

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

08 Max. 10 parallel inverters

Technical Specifications

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

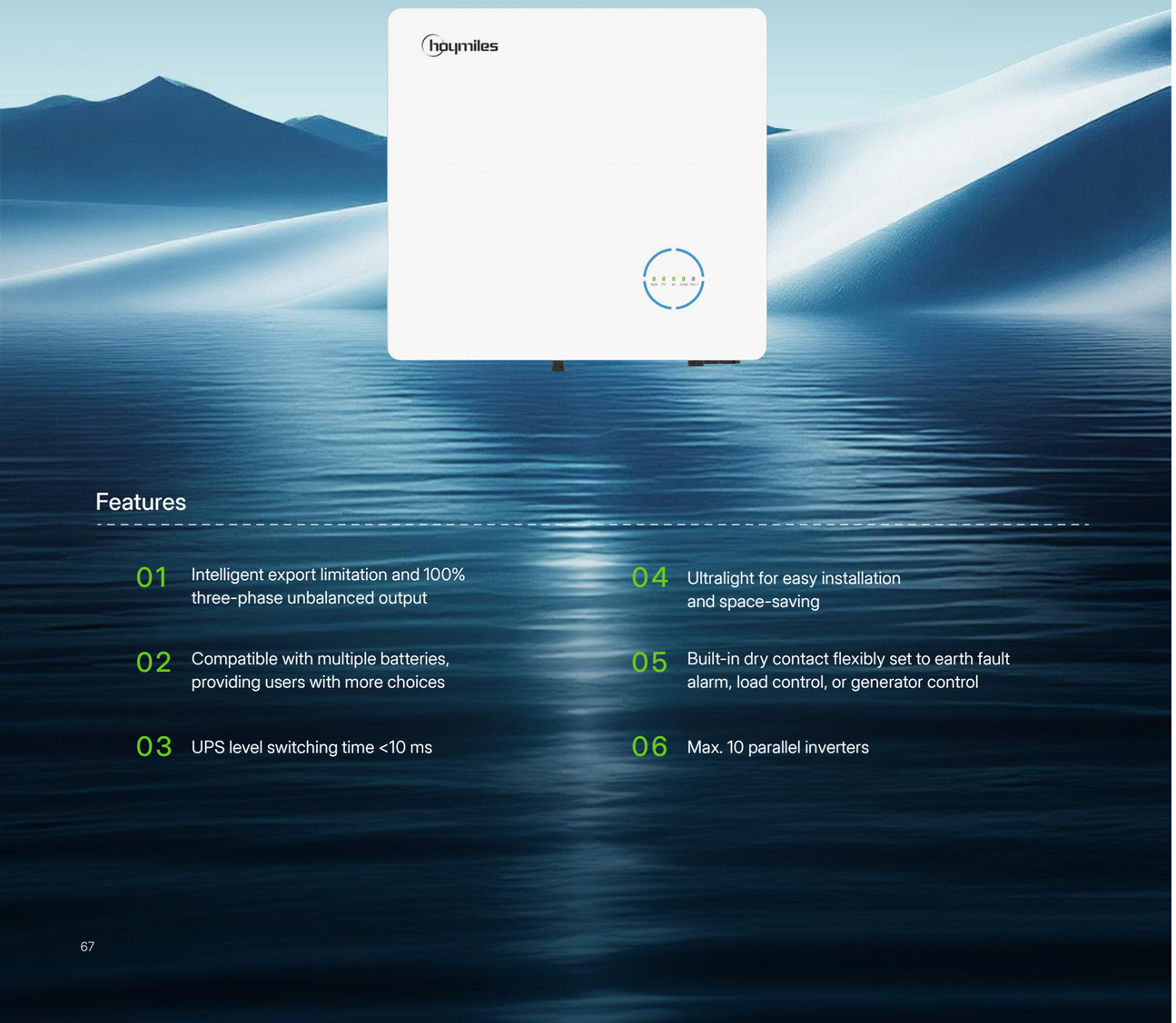
(1) Max. output apparent power 10000 VA for Belgium.
(2) The DTS-4G solution will be coming soon.

