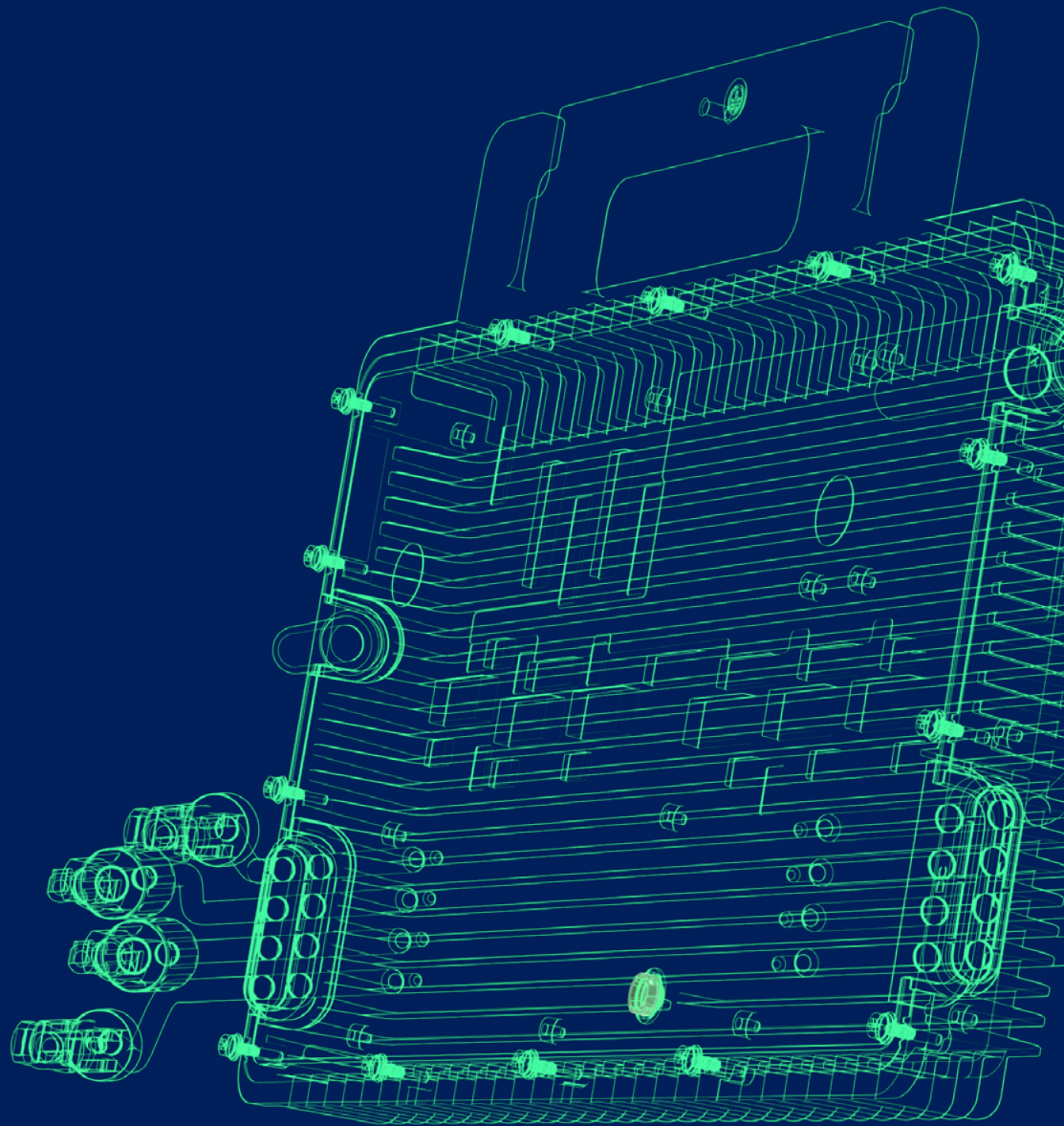




PRODUCT BROCHURE 2023

FOR **NORTH AMERICA**



Open Energy For All

Bringing smart solar to the entire world with rugged technology

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

Hoymiles is a global MLPE (Module Level Power Electronics) solution provider, specializing in module-level inverters and storage systems. With a vision of a clean, sustainable future, we strive to lead the smart energy industry through our rugged technology and reliable products.

With our driven engineer team, 1200+ global experts and distribution & service network spanning North America, South America, Europe, Asia, Africa and Oceania, Hoymiles has empowered homeowners and professionals in more than 120 countries and regions to join the journey to true open energy.

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

Product Portfolio

Microinverter

Single-phase | HM Series

- 06 · HM-300NT / HM-350NT / HM-400NT
- 08 · HM-600NT / HM-700NT / HM-800NT
- 10 · HM-1200NT / HM-1500NT

Data Transfer Unit

- 12 · DTU-Pro

Single-phase | HMS Series

- 14 · HMS-350 / HMS-400 / HMS-450 / HMS-500-1T-NA
- 16 · HMS-700 / HMS-800 / HMS-900 / HMS-1000-2T-NA
- 18 · HMS-1600 / HMS-1800 / HMS-2000-4T-NA

Accessories

- 20 · HM/HMS Cable Accessories

Three-phase | HMT Series

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

Accessories

- 26 · HMT Cable Accessories

Data Transfer Unit

- 28 · DTU-Pro-S

Energy Storage Inverter

Hybrid Inverter

- 30 · HYS-3.8LV / HYS-4.8LV / HYS-6.0LV / HYS-7.6LV / HYS-9.6LV / HYS-11.5LV-USG1

Data Transfer Stick

- 32 · DTS-G1

Rapid Shutdown

- 36 · HRSD-1C
- 38 · HRSD-2C

Transmitter

- 40 · HT10
- 42 · HT10-Kit

Our Products

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

Increased Return on Investment

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

Smarter

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

More Efficient

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

Installer Friendly

- Full product range: 1-1 to 4-1, 300W-2000W
- High cost effective (LCOE)
- Plug-and-play, easy installation
- Extensive warranty

Safer

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

More Reliable

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





Single-phase
Microinverter

HM-300NT
HM-350NT
HM-400NT

Hoymiles 1-in-1 microinverter, which can be connected to one panel and used in various applications, is one of the most flexible solar solutions. With a maximum DC voltage of 60 V, Hoymiles microinverter is a PV Rapid Shutdown Equipment and conforms with NEC-2017 and NEC-2020 Article 690.12 and CEC-2021 Sec 64-218.

All of the three models listed are equipped with reactive power control and can meet the requirements of IEEE 1547, UL 1741 and CA Rule21.

- ✓ External antenna for stronger communication with DTU
- ✓ High reliability: NEMA 6 (IP67) enclosure, 6000 V surge protection

- ✓ Easy installation, just plug and play
- ✓ With Reactive Power Control, compliant with CA Rule 21
- ✓ Compliant with U.S. NEC-2017&NEC-2020 690.12 rapid shutdown

Technical Specifications

Model	HM-300NT		HM-350NT		HM-400NT	
Input Data (DC)						
Commonly used module power (W)	240 to 405+		280 to 470+		320 to 540+	
Maximum input voltage (V)			60			
MPPT voltage range (V)			16-60			
Start-up voltage (V)			22			
Maximum input current (A)	11.5		11.5		12.5	
Maximum input short circuit current (A)			1 × 15			
Number of MPPT			1			
Number of inputs per MPPT			1			
Output Data (AC)						
Peak output power (VA)	300		350		400	
Maximum continuous output power (VA)	295		349		382	
Maximum continuous output current (A)	1.23	1.42	1.45	1.68	1.59	1.84
Nominal output voltage/range (V) ¹	240/211-264	208/183-228	240/211-264	208/183-228	240/211-264	208/183-228
Nominal frequency/range (Hz) ¹	60/55-65					
Power factor (adjustable)	>0.99 default 0.8 leading ... 0.8 lagging					
Total harmonic distortion	<3%					
Maximum units per 10AWG branch ²	19	16	16	14	15	13
Maximum units per 12AWG branch ²	13	11	11	9	10	8
Efficiency						
CEC peak efficiency			96.7%			
CEC weighted efficiency			96.5%			
Nominal MPPT efficiency			99.8%			
Nighttime power consumption (mW)			<50			
Mechanical Data						
Ambient temperature range (°C)			-40 to +65			
Dimensions (W × H × D mm)			182 × 164 × 29.5			
Weight (kg)			1.75			
Enclosure rating			Outdoor-NEMA 6 (IP67)			
Cooling			Natural convection – No fans			
Features						
Communication			2.4GHz Proprietary RF (Nordic)			
Type of isolation			Galvanically Isolated HF Transformer			
Monitoring			S-Miles Cloud ³			
Warranty			Up to 25 years			
Compliance			UL 1741, IEEE 1547, UL 1741 SA (240 Vac), CA Rule 21 (240 Vac), CSA C22.2 No. 107.1-16, FCC Part 15B, FCC Part 15C			
PV Rapid Shutdown			Conforms with NEC-2017 and NEC-2020 Article 690.12 and CEC-2021 Sec 64-218 Rapid Shutdown of PV Systems			

*1 Nominal voltage/frequency range can vary depending on local requirements.
*2 Refer to local requirements for exact number of microinverters per branch.
*3 Hoymiles Monitoring System.



Single-phase
Microinverter

HM-600NT
HM-700NT
HM-800NT

Hoymiles 2-in-1 microinverter can connect up to 2 panels at once and maximize the PV production of your installation. With a maximum DC voltage of 60 V, Hoymiles microinverter is a PV Rapid Shutdown Equipment and conforms with NEC-2017 and NEC-2020 Article 690.12 and CEC-2021 Sec 64-218.

All of the three models listed are equipped with reactive power control and can meet the requirements of IEEE 1547, UL 1741 and CA Rule21.