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STORAGE INVERTER | HAT SERIES

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

5.0-10.0kW | Three Phase | High Voltage | AC-Coupled



Features

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

02 Compatible with multiple batteries, providing users with more choices

03 UPS level switching time <10 ms

04 Ultralight for easy installation and space-saving

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

06 Max. 10 parallel inverters

Technical Specifications

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

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

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BATTERY | LB-(5-20)S-G1

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

5.12-20.48kWh | Stacked | IP65



Features

01 LFP with improved safety design

02 Suitable for indoor/outdoor installation with IP65 design

03 Quick connector design saves installation time

04 Stackable design without wiring

05 Flexible capacity options from 5.12 kWh to 20.48 kWh

06 Module level fire protection

Technical Specifications

Model	LB-5S-G1	LB-10S-G1	LB-15S-G1	LB-20S-G1
System Data				
Battery type	$LiFePO_4$			
Rated capacity (Ah)	100	200	300	400
Number of modules	1	2	3	4
Total energy (kWh)	5.12	10.24	15.36	20.48
Rated voltage (V)	51.2			
Voltage range (V)	44.8-57.6			
Rated charging/discharging current	0.5C			
Max. continuous charging/discharging current (A)	50	100	150	150
Max. charge/discharge power (kW)	2.56	5.12	7.68	7.68
Communication	CAN, RS485			
Recommended depth of discharge (DOD)	90%			
Protection				
Overvoltage and undervoltage protection	Integrated			
Overcurrent protection	Integrated			
Overtemperature and undertemperature protection	Integrated			
DC breaker	Integrated			
General				
Dimensions (W × H × D [mm])	665 × 503 × 200	665 × 770.7 × 200	665 × 1038.4 × 200	665 × 1306.1 × 200
Weight (kg)	61.5	109.5	157.5	205.5
Installation environment	Indoor/Outdoor			
Charging temperature (°C)	0 to +50			
Discharging temperature (°C)	-10 to +50			
Protection degree	IP65			
Cooling	Natural convection			
Altitude (m)	≤2000			
Cycle life (25°C, 0.5C)	6000 Cycles, @90% DOD, 70% EOL			
Certification	IEC 62619, UN 38.3, CE-EMC			
Warranty[1]	5-10 Years			

*Parallel connection between battery towers is not supported.

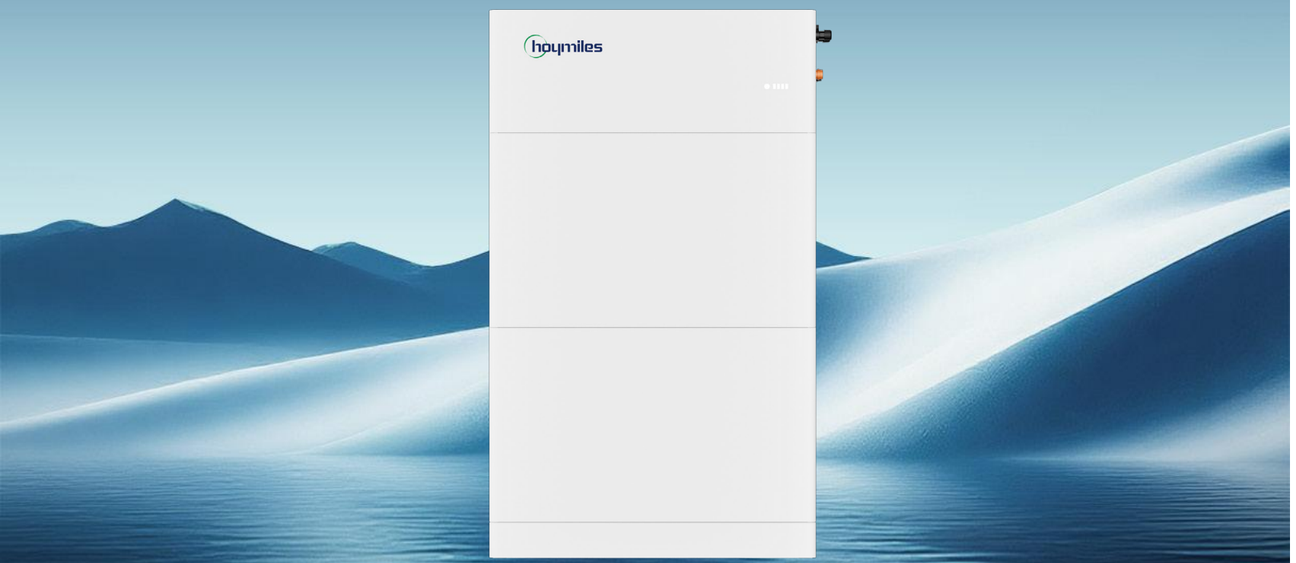
(1) Please refer to Hoymiles Warranty Terms & Conditions for more details.

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BATTERY | LB-(5-20)S-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.