- ✓ External antenna for stronger communication with DTU
- ✓ High reliability: NEMA 6 (IP67) enclosure, 6000 V surge protection

- ✓ Easy installation, just plug and play
- ✓ With Reactive Power Control, compliant with CA Rule 21
- ✓ Compliant with U.S. NEC-2017&NEC-2020 690.12 rapid shutdown

Technical Specifications

Model	HM-600NT		HM-700NT		HM-800NT	
Input Data (DC)						
Commonly used module power (W)	240 to 405+		280 to 470+		320 to 540+	
Maximum input voltage (V)			60			
MPPT voltage range (V)			16-60			
Start-up voltage (V)			22			
Maximum input current (A)	2 × 11.5		2 × 11.5		2 × 12.5	
Maximum input short circuit current (A)			2 × 15			
Number of MPPTs			2			
Number of inputs per MPPT			1			
Output Data (AC)						
Peak output power (VA)	600		700		800	
Maximum continuous output power (VA)	590		696		766	
Maximum continuous output current (A)	2.46	2.84	2.90	3.35	3.19	3.68
Nominal output voltage/range (V) ¹	240/211-264	208/183-228	240/211-264	208/183-228	240/211-264	208/183-228
Nominal frequency/range (Hz) ¹	60/55-65					
Power factor (adjustable)	> 0.99 default 0.8 leading ... 0.8 lagging					
Total harmonic distortion	< 3%					
Maximum units per 10AWG branch ²	9	8	8	7	7	6
Maximum units per 12AWG branch ²	6	5	5	4	5	4
Efficiency						
CEC peak efficiency			96.7%			
CEC weighted efficiency			96.5%			
Nominal MPPT efficiency			99.8%			
Nighttime power consumption (mW)			<50			
Mechanical Data						
Ambient temperature range (°C)			-40 to +65			
Dimensions (W × H × D mm)			250 × 170 × 28			
Weight (kg)			2.6			
Enclosure rating			Outdoor-NEMA 6 (IP67)			
Cooling			Natural convection – No fans			
Features						
Communication			2.4GHz Proprietary RF (Nordic)			
Type of isolation			Galvanically Isolated HF Transformer			
Monitoring			S-Miles Cloud ³			
Warranty			Up to 25 years			
Compliance			UL 1741, IEEE 1547, UL 1741 SA (240 Vac), CA Rule 21 (240 Vac), CSA C22.2 No. 107.1-16, FCC Part 15B, FCC Part 15C			
PV Rapid Shutdown			Conforms with NEC-2017 and NEC-2020 Article 690.12 and CEC-2021 Sec 64-218 Rapid Shutdown of PV Systems			

*1 Nominal voltage/frequency range can vary depending on local requirements.
*2 Refer to local requirements for exact number of microinverters per branch.
*3 Hoymiles Monitoring System.



Single-phase Microinverter

HM-1200NT HM-1500NT

Hoymiles 4-in-1 microinverter is one of the most cost-effective module-level solar solutions, as it can support up to 4 panels at once and maximize the PV production of your installation. With a maximum DC voltage of 60 volts, Hoymiles microinverter is a PV Rapid Shutdown Equipment and conforms with NEC-2017 and NEC-2020 Article 690.12 and CEC-2021 Sec 64-218.

Both models listed are equipped with reactive power control and can meet the requirements of IEEE 1547, UL 1741 and CA Rule21.

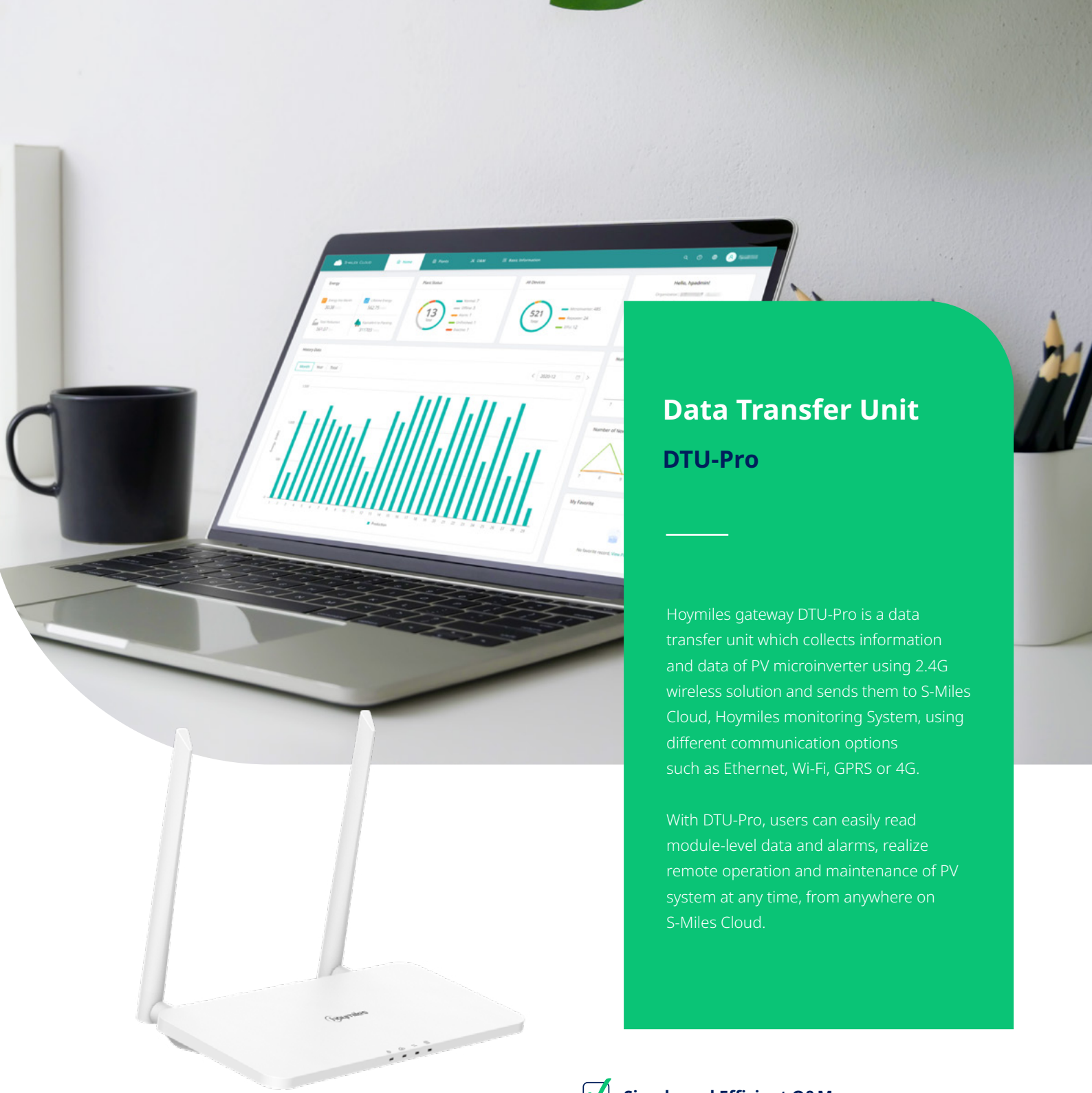
- ✓ External antenna for stronger communication with DTU
- ✓ High reliability: NEMA 6 (IP67) enclosure, 6000 V surge protection

- ✓ Easy installation, just plug and play
- ✓ With Reactive Power Control, compliant with CA Rule 21
- ✓ Compliant with U.S. NEC-2017&NEC-2020 690.12 rapid shutdown

Technical Specifications

Model	HM-1200NT		HM-1500NT	
Input Data (DC)				
Commonly used module power (W)	240 to 405+		300 to 505+	
Maximum input voltage (V)			60	
MPPT voltage range (V)			16-60	
Start-up voltage (V)			22	
Maximum input current (A)	4 × 11.5		4 × 11.5	
Maximum input short circuit current (A)			4 × 15	
Number of MPPTs			2	
Number of inputs per MPPT			2	
Output Data (AC)				
Peak output power (VA)	1260	1200	1500	1350
Maximum continuous output power (VA)	1200	1109	1438	1246
Maximum continuous output current (A)	5	5.33	5.99	5.99
Nominal output voltage/range (V) ¹	240/211-264	208/183-228	240/211-264	208/183-228
Nominal frequency/range (Hz) ¹	60/55-65			
Power factor (adjustable)	> 0.99 default 0.8 leading ... 0.8 lagging			
Total harmonic distortion	< 3%			
Maximum units per 10AWG branch ²	4	4	4	4
Efficiency				
CEC peak efficiency			96.7%	
CEC weighted efficiency			96.5%	
Nominal MPPT efficiency			99.8%	
Nighttime power consumption(mW)			<50	
Mechanical Data				
Ambient temperature range (°C)	-40 to +65			
Dimensions (W × H × D mm)	280 × 176 × 33			
Weight (kg)	3.35			
Enclosure rating	Outdoor-NEMA 6 (IP67)			
Cooling	Natural convection – No fans			
Features				
Communication	2.4GHz Proprietary RF (Nordic)			
Type of isolation	Galvanically Isolated HF Transformer			
Monitoring	S-Miles Cloud ³			
Warranty	Up to 25 years			
Compliance	UL 1741, IEEE 1547, UL 1741 SA (240 Vac), CA Rule 21 (240 Vac), CSA C22.2 No. 107.1-16, FCC Part 15B, FCC Part 15C			
PV Rapid Shutdown	Conforms with NEC-2017 and NEC-2020 Article 690.12 and CEC-2021 Sec 64-218 Rapid Shutdown of PV Systems			

*1 Nominal voltage/frequency range can vary depending on local requirements.
*2 Refer to local requirements for exact number of microinverters per branch.
*3 Hoymiles Monitoring System.



Data Transfer Unit DTU-Pro

Hoymiles gateway DTU-Pro is a data transfer unit which collects information and data of PV microinverter using 2.4G wireless solution and sends them to S-Miles Cloud, Hoymiles monitoring System, using different communication options such as Ethernet, Wi-Fi, GPRS or 4G.

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

✓ Reliable and Flexible

- Stable communication with HM, MI series of microinverter
- More communication options with S-Miles Cloud, using Ethernet, Wi-Fi, GPRS or 4G
- Support of RS485, Ethernet to communicate with peripherals

✓ Simple and Efficient O&M

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

✓ Smart

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

Technical Specifications

Model	DTU-Pro (Wi-Fi Version)		DTU-Pro (4G Version)
Communication to Microinverter			
Signal	2.4GHz Proprietary RF (Nordic)		
Maximum distance (open space)	200 m		
Monitoring data limit from solar panels	99 ¹		
Communication to S-Miles Cloud			
Ethernet	RJ45 × 1, 100Mbps		
Wireless ²	Wi-Fi: 802.11b/g/n	4G: TDD-LTE, FDD-LTE 3G: SCDMA 2G: GSM/GPRS	
Sample rate	Per 15 minutes		
Communication to Peripherals			
RS485	COM × 1, 9600bps, Modbus-RTU		
Ethernet	RJ45 × 1, Modbus-TCP		
DRM (For AU/NZ only)	RJ45 × 1, DRM0/5/6/7/8		
Interaction			
LED	LED Indicator × 4 – RUN, Cloud, MI, ALM		
APP	S-Miles Toolkit		
Power Supply (Adapter)			
Type	External adapter		
Adapter input voltage/frequency	100 to 240 V AC / 50 or 60 Hz		
Adapter output voltage/current	5V/2A		
Power consumption	Typ. 1.5W / Max. 3.0W	Typ. 2.5W / Max. 5.0W	
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	HM series, MI series		

*1 This depends on the installation environment. Please refer to 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.



Single-phase
Microinverter

HMS-350-1T-NA
HMS-400-1T-NA
HMS-450-1T-NA
HMS-500-1T-NA

Hoymiles new microinverter HMS-500 series are suitable for high-powered solar panels, which rank among the highest for 1-in-1 microinverters. Each microinverter can be connected to one panel and used in various applications, making it one of the most flexible solar solutions. With a maximum DC voltage of 65 volts, Hoymiles microinverter is a PV Rapid Shutdown Equipment and conforms with NEC-2017 and NEC-2020 Article 690.12 and CEC-2021 Sec 64-218. The new Sub-1G wireless solution enables more stable communication with Hoymiles gateway DTU.

✔ High-powered microinverter for 1-in-1 series with superior performance

✔ With Reactive Power Control, compliant with UL 1741, IEEE 1547, UL 1741 SB, etc.

✔ Safer for rooftop solar stations with PV rapid shutdown compliance

✔ 1-in-1 design enables most flexible applications

Technical Specifications

Model	HMS-350-1T-NA		HMS-400-1T-NA		HMS-450-1T-NA		HMS-500-1T-NA	
Input Data(DC)								
Commonly used module power (W)	280 to 470+		320 to 540+		360 to 600+		400 to 670+	
Maximum input voltage (V)	60		65		65		65	
MPPT voltage range (V)	16-60							
Start-up voltage (V)	22							
Maximum input current (A)	11.5		12.5		13.3		14	
Maximum input short circuit current (A)	16		20		20		20	
Number of MPPTs	1							
Number of Inputs per MPPT	1							
Output Data(AC)								
Peak output power (VA)	350		400		450		500	
Maximum continuous output power (VA)	319		360		410		475	
Maximum continuous output current (A)	1.33	1.53	1.5	1.73	1.71	1.98	1.98	2.28
Nominal output voltage/range (V) ¹	240/211-264	208/183-228	240/211-264	208/183-228	240/211-264	208/183-228	240/211-264	208/183-228
Nominal frequency/range (Hz) ¹	60/55-65							
Power factor (adjustable)	> 0.99 default 0.8 leading ... 0.8 lagging							
Total harmonic distortion	< 3%							
Maximum units per 10 AWG branch ²	18	15	16	13	14	12	12	10
Maximum units per 12 AWG branch ²	12	10	10	9	9	8	8	7
Efficiency								
CEC peak efficiency	96.70%				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])	182 × 164 × 30							
Weight (kg)	1.75							
Enclosure rating	Outdoor-IP67 (NEMA6)							
Cooling	Natural convection (no fans)							
Features								
Communication	Sub-1G							
Type of isolation	Galvanically Isolated HF Transformer							
Monitoring	Hoymiles S-Miles Cloud ³							
Compliance	UL 1741, IEEE 1547, UL 1741 SB, CSA C22.2 No. 107.1-16 FCC 15B, FCC 15C							
PV Rapid Shutdown	Conforms with NEC-2017 and NEC-2020 Article 690.12 and CEC-2021 Sec 64-218 Rapid Shutdown of PV Systems.							

*1 Nominal voltage/frequency range can vary depending on local requirements.
*2 Refer to local requirements for exact number of microinverters per branch.
*3 Hoymiles Monitoring System.



Single-phase
Microinverter

HMS-700-2T-NA
HMS-800-2T-NA
HMS-900-2T-NA
HMS-1000-2T-NA

Hoymiles new microinverter HMS-1000 series are suitable for high-powered solar panels, which 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. With a maximum DC voltage of 65 volts, Hoymiles microinverter is a PV Rapid Shutdown Equipment and conforms with NEC-2017 and NEC-2020 Article 690.12 and CEC-2021 Sec 64-218. The new Sub-1G wireless solution enables more stable communication with Hoymiles gateway DTU.

- ✓

High-powered microinverter for 2-in-1 series with superior performance
- ✓

2-in-1 design enables faster installation
- ✓

With Reactive Power Control, compliant with UL 1741, IEEE 1547, UL 1741 SB, etc.
- ✓

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

Safer for rooftop solar stations with PV rapid shutdown compliance
- ✓

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

Technical Specifications

Model	HMS-700-2T-NA		HMS-800-2T-NA		HMS-900-2T-NA		HMS-1000-2T-NA	
Input Data(DC)								
Commonly used module power (W)	280 to 470+		320 to 540+		360 to 600+		400 to 670+	
Maximum input voltage (V)	60		65		65		65	
MPPT voltage range (V)	16–60							
Start-up voltage (V)	22							
Maximum input current (A)	2 × 13		2 × 14		2 × 15		2 × 16	
Maximum input short circuit current (A)	2 × 20		2 × 25		2 × 25		2 × 25	
Number of MPPTs	2							
Number of Inputs per MPPT	1							
Output Data(AC)								
Peak output power (VA)	700		800		900		1000	
Maximum continuous output power (VA)	638		720		820		958	
Maximum continuous output current (A)	2.66	3.07	3	3.46	3.42	3.94	3.99	4.61
Nominal output voltage/range (V) ¹	240/211–264	208/183–228	240/211–264	208/183–228	240/211–264	208/183–228	240/211–264	208/183–228
Nominal frequency/range (Hz) ¹	60/55–65							
Power factor (adjustable)	> 0.99 default 0.8 leading ... 0.8 lagging							
Total harmonic distortion	< 3%							
Maximum units per 10 AWG branch ²	9	7	8	6	7	6	6	5
Maximum units per 12 AWG branch ²	6	5	5	4	4	4	4	3
Efficiency								
CEC peak efficiency	96.70%				96.50%			
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 × 31							
Weight (kg)	3.1							
Enclosure rating	Outdoor-IP67 (NEMA6)							
Cooling	Natural convection-No fans							
Features								
Communication	Sub-1G							
Type of isolation	Galvanically Isolated HF Transformer							
Monitoring	Hoymiles S-Miles Cloud ³							
Compliance	UL 1741, IEEE 1547, UL 1741 SB (Pending), CSA C22.2 No. 107.1-16 FCC 15B, FCC 15C							
PV Rapid Shutdown	Conforms with NEC-2017 and NEC-2020 Article 690.12 and CEC-2021 Sec 64-218 Rapid Shutdown of PV Systems.							

*1 Nominal voltage/frequency range can vary depending on local requirements.
*2 Refer to local requirements for exact number of microinverters per branch.
*3 Hoymiles Monitoring System.



Single-phase
Microinverter

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

Hoymiles new microinverter HMS-2000 series are suitable for high-powered solar panels, which 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. With a maximum DC voltage of 65 volts, Hoymiles microinverter is a PV Rapid Shutdown Equipment and conforms with NEC-2017 and NEC-2020 Article 690.12 and CEC-2021 Sec 64-218. The new Sub-1G wireless solution enables more stable communication with Hoymiles gateway DTU.

- ✓

High-powered microinverter for 4-in-1 series with superior performance
- ✓

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

Safer for rooftop solar stations with PV rapid shutdown compliance
- ✓

4-in-1 design enables most cost-effective solar solution
- ✓

With Reactive Power Control, compliant with UL 1741, IEEE 1547, UL 1741 SB, etc.
- ✓

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

Technical Specifications

Model	HMS-1600-4T-NA		HMS-1800-4T-NA		HMS-2000-4T-NA	
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)						
Peak output power (VA)	1600		1800		2000	
Maximum continuous output power (VA)	1440		1660		1918	
Maximum continuous output current (A)	6	6.92	6.92	7.98	7.99	9.22
Nominal output voltage/range (V) ¹	240/211–264	208/183–228	240/211–264	208/183–228	240/211–264	208/183–228
Nominal frequency/range (Hz) ¹	60/55–65					
Power factor (adjustable)	> 0.99 default 0.8 leading ... 0.8 lagging					
Total harmonic distortion	< 3%					
Maximum units per 10AWG branch ²	4	3	3	3	3	2
Efficiency						
CEC peak efficiency	96.70%		96.50%		96.50%	
Nominal MPPT efficiency			99.8%			
Night power consumption (mW)			< 50			
Mechanical Data						
Ambient temperature range (°C)			-40 to +65			
Dimensions (W × H × D [mm])			331 × 218 × 36.6			
Weight (kg)			4.7			
Enclosure rating			Outdoor-IP67 (NEMA6)			
Cooling			Natural convection-No fans			
Features						
Communication			Sub-1G			
Type of isolation			Galvanically Isolated HF Transformer			
Monitoring			Hoymiles S-Miles Cloud ³			
Compliance			UL 1741, IEEE 1547, UL 1741 SB, CSA C22.2 No. 107.1-16 FCC 15B, FCC 15C			
PV Rapid Shutdown			Conforms with NEC-2017 and NEC-2020 Article 690.12 and CEC-2021 Sec 64-218 Rapid Shutdown of PV Systems.			