5.12-20.48kWh | Stacked | IP66



Features

01 LFP with improved safety design

02 Suitable for indoor/outdoor installation with IP66 design

03 Quick connector design saves installation time

04 Self-heating technology improves battery performance

05 Flexible capacity options from 5.12 kWh to 102.4 kWh

06 Module level fire protection

Technical Specifications

Model	LB-5S-G2	LB-10S-G2	LB-15S-G2	LB-20S-G2
System Data				
Battery type	$LiFePO_4$			
Rated capacity (Ah)	100	200	300	400
Number of modules	1	2	3	4
Total energy (kWh)	5.12	10.24	15.36	20.48
Rated voltage (V)	51.2			
Voltage range (V)	44.8-58.4			
Rated charging/discharging current	0.5C			
Max. continuous charging/discharging current (A)	50	100	150	200
Max. charge/discharge power (kW)	2.56	5.12	7.68	10.24
Peak charge/discharge power (kW)	3.84 (10s)	7.68 (10s)	11.52 (10s)	15.36 (10s)
Communication	CAN, RS485			
Recommended depth of discharge (DOD)	90%			
Max. scalability	5			
Protection				
Overvoltage and undervoltage protection	Integrated			
Overcurrent protection	Integrated			
Overtemperature and undertemperature protection	Integrated			
DC breaker	Integrated			
General				
System dimensions (including base) (W × H × D [mm])(1)	640 × 690 × 145	640 × 1070 × 145	640 × 1450 × 145	640 × 1830 × 145
System weight (including base) (kg)(1)	60.5	107	153.5	200
Control box dimensions (W × H × D [mm])	640 × 240 × 145			
Control box weight (kg)	11			
Single PACK dimensions (W × H × D [mm])	640 × 380 × 145			
Single PACK weight (kg)	46.5			
Installation environment	Indoor/Outdoor			
Charging temperature (°C)	0 to +50			
Discharging temperature (°C)	-20 to +50			
Protection degree	IP66			
Cooling	Natural convection			
Altitude (m)	≤4000			
Cycle life (25°C, 0.5C)	6000 Cycles, @90% DOD, 70% EOL			
Certification	IEC 62619, UN 38.3, CE-EMC			
Warranty(2)	5-10 Years			

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

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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.

5.12kW | Detached | IP20



Features

01 LFP with improved safety design

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

03 Quick connector design for easy installation

04 Support wall mounting and floor standing installation

05 Flexible capacity options from 5.12 kWh to 81.92 kWh

06 Intelligent BMS with multiple protection functions

Technical Specifications

Model	LB-5D-G2
System Data	
Battery type	$LiFePO_4$
Rated capacity (Ah)	100
Number of modules	1
Total energy (kWh)	5.12
Rated voltage (V)	51.2
Voltage range (V)	44.8-58.4
Rated charging/discharging current	0.5C
Max. continuous charging/discharging current (A)	50
Max. charge/discharge power (kW)	2.56
Peak charge/discharge power (kW)	3.84 (10s)
Communication	CAN, RS485
Recommended depth of discharge (DOD)	90%
Max. parallel	16
Protection	
Overvoltage and undervoltage protection	Integrated
Overcurrent protection	Integrated
Overtemperature and undertemperature protection	Integrated
General	
Dimensions (W × H × D [mm])(1)	640 × 380 × 145
Weight (kg)(1)	45
Installation environment	Indoor
Mounting	Wall mounting/Floor standing
Charging temperature (°C)	0 to +50
Discharging temperature (°C)	-20 to +50
Protection degree	IP20
Cooling	Natural convection
Altitude (m)	≤2000
Cycle life (25°C, 0.5C)	6000 Cycles, @90% DOD, 70% EOL
Certification	IEC 62619, UN 38.3, CE-EMC
Warranty(2)	5-10 Years

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

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BATTERY | LB-16D-G2

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

16.08kWh | 314Ah cells | IP20



Features

01 LFP with improved safety design

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

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

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

05 Flexible capacity options from 16.08 kWh to 241 kWh

06 Intelligent BMS with multiple protection functions

Technical Specifications

Model	LB-16D-G2
System Data	
Battery type	$LiFePO_4$
Rated capacity (Ah)	314
Total energy (kWh)	16.08
Rated voltage (V)	51.2
Voltage range (V)	42-57.6
Rated charging/discharging current (A)	62.8/157
Max. continuous charging/discharging current (25°C) (A)	157
Peak charging/discharging current (A)	200 (10s)
Max. charging/discharging power (kW)	8.04
Communication	CAN
Recommended depth of discharge (DOD)	90%
Max. parallel quantity	15
Protection	
Overvoltage and undervoltage protection	Integrated
Overcurrent protection	Integrated
Overtemperature and undertemperature protection	Integrated
Heating[1]	Optional
DC breaker[1]	Optional
General	
Dimensions (W × H × D [mm])[2]	500 × 880 × 240
Weight (kg)[2]	115
Installation Environment	Indoor
Mounting	Floor standing
Charging temperature (°C)	0 to +55
Discharging temperature (°C)	-20 to +55
Protection degree	IP20
Cooling	Natural convection
Altitude (m)	≤2000
Cycle life (25°C)	6000 Cycles
Certification	IEC 62619, UN 38.3, CE-EMC, CB
Warranty	5 Years

(1) The heating function and the DC breaker are available as a combination option; neither can be provided separately.
(2) The actual dimensions and weight may differ. For details, please contact Hoymiles sales.