*1 Nominal voltage/frequency range can vary depending on local requirements.
*2 Refer to local requirements for exact number of microinverters per branch.
*3 Hoymiles Monitoring System.

Cable Accessories for Microinverter of HM/HMS Series (Currently Available)



AC Trunk Cable, 12/10 AWG Cable

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



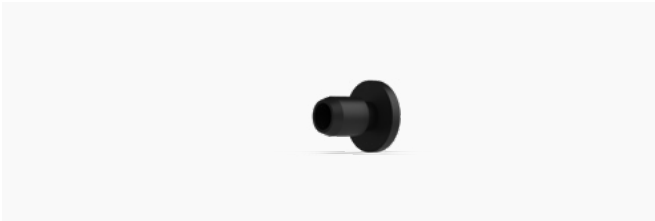
AC Trunk Port Cap

Used to protect vacant AC Trunk Port.



AC Trunk Connector

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



AC Trunk End Cap

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



AC Trunk Port Disconnect Tool

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



AC Trunk Connector Unlock Tool

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



DC Extension Cable

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

Technical Specifications

AC Trunk Cable		
Main Parameters		
Cable type	10 AWG	12 AWG
Rated voltage	600 V	
Cable outer diameter	12.5±0.40 mm	11.1±0.30 mm
Ambient temperature range	-40°C to +90°C	
AC Trunk Connector spacing	4.2 m/2 m	1 m
Number of AC Trunk Connectors per Single AC Trunk Cable	10/20	40
Single AC Trunk Cable length	39.3 m/41 m	46 m
Compliance		
Product standard	UL 44, UL 1277, UL 1581	
RoHS compliant	Yes	

AC Trunk Connector	
Main Parameters	
Pin number	2P+PE
Rated current	32 A (Use 10 AWG/6mm ² copper cable)
Rated voltage	300 V
Contact resistance	≤5 mΩ
Power frequency withstand voltage	1500V AC
Over voltage type	III
Connection Parameter	
Applicable cable specification	12/10 AWG
Applicable cable outer diameter	10 mm to 13 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)	150 × 40 × 110
Protection rating	IP68
Flame resistance degree	UL 94-V0
Compliance	
Product standard	PPP 59015A:2013 ANSI/UL 6703-2017
RoHS compliant	Yes

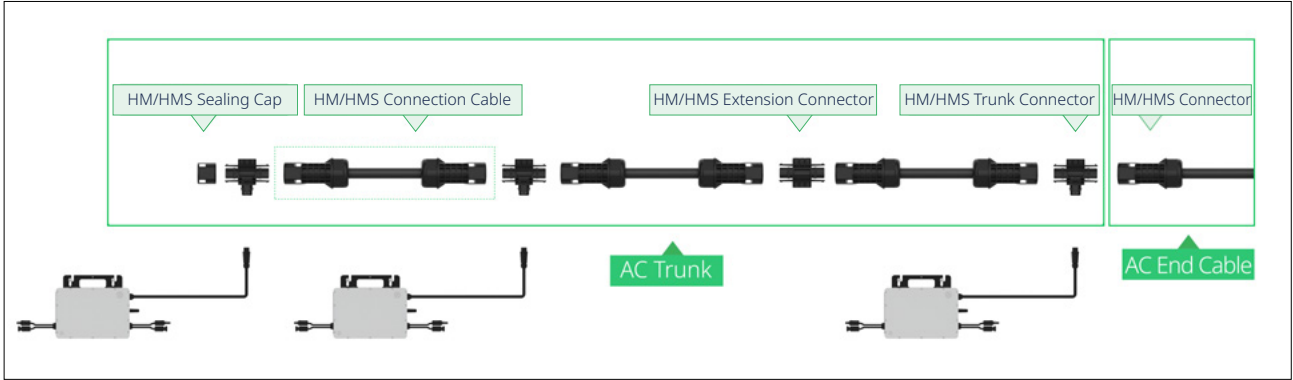
Model		DC Extension Cable	
Cable			
Cable type			PV1-F 1X4
Rated current			20 A
Rated voltage			Max.1800V DC
Cable length			1 m
Ambient temperature range			-40°C to +90°C
Product standard			2 PFG 1169/08.2007
DC Connector			
Manufacturer	Betteri		Staubli
Type	BC03A, BC03B		PV-KBT4/6II-UR
Rated current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

HM/HMS Cable Accessories

Brand-new FLEX Series (Coming Soon)

SIMPLIFY YOUR INSTALLATION WITH EASY & FLEXIBLE & RELIABLE CABLE SYSTEM

The HM/HMS cable system is a revolutionary cabling solution designed for the HM-NT/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 HM/HMS cable system also features highly flexible, allowing users to mix and match HM/HMS Connection Cables of different sizes or lengths to achieve their desired wiring configuration at the lowest cost.



Time-saving & Cost-effective

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



Compatibility

- Work seamlessly with the current HM/HMS series microinverters



Flexibility

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



Reliability

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

HM/HMS Connection Cable

Make a customized AC Trunk by utilizing HM/HMS Trunk Connectors and HM/HMS Extension Connectors.



HM/HMS Trunk Connector

Used to connect the microinverter's AC output to the AC Trunk, as well as to join together multiple HM/HMS Connection Cables to create the AC Trunk.



HM/HMS 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.



HM/HMS Extension Connector

Used to extend your cable runs when the distance between two microinverters exceeds the standard length of an HM/HMS Connection Cable.



HM/HMS Sealing Cap

Used to cover the unused connection port on the HM/HMS Trunk Connector, which is typically located at the beginning of the AC Trunk.



HM/HMS Disconnect Tool

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



Technical Specifications

Connector System Parameter

Pin number	2P + PE
Rated voltage	300 V
Rated current	40 A
Max. supported conductor sizes	10 AWG
Max. supported cable outer diameter	0.65 inch (16.5 mm)
Ambient temperature range	-40°F to 185°F (-40°C to +85°C)
Protection degree	NEMA Type 6P
Flame resistance degree	UL94-V0
Compliance	RoHS
Product standard	UL6703

Cable System Parameter

Cable type	TC-ER
Rated voltage	600 V
Conductor size	12 AWG / 10 AWG
Flame test rating	VTFT
Ambient temperature range	-40°F to 194°F (-40°C to +90°C)
Compliance	ROHS, UV Resistant
Product standard	UL44, UL1277, UL1581

Connector Ordering Options

Connector Model	Number per Box (PCS)	Box Dimensions (inch)
HM/HMS Sealing Cap	TBD	18.9 × 13.9 × 10.4 (480 × 354 × 265 mm)
HM/HMS Trunk Connector	TBD	18.9 × 13.9 × 10.4 (480 × 354 × 265 mm)
HM/HMS Extension Connector	TBD	18.9 × 13.9 × 10.4 (480 × 354 × 265 mm)
HM/HMS Disconnection Tool	TBD	18.9 × 13.9 × 10.4 (480 × 354 × 265 mm)
HM/HMS Connector	TBD	18.9 × 13.9 × 10.4 (480 × 354 × 265 mm)

Connection Cable Model	Conductors Cross Sectional Area	Rated Current	Cable Length Between Connectors ²	Minimum Bending Radius	Box Dimensions
HM/HMS Connection Cable-NA12-110	3 x 12 AWG	20 A	3.6 ft. (1.1 m)	2.36 inch (6 cm)	TBD
HM/HMS Connection Cable-NA12-200	3 x 12 AWG	20 A	6.6 ft. (2.0 m)	2.36 inch (6 cm)	TBD
HM/HMS Connection Cable-NA12-230	3 x 12 AWG	20 A	7.5 ft. (2.3 m)	2.36 inch (6 cm)	TBD
HM/HMS Connection Cable-NA12-300	3 x 12 AWG	20 A	9.8 ft. (3.0 m)	2.36 inch (6 cm)	TBD
HM/HMS Connection Cable-NA12-460	3 x 12 AWG	20 A	15.3 ft. (4.6 m)	2.36 inch (6 cm)	TBD
HM/HMS Connection Cable-NA10-110	3 x 10 AWG	30 A	3.6 ft. (1.1 m)	2.36 inch (6 cm)	TBD
HM/HMS Connection Cable-NA10-200	3 x 10 AWG	30 A	6.6 ft. (2.0 m)	2.36 inch (6 cm)	TBD
HM/HMS Connection Cable-NA10-230	3 x 10 AWG	30 A	7.5 ft. (2.3 m)	2.36 inch (6 cm)	TBD
HM/HMS Connection Cable-NA10-300	3 x 10 AWG	30 A	9.8 ft.(3.0 m)	2.36 inch (6 cm)	TBD
HM/HMS Connection Cable-NA10-460	3 x 10 AWG	30 A	15.3 ft. (4.6 m)	2.36 inch (6 cm)	TBD

1) Please comply with local standards when designing and installing cables.

2) Cable length can be customized. Please contact Hoymiles sales for more details.



Three-phase Microinverter

HMT-1600-4T-208-NA
HMT-1800-4T-208-NA
HMT-2000-4T-208-NA

Hoymiles new generation microinverter HMT-2000-4T-208-NA series is designed to accommodate the high-powered PV modules, with maximum output power up to 2000 VA and maximum DC input current up to 16 A.

The innovative 4-input design enables faster installation and lower cost, and makes HMT-2000-4T-208-NA series a very cost-effective choice.

The new Sub-1G wireless solution enables more stable communication with Hoymiles gateway DTU.

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

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

✓ Designed for North American grids with a three-phase Delta network.

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

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

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

Technical Specifications

	HMT-1600-4T-208-NA	HMT-1800-4T-208-NA	HMT-2000-4T-208-NA
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	120/208, 3Φ/PE/N(Neutral optional)		
Peak output power(VA)	1600	1800	2000
Maximum continuous output power(VA)	1440	1728	1918
Maximum continuous output current(A)	4	4.8	5.33
Nominal output voltage(V)	120/208		
Nominal output voltage range(V) ¹	183-228		
Nominal frequency/range(Hz) ¹	60/55-65		
Power factor (adjustable)	>0.99 default 0.8 leading...0.8 lagging		
Total harmonic distortion	< 3%		
Maximum units per 12 AWG branch ²	4	3	3
Maximum units per 10 AWG branch ²	6	5	4
Efficiency			
CEC 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)	5.8		
Enclosure rating	Outdoor-IP67		
Cooling	Natural convection-No fans		
Features			
Communication	Sub-1G		
Topology	Galvanically Isolated HF Transformer		
Monitoring	S-Miles Cloud ³		
Compliance	UL 1741, IEEE 1547, UL 1741 SB, CSA C22.2 No. 107.1-16 FCC 15B, FCC 15C		
PV Rapid Shutdown	Conforms with NEC-2017 and NEC-2020 Article 690.12 and CEC-2021 Sec 64-218 Rapid Shutdown of PV Systems.		

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

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

*3 Hoymiles Monitoring System

Cable Accessories for Microinverter of HMT Series



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

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



3P-AC Trunk Port Cap

Used to protect vacant AC Trunk Port.



3P-AC Trunk Connector

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



3P-AC Trunk End Cap

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



3P-AC Trunk Port Disconnect Tool

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



3P-AC Trunk Connector Unlock Tool

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



DC Extension Cable

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

Technical Specifications

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

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

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



Data Transfer Unit DTU-Pro-S

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

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



Reliable and Flexible

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



Simple and Efficient O&M

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



Smart

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

Technical Specifications

Model	DTU-Pro-S (Wi-Fi Version)	DTU-Pro-S (4G Version)
Communication to Microinverter		
Signal	Sub-1G	
Maximum distance (open space)	400 m	
Monitoring data limit from solar panels ¹	99	
Communication to S-Miles Cloud		
Ethernet	RJ45 × 1, 100Mbps	
Wireless ²	Wi-Fi: 802.11b/g/n	4G: TDD-LTE, FDD-LTE 3G: SCDDMA 2G: GSM/GPRS
Sample rate	Per 15 minutes	
Communication to Peripherals		
RS485	COM × 1, 9600bps, Modbus-RTU	
Ethernet	RJ45 × 1, Modbus-TCP	
DRM (For AU/NZ only)	RJ45 × 1, DRM0/5/6/7/8	
Interaction		
LED	LED Indicator × 4 – RUN, Cloud, MI, ALM	
APP	S-Miles Toolkit	
Power Supply (Adapter)		
Type	External adapter	
Adapter input voltage/frequency	100 to 240 V AC/50 or 60 Hz	
Adapter output voltage/current	5 V/2 A	
Power consumption	Typ. 1.5 W / Max. 3.0 W	Typ. 2.5 W / Max. 5.0 W
Mechanical Data		
Ambient temperature (°C)	-20 to +55	
Dimensions (W × H × D mm)	200 × 101 × 29 (without antennas)	
Weight (kg)	0.20	
Installation method	Wall mounting / Desktop mounting	
Environmental rating	Indoor-IP20	
Compliance		
Certificates	CE, FCC, IC, RCM, Anatel	
Microinverter Compatibility		
Microinverter model	HMS series, HMT series	

*1 This depends on the installation environment. Please refer to 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.



Single-phase Hybrid Inverter

HYS-3.8LV-USG1
HYS-4.8LV-USG1
HYS-6.0LV-USG1
HYS-7.6LV-USG1
HYS-9.6LV-USG1
HYS-11.5LV-USG1

The HYS-LV-US Series is a high-performance single-phase hybrid inverter with excellent reliability, including power classes ranging from 3.8 kW to 11.5 kW. The intelligent EMS function supports self-consumption mode, economic mode, and backup mode for multi-scenario applications. Monitoring management through S-Miles Cloud allows users to remotely diagnose and track individual systems' performance over time, maximizing the total solar power production and battery utilization.

- ✓ Max. Efficiency 97.6%, CEC Efficiency 97.0%
- ✓ Double MPPT tracker, up to 32A MPPT current
- ✓ DC/AC ratio up to 150%
- ✓ Ultralight for easy installation and space-saving

- ✓ Support 120/240V backup power without external autotransformer
- ✓ Seamless backup power for whole home or critical loads
- ✓ Built-in dry contact flexibly set to earth fault alarm, load control or generator control
- ✓ Integrated arc fault protection and rapid shutdown function

Model	HYS-3.8LV-USG1	HYS-4.8LV-USG1	HYS-6.0LV-USG1	HYS-7.6LV-USG1	HYS-9.6LV-USG1	HYS-11.5LV-USG1
Battery						
Battery Type	Li-ion / Lead-acid					
Nominal Battery Voltage (V)	48					
Voltage Range (V)	40-60					
Max. Charge Current (A)	80	100	100	160	200	200
Max. Discharge Current (A)	80	100	100	160	200	200
Charging Strategy for Li-ion Battery	Self-adaption to BMS					
Charging Curve	3 Stages / Equalization					
External Temperature Sensor	Optional					
PV Input						
Max. PV Input Power (W)	5760	7200	9000	11520	14400	14400
Max. PV Input Voltage (V)	550					
Nominal Input Voltage (V)	380					
MPPT Voltage Range (V)	125-500					
Start-up Voltage (V)	150					
Number of MPPTs	2	2	2	2	2	2
Max. Number of PV String per MPPT	1/1	1/1	1/1	2/2	2/2	2/2
Max. PV Input Current (A)	16/16	16/16	16/16	32/32	32/32	32/32
Short-circuit Current of PV Input (A)	20/20	20/20	20/20	40/40	40/40	40/40
AC Input and Output (On-grid)						
Nominal Output Apparent Power (VA)	3840	4800	6000	7680	9600	11520
Max. Output Apparent Power (VA)	3840	4800	6000	7680	9600	11520
Max. Input Apparent Power (VA)	7680	9600	12000	15360	19200	19200
Nominal AC Voltage (V)	240					
Nominal Grid Frequency (Hz)	60					
Max. Output Current (A)	16	20	25	32	40	48
Max. Input Current (A)	32	40	50	64	80	80
Power Factor	0.8 leading ... 0.8 lagging					
Total Harmonic Distortion (@nominal output)	< 3%					
AC Output (Off-grid)						
Max. Output Apparent Power (VA)	3840	4800	6000	7680	9600	9600
Peak Output Apparent Power (VA)	7680, 10s	9600, 10s	12000, 10s	15360, 10s	19200, 10s	19200, 10s
Nominal AC Voltage (V)	120 / 240 (split phase)					
Nominal AC Frequency (Hz)	60					
Max. Continuous Output Current (A)	16	20	25	32	40	40
Total Harmonic Distortion (@ linear load)	< 3%					
Efficiency						
Max. Efficiency	97.6%	97.6%	97.6%	97.6%	97.6%	97.6%
CEC Efficiency	97.0%	97.0%	97.0%	97.0%	97.0%	97.0%
Max. Battery to Load Efficiency	95.0%	95.0%	95.0%	95.0%	95.0%	95.0%
MPPT Efficiency	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%
Protection						
Anti-islanding Protection				Integrated		
PV Arc Fault Detection				Integrated		
PV String Input Reverse Polarity Protection				Integrated		
Compliant MLRSD Products				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		
General						
Dimensions (W × H × D)	19.8 × 23.6 × 7.95 inch (502 × 615 × 202 mm)			19.8 × 29.1 × 7.95 inch (502 × 740 × 202 mm)		
Weight	68.3 lbs (31 kg)			90.4 lbs (41 kg)		
Mounting				Wall Mounting		
Operation Temperature (°F)				-13 to +149 (> 113, derating)		
Relative Humidity				0-95%, no condensing		
Altitude (m)				≤ 2000		
Cooling				Natural convection		
Protection Degree				Type 4X		
Noise (dB [A])				< 40		
User Interface				LED & App		
Communication with BMS				RS485, CAN		
Communication with Meter				RS485		
Communication Interface				RS485, Wi-Fi/Ethernet/4G (optional)		
Digital Input/output				1 × DI, 2 × DO		
Max Parallel				10		
Isolation Method (Solar / Battery)				Transformerless / High-frequency Isolation		
Certifications and Standards						
Grid Regulation				IEEE 1547-2018, IEEE 1547.1-2020, SRD2.0		
Safety Regulation				UL 1741, CSA C22.2 No.107.1, UL 1741 CRD, UL1741 SB		
AFCI				UL 1699B		
Software Approval				UL 1998		
EMC				FCC Part 15 Class B		



Data Transfer Stick

DTS-WIFI-G1

DTS-Ethernet-G1

DTS-4G-G1

Hoymiles gateway DTS series are data transfer sticks that work between inverters and S-Miles Cloud platform via Wi-Fi, Ethernet or 4G communication. The DTS is designed as a suitable option for the energy storage system.

Hoymiles DTS is small and easy to install. It pairs with the S- Miles Cloud platform to enable real-time system data or alarm monitoring and allows remote operation and maintenance of the storage energy system from anywhere.