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BATTERY | LB-10D-USG2

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

10.24kWh | Detached | Type 4x design



Features

01 Support wall-mounted or floor-standing installation

02 Type 4X design is suitable for indoor/outdoor installation

03 A maximum capacity of 102.4 kWh in parallel

04 Quick connector design saves installation time

Technical Specifications

Model	LB-10D-USG2
System Data	
Battery type	$LiFePO_4$
Rated capacity	200 Ah
Total energy	10.24 kWh
Rated voltage	51.2 V
Voltage range	44.8 V-57.6 V
Rated charging current	0.5C, 100 A
Max. charging current	150 A, 10 mins
Rated discharging current	0.5C, 100 A
Max. discharging current	150 A, 10 mins
Rated charging power	5.12 kW
Max. charging/discharging power	7.68 kW/7.68 kW, 10 mins
Peak discharging current	200 A, 15s
Communication	CAN
Recommended depth of discharge (DOD)	90%
Max. parallel quantity	Max. 10 sets in parallel, 102.4 kWh(1)
Protection	
Overvoltage and undervoltage protection	Integrated
Overcurrent protection	Integrated
Overtemperature and undertemperature protection	Integrated
DC breaker	Integrated
General	
Dimensions (W × H × D)	21.85 × 36.54 × 8.27 inch (555 × 928 × 210 mm)
Weight	227 lbs (103 kg)
Charging temperature	32°F to 131°F (0°C to +55°C)
Discharging temperature	-4°F to 131°F (-20°C to +55°C)
Protection degree	Type 4X
Cooling	Natural convection
Altitude	≤6562 ft (2000 m)
Cycle life (77°F/25°C, 0.5C)	≥6000 Cycles
Certification	UN 38.3, CEC, UL 1973, UL 9540A, UL 9540
Warranty	10 Years

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

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BATTERY | HB-(10-23)S-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.

11.52-23.04kWh | Stacked | IP65



Features

01 LFP with improved safety design

02 Suitable for indoor/outdoor installation with IP65 design

03 Quick connector design saves installation time

04 Stackable design without wiring

05 Flexible capacity options from 11.52 kWh to 23.04 kWh

06 Module level fire protection

Technical Specifications

Model	HB-10S-G2	HB-15S-G2	HB-19S-G2	HB-23S-G2
System Data				
Battery type	$LiFePO_4$			
Rated capacity (Ah)	50			
Number of modules	3	4	5	6
Total energy (kWh)	11.52	15.36	19.2	23.04
Rated voltage (V)	230.4	307.2	384	460.8
Voltage range (V)	201.6-259.2	268.8-345.6	336-432	403.2-518.4
Rated charging/discharging current	0.5C			
Max. continuous charging/discharging current (A)	30			
Max. charge/discharge power (kW)	5.76	7.68	9.6	11.52
Peak charge/discharge power (kW)	11.52 (5s)	15.36 (5s)	19.2 (5s)	23.04 (5s)
Communication	CAN, RS485			
Recommended depth of discharge (DOD)	90%			
Protection				
Overvoltage and undervoltage protection	Integrated			
Overcurrent protection	Integrated			
Overtemperature and undertemperature protection	Integrated			
DC breaker	Integrated			
General				
Dimensions (W × H × D [mm])	635 × 565 × 335	635 × 710 × 335	635 × 855 × 335	635 × 1000 × 335
Weight (kg)	132	172	212	252
Installation environment	Indoor/Outdoor			
Charging temperature (°C)	0 to +45			
Discharging temperature (°C)	-10 to +45			
Protection degree	IP65			
Cooling	Natural convection			
Altitude (m)	≤2000			
Cycle life (25°C, 0.5C)	6000 Cycles, @90% DOD, @70% EOL			
Certification	IEC 62619, UN 38.3, CE-EMC			
Warranty[1]	5-10 Years			

*Parallel connection between battery towers is not supported.

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

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EV CHARGER | VAS/VAT

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.