Integrated to use, simply plug and play



Stable and reliable data transmission



IP65 protection



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

Technical Specifications



Model	DTS-WIFI-G1
Communication	
Max. Inverter Supported	10
Sample Rate	15 minutes
Indicator	LED
Connection Interface	USB
Wireless Standard	802.11b/g/n
Frequency Range	2.412 GHz - 2.484 GHz
Configuration Method	App / Web
General	
Operating Voltage	DC 5 V
Power Consumption	≤ 5 W
Dimensions (W × H × D)	108 × 57 × 36 mm (4.3 × 2.2 × 1.4 inch)
Weight	60 g (0.13 lb)
Protection Degree	IP65
Installation Method	Insert + Screw
Environment	
Operating Temperature Range	-25°C to 65°C (-13°F to 149°F)
Relative Humidity	0-95%, no condensing
Operating Altitude	≤ 4000 m
Certifications and Standards	
Certificate	CE / RCM

Technical Specifications

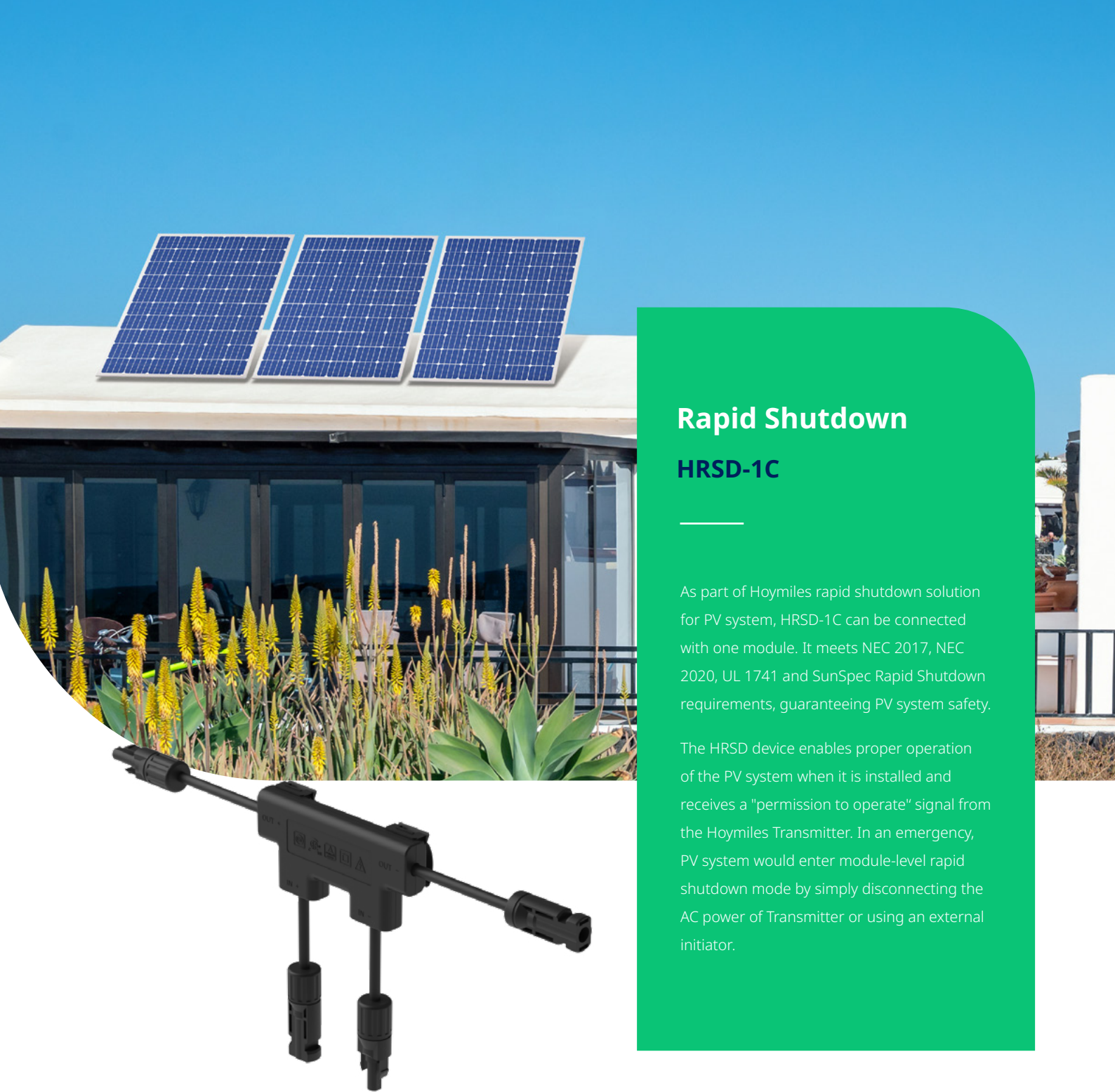


Model	DTS-Ethernet-G1
Communication	
Max. Inverter Supported	10
Sample Rate	15 minutes
Indicator	LED
Connection Interface	USB
Ethernet Interface	RJ45
Ethernet Interface Standard	10Base-T / 100Base-T
Max. Distance of Network Cable	80 m
Configuration Method	App / Web
General	
Operating Voltage	DC 5 V
Power Consumption	≤ 5 W
Dimensions (W × H × D)	108 × 57 × 36 mm (4.3 × 2.2 × 1.4 inch)
Weight	130 g (0.22 lb)
Protection Degree	IP65
Installation Method	Insert + Screw
Environment	
Operating Temperature Range	-25°C to 65°C (-13°F to 149°F)
Relative Humidity	0-95%, no condensing
Operating Altitude	≤ 4000 m
Certifications and Standards	
Certificate	CE / RCM

Technical Specifications



Model	DTS-4G-G1
Communication	
Max. Inverter Supported	10
Sample Rate	15 minutes
Indicator	LED
Connection Interface	USB
4G Standard & Frequency Range	4G: LTE-FDD / LTE-TDD 3G: WCDMA / HSDPA / HSUPA / HSPA+ 2G: GSM / GPRS / EDGE
Configuration Method	App / Web
General	
Operating Voltage	DC 5 V
Power Consumption	≤ 5 W
Dimensions (W × H × D)	108 × 57 × 36 mm (4.3 × 2.2 × 1.4 inch)
Weight	80 g (0.18 lb)
Protection Degree	IP65
Installation Method	Insert + Screw
Environment	
Operating Temperature Range	-25°C to 65°C (-13°F to 149°F)
Relative Humidity	0-95%, no condensing
Operating Altitude	≤ 4000 m
Certifications and Standards	
Certificate	CE / RCM



Rapid Shutdown

HRSD-1C

As part of Hoymiles rapid shutdown solution for PV system, HRSD-1C can be connected with one module. It meets NEC 2017, NEC 2020, UL 1741 and SunSpec Rapid Shutdown requirements, guaranteeing PV system safety.

The HRSD device enables proper operation of the PV system when it is installed and receives a "permission to operate" signal from the Hoymiles Transmitter. In an emergency, PV system would enter module-level rapid shutdown mode by simply disconnecting the AC power of Transmitter or using an external initiator.

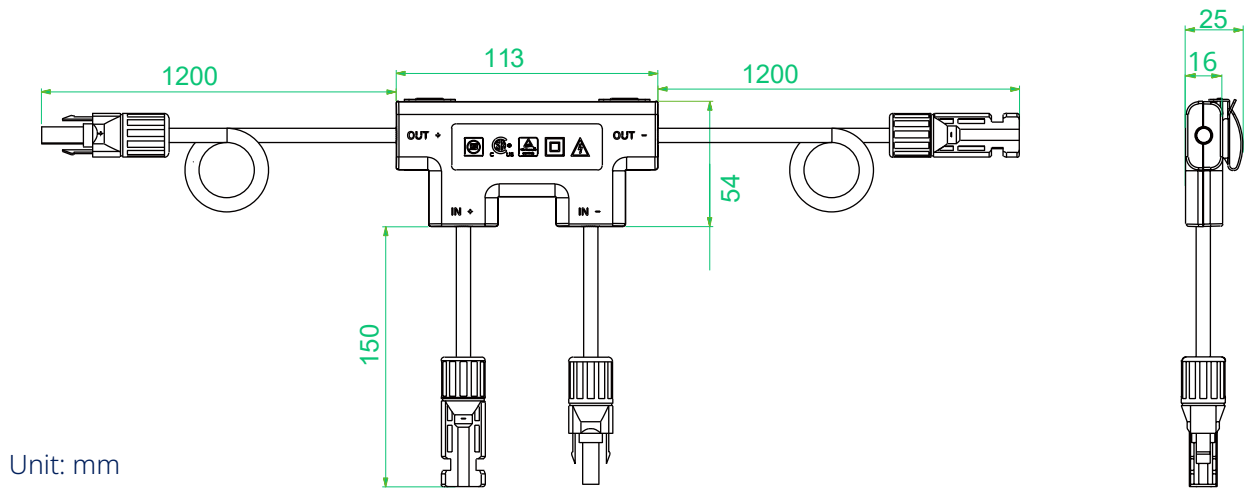
-  **Module-level Rapid Shutdown**
Meets SunSpec RSD, NEC 2017&NEC 2020 690.12 requirements
-  **Increased Reliability**
Uses Active Bypass to reduce heat generation in shade and other situations
-  **Better Temperature Uniformity**
Uses graphene heat spreader to improve heat dissipation

-  **Easy Installation**
Plug & play, no configuration required
-  **High Efficiency**
Lower power consumption and wider operating voltage range
-  **Reliable Communication**
Able to avoid crosstalk with special communication modulation technique

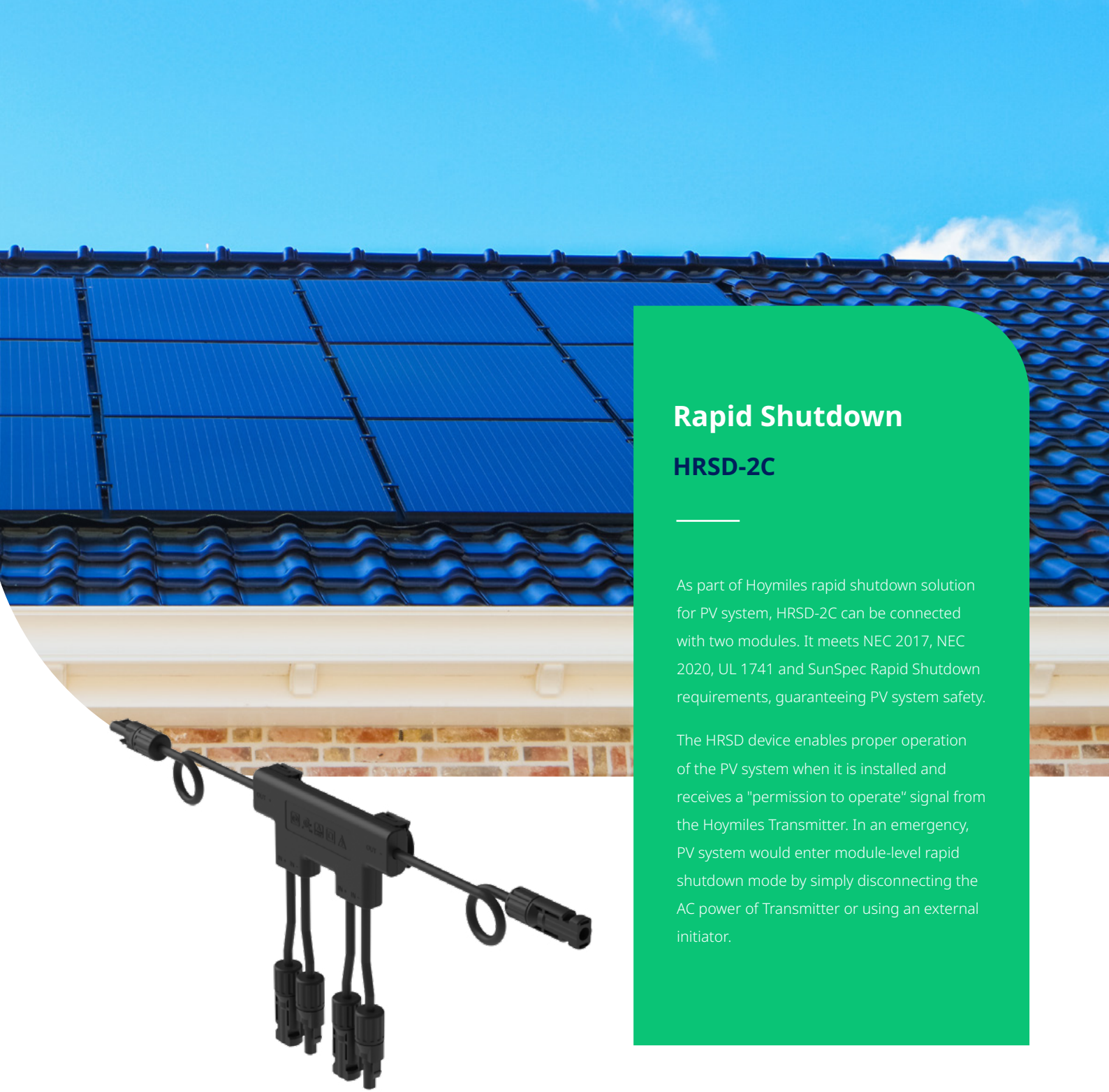
Technical Specifications

Model	HRSD-1C	HRSD-1C-B
Electrical Data		
Input Voltage Range	13-80 V	13-65 V
Maximum Current	15 A	20 A
Maximum Short Circuit Current	25 A	
Maximum System Voltage	1000/1100 V (1500 V optional)	
Communication Type	SunSpec PLC	
Shutdown Output Voltage	1 V	
Power Consumption	200 mW	
Mechanical Data		
Input Connectors	MC4 / MC4 EVO2, Customisable	
Input Cable Length	0.15 m (0.49 ft.) , Customisable	
Output Connectors	MC4 / MC4 EVO2, Customisable	
Output Cable Length	1.2 m (3.94 ft.) ¹ , Customisable	
Dimensions	113 x 54 x 16 mm (4.45 x 2.13 x 0.63 inch)	
Environmental		
Operating Temperature Range	-40°C to +85°C (-40°F to +185°F)	
Outdoor Rating	IP68 / NEMA6P	
Compliance		
Safety	UL1741, CSA C22.2 No. 330-17, IEC/EN 62109-1	
EMC	FCC Part15 Class B, ICES-003, IEC/EN 61000-6-1/-2/-3/-4	

*1: Fits PV module in landscape and portrait installation.



Unit: mm



Rapid Shutdown

HRSD-2C

As part of Hoymiles rapid shutdown solution for PV system, HRSD-2C can be connected with two modules. It meets NEC 2017, NEC 2020, UL 1741 and SunSpec Rapid Shutdown requirements, guaranteeing PV system safety.

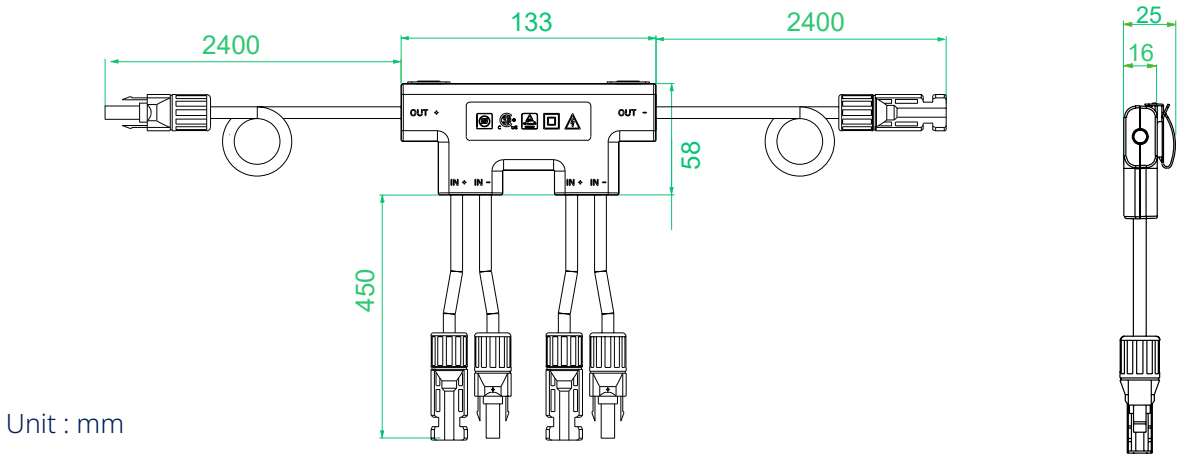
The HRSD device enables proper operation of the PV system when it is installed and receives a "permission to operate" signal from the Hoymiles Transmitter. In an emergency, PV system would enter module-level rapid shutdown mode by simply disconnecting the AC power of Transmitter or using an external initiator.

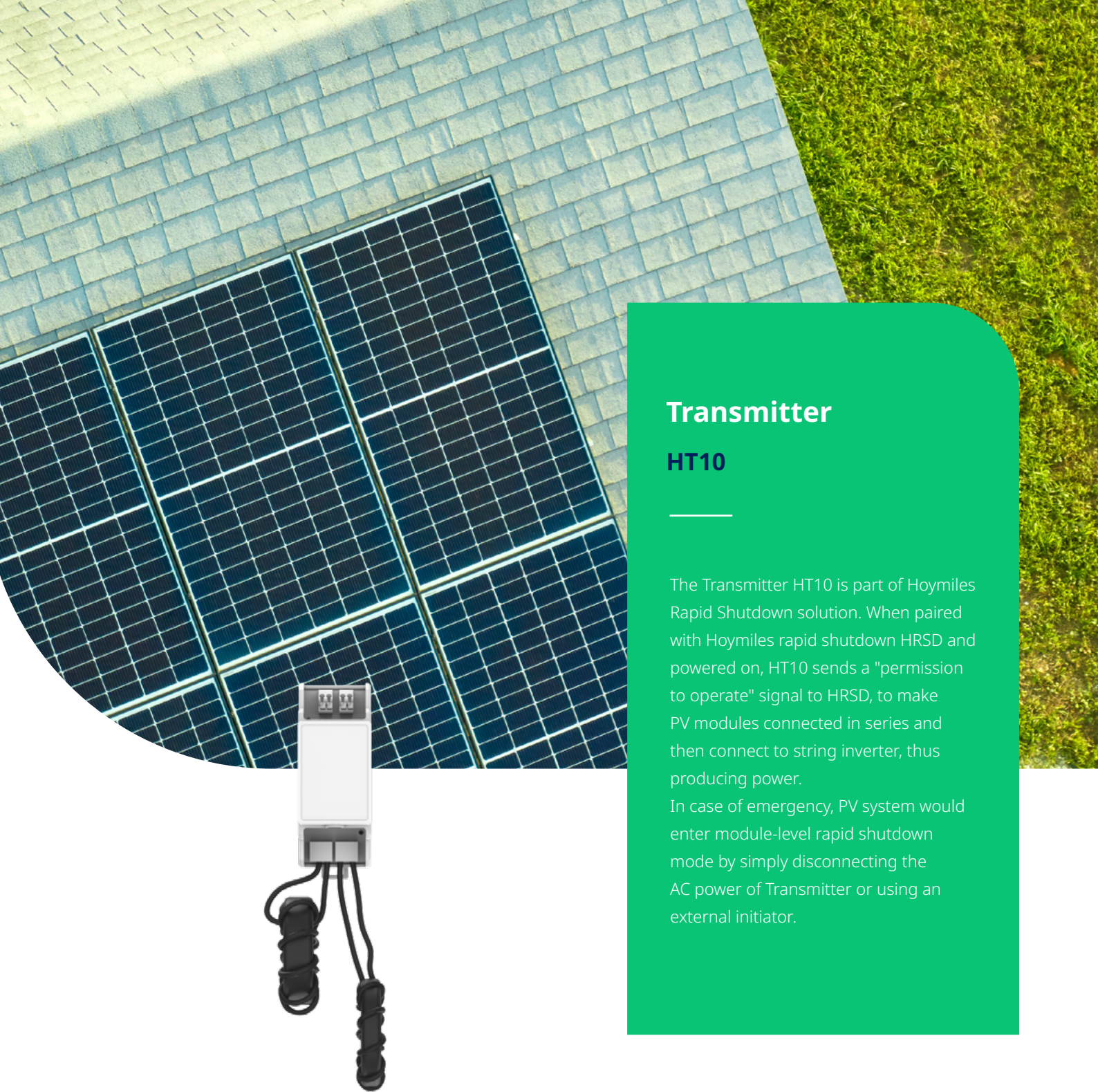
-  **Module-level Rapid Shutdown**
Meets SunSpec RSD, NEC 2017&NEC 2020 690.12 requirements
-  **Increased Reliability**
Uses Active Bypass to reduce heat generation in shade and other situations
-  **Better Temperature Uniformity**
Uses graphene heat spreader to improve heat dissipation