7-22kW | Single phase | Three phase



Features

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

02 Support multiple charging modes, including green power mode

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

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

05 Excellent industrial design brings a pleasant user experience

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

Technical Specifications

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

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ACCESSORIES | SMART METER METER-G3

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



Features

01 Supports CT reverse detection and adaptive phase sequence

02 Features two CT terminals for flexible application in AC coupled systems

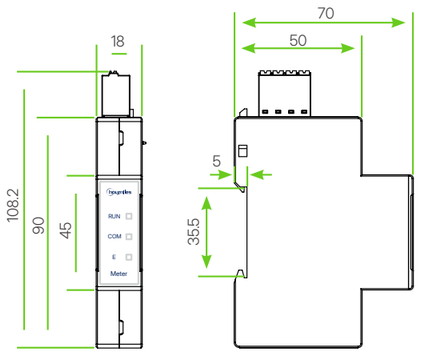
03 Uses CTs with RJ45 plugs to simplify the installation process

04 Compatible with 120 A/40 mA CT

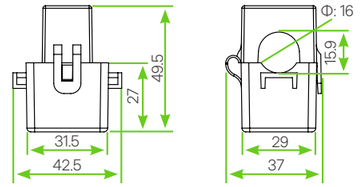
Technical Specifications

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

Unit: mm



Electric Energy Meter



CT-120 A/40 mA

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COMMUNICATION | DTS-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.

Ethernet | 4G | WiFi | IP65



Features

01 Integrated to use, simply plug and play

02 IP65 protection

03 Stable and reliable data transmission

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

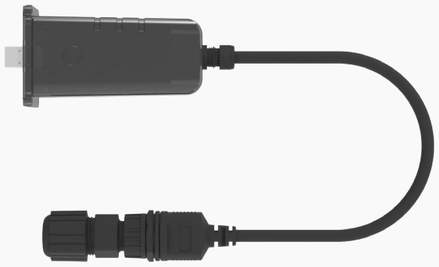
Technical Specifications



Model	DTS-Wi-Fi-G1
Communication	
Max. Inverter Supported	10
Sample Rate	5 minutes
Indicator	LED
Connection Interface	USB
Wireless Standa rd	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 Deg ree	IP65
Installation Method	Insert + Sc rew
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

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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 Standa rd	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 Deg ree	IP65
Installation Method	Insert + Sc rew
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 & F requency 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 Deg ree	IP65
Installation Method	Insert + Sc rew
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.

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COMMUNICATION | DTS-G3

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

WL | 4G | WiFi | IP66



Features

01 Integrated to use, simply plug and play

02 IP66 protection

03 Stable and reliable data transmission

04 Intelligent monitoring management via S-Miles Cloud

Technical Specifications



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

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

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Technical Specifications



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

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

Technical Specifications



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

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

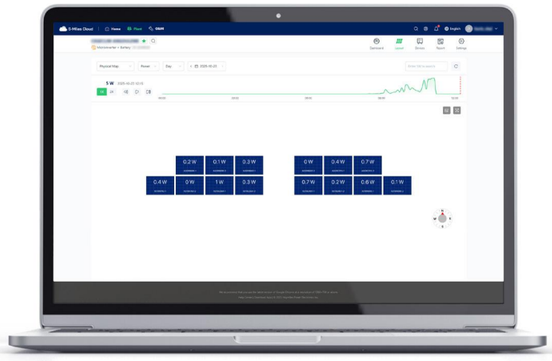
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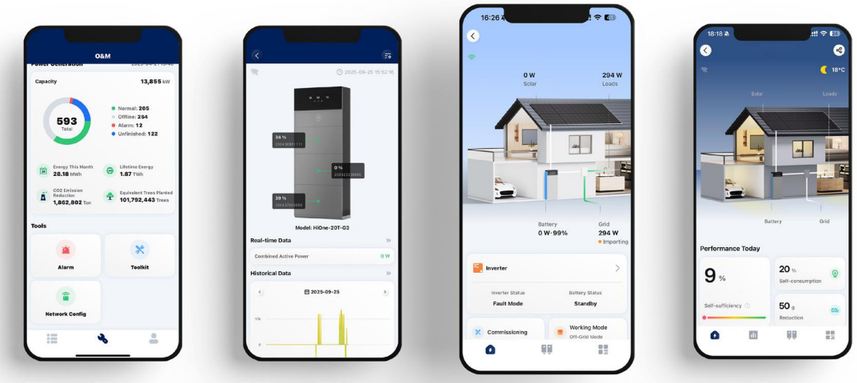
S-Miles Cloud

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

Available:

- ☑ Webpage
- ☑ APP- Android / IOS







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