-  **Easy Installation**
Plug & play, no configuration required
-  **High Efficiency**
Lower power consumption and wider operating voltage range
-  **Reliable Communication**
Able to avoid crosstalk with special communication modulation technique

Technical Specifications

Model	HRSD-2C	HRSD-2C-B
Electrical Data		
Output Voltage Range	16-160 V	16-130 V
Input Voltage Range	8-80 V	8-65 V
Maximum Current	15 A	20 A
Maximum Short Circuit Current	25 A	
Maximum System Voltage	1000/1100 V (1500 V optional)	
Communication Type	SunSpec PLC	
Shutdown Output Voltage	1 V	
Power Consumption	200 mW	
Mechanical Data		
Input Connectors	MC4 / MC4 EVO2, Customisable	
Input Cable Length	0.45 m (1.48 ft.), Customisable	
Output Connectors	MC4 / MC4 EVO2, Customisable	
Output Cable Length	2.4 m (7.87 ft.) ¹ , Customisable	
Dimensions	133 x 58 x 16 mm (5.24 x 2.28 x 0.63 inch)	
Environmental		
Operating Temperature Range	-40°C to +85°C (-40°F to +185°F)	
Outdoor Rating	IP68 / NEMA6P	
Compliance		
Safety	UL1741, CSA C22.2 No. 330-17, IEC/EN 62109-1	
EMC	FCC Part15 Class B, ICES-003, IEC/EN 61000-6-1/-2/-3/-4	
*1 Fits PV module in landscape and portrait installation.		





Transmitter

HT10

The Transmitter HT10 is part of Hoymiles Rapid Shutdown solution. When paired with Hoymiles rapid shutdown HRSD and powered on, HT10 sends a "permission to operate" signal to HRSD, to make PV modules connected in series and then connect to string inverter, thus producing power.

In case of emergency, PV system would enter module-level rapid shutdown mode by simply disconnecting the AC power of Transmitter or using an external initiator.

✓ Meets NEC 2017&NEC 2020 690.12 requirements

✓ Meets SunSpec RSD requirements

✓ Equipped with one / two cores

✓ Realize rapid shutdown by simply powering off the transmitter or using an external initiator

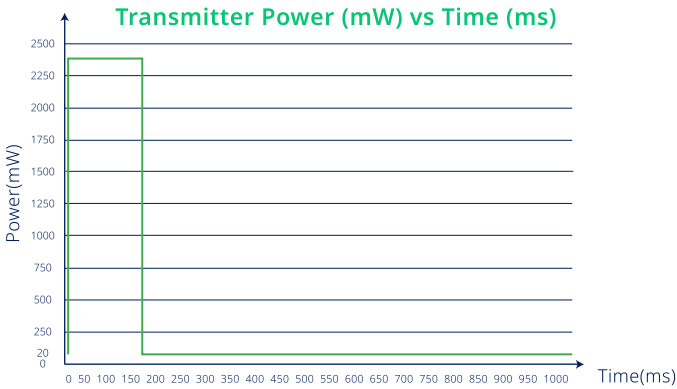
Technical Specifications

Model	HT10	
Electrical		
Transmitter Input Voltage	12 VDC (+/-2%)	
Transmitter Input Current	1 A	
Communication Type	SunSpec PLC	
Core		
Max. Number of Cores Connected	2	
Max. Current per Core	75 A	150 A
Max. String Voltage	1500 VDC	
Max. Number of Strings per Core ¹	5	15
Mechanical		
Dimensions	93 x 36.5 x 53 mm	
Mounting Type	DIN35 Rail	
Environmental		
Operating Temperature Range	-40°C to +85°C (-40°F to +185°F)	
Outdoor Rating	IP30 / NEMA1	
Compliance		
Safety	UL1741, CSA C22.2 No. 330-17	
EMC	FCC Part15 Class B, ICES-003	

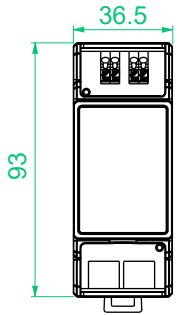
*1: Φ 6 mm DC cable diameter

When installed inside an inverter, HT10 needs to be powered with the following power curve at least.

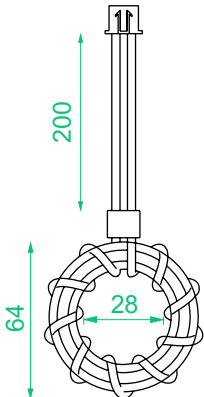
- Voltage: 12 VDC (+/-2%)
- Power Standby: 0.2 W
- Duty Cycle: 16%
- Max. Power: 3W



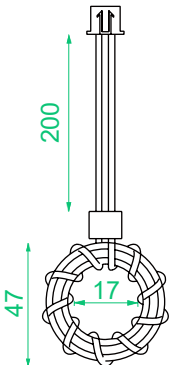
Unit : mm



Transmitter



Core-150A



Core-75A



Transmitter

HT10-Kit

Hoymiles Transmitter HT10-Kit is part of a rapid shutdown solution when paired with Hoymiles rapid shutdown HRSD. While powered on, HT10-Kit sends a “permission to operate” signal to HRSD to keep the PV modules connected in series to the string inverter and producing power.

PV system equipped with HRSD and HT10-Kit enters module-level rapid shutdown by simply disconnecting the AC power of the Transmitter during emergencies.

Hoymiles Transmitter Outdoor Kit includes one Transmitter, one or two cores, 85~264 V power supply and outdoor enclosure.

- ✓

Module-level rapid shutdown with Hoymiles HRSD
- ✓

Realize rapid shutdown by simply powering off the transmitter or using an external initiator
- ✓

Equipped with single/dual core
- ✓

Meets NEC 2017&NEC 2020 (690.12) and SunSpec RSD requirements
- ✓

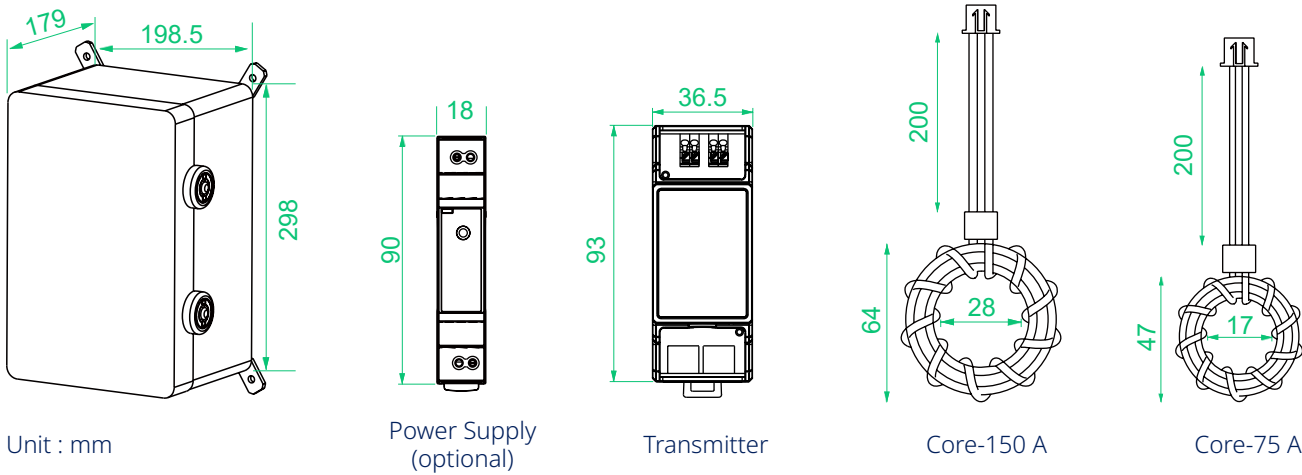
Weatherproof outdoor enclosure
- ✓

Includes power supply

Technical Specifications

Model	HT10-Kit	
Electrical		
Power Supply Input Voltage	85-26 4VAC	
Transmitter Input Voltage	12 VDC (+/-2%)	
Transmitter Input Current	1 A	
Communication Type	SunSpec PLC	
Core		
Max. Number of Configure Core	2	
Max. Current per Core	75 A	150 A
Max. String Voltage	1500 VDC	
Max. Number of Strings per Core ¹	5	15
Mechanical		
Dimensions	198.5 x 298 x 179 mm	
Mounting Type	Wall mounted	
Environmental		
Operating Temperature Range	-40°C to +85°C (-40°F to +185°F)	
Outdoor Rating	IP65/NEMA4	
Compliance		
Safety	UL1741, CSA C22.2 No. 330-17	
EMC	FCC Part15 Class B, ICES-003	

*1 According to the cable diameter Φ 6 mm, if cable diameter is more than Φ 6 mm, Strings Per Core will be reduced. Care should also be taken not to exceed the allowable current.





94.38kW

Nova Scotia, Canada

Project Success

Residential

Capacity: 7.28kW

Location: Canada



Capacity: 31.5kW

Location: Mildenberger Estate, Halifax, Canada



Farm Project

Capacity: 281kW

Location: Central Missouri, US



Project Success

Capacity: 15.28kW

Location: Warsaw, Poland



Capacity: 15kW

Location: Kuala Lumpur, Malaysia



Capacity: 12kW

Location: Sao Paulo



Project Success

Residential

Capacity: 7kW

Location: Bystrzyca, Poland



Commercial

Capacity: 15.36kW

Location: Bangkok, Thailand



Capacity: 3.6kW

Location: Saubens, France



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