

HMT-1800 HMT-2250

Description

The world's first three-phase microinverter with Reactive Power Control, can be widely used in the general 230V/400V three-phase electric power distribution. Each microinverter, with up to 6 PV modules connected, simplifies the installation process and ranks among the most cost effective solutions for commercial and industrial installations.

Features

01	Three-phase output, more suitable for commercial and industrial applications
02	Up to 2250VA output, adapted to mainstream high-powered PV modules
03	Each microinverter, with up to 6 PV modules connected, simplifies the installation process and ranks among the most cost effective solutions for commercial and industrial installations

04

With Reactive Power Control, meets the requirements of EN50549-1:2019, VDE-AR-N 4105:2018, TOR Erzeuger : 2019-12, etc.

05

The Sub-1G wireless solution enables the stable communication when installed for commercial and industrial stations

Model	HMT-1800-6T	HMT-2250-6T		
Input Data(DC)				
Commonly used module power(W)	240~380 300~470			
Peak power MPPT voltage range(V)	29~48	36~48		
Start-up voltage(V)		22		
Operating voltage range(V)	16	5~60		
Maximum input voltage(V)		60		
Maximum input current(A)	6	*11.5		
Output Data(AC)				
Grid connection	Thre	ee phase		
Rated output power(VA)	1800	2250		
Rated output current(A)	2.61*3	3.26*3		
Nominal output voltage/range(V) ¹	230Vac/400	Wac, 3W+N+PE		
Nominal frequency/range(Hz) ¹	5	0/60		
Power factor(adjustable)) default g0.8 lagging		
Total harmonic distortion		<3%		
Maximum units per 12AWG branch ²	7	6		
Maximum units per 10AWG branch ²	11	9		
Efficiency				
CEC peak efficiency	91	6.5%		
Nominal MPPT efficiency	9	9.8%		
Night power consumption(mW)	<	< 50		
Mechanical Data				
Ambient temperature range(°C)	-40	~ +65		
Dimensions(W×H×D mm)	330*250*35	330*250*37		
Weight(kg)	5.5	6.0		
Enclosure rating	Outdoor-I	NEMA6(IP67)		
Cooling	Natural conv	vection-No fans		
Features				
Communication	Sub-1G			
Monitoring	Hoymiles Monitoring System			
Compliance	VDE-R-N 4105: 2018, EN 50549-1: 2019, TOR Erzeuger : 2019-12, IEC/EN 62109-1/-2, IEC/EN 61000-3-2/-3, IEC/EN 61000-6-1/-2/-3/-4			

*1 Nominal voltage/frequency range can be changed due to the requirements of local power department. *2 Refer to local requirements for exact number of microinverters per branch.





HMS-1800 HMS-2000

Description

With the output power up to 2000VA, Hoymiles new microinverter HMS-2000 ranks among the highest for 4 in 1 microinverters. Each microinverter connects up to four PV modules with independent MPPT and monitoring, makes greater energy harvest and easier maintenance.

New Sub-1G wireless solution enables more stable communication when installed for any installation environment.

Features

01	Highest-powered microinverter with output power up to 2000VA
02	Independent MPPT and monitoring makes greater energy harvest and easier maintenance
03	With Reactive Power Control, meets the requirements of EN50549-1:2019, VDE-AR-N 4105:2018, UL1741, ABNT NBR 16150, etc.

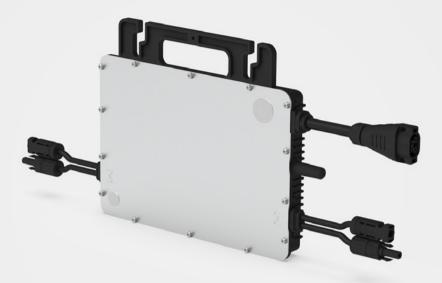
04	Each microinverter supports up to 4 modules, faster installation and lower cost
05	Safer for rooftop solar stations with rapid shutdown compliant and isolated transformer
06	Sub-1G wireless solution enables the stable communication when installed for commercial and industrial stations

Model	HMS-1800-4T			HMS-2000-4T			
Input Data(DC)							
Commonly used module power(W)	360~565			400~625			
Peak power MPPT voltage range(V)		36~48			38~48		
Start-up voltage(V)			2	22			
Operating voltage range(V)			16	~60			
Maximum input voltage(V)			6	50			
Maximum input current(A)		4*13.3			4*14		
Output Data(AC)					-	-	
Rated output power(VA)		1800			2000		
Rated output current(A)	8.18	7.83	7.5	9.09	8.70	8.33	
Nominal output voltage/range(V) ¹	220/180-275	230/180-275	240/180-275	220/180-275	230/180-275	240/180-275	
Nominal frequency/range(Hz) ¹			50/45-55	or 60/55-65			
Power factor(adjustable)	>0.99 default 0.8 leading0.8 lagging						
Total harmonic distortion			<	3%			
Maximum units per 10AWG branch ²	3	4	4	3	3	3	
Efficiency							
CEC peak efficiency			96	.5%			
Nominal MPPT efficiency			99	99.8%			
Night power consumption(mW)	<50						
Mechanical Data					*	*	
Ambient temperature range(°C)			-40 -	~ +65			
Dimensions(W×H×D mm)			331*21	18*34.6			
Weight (kg)			4	.7			
Enclosure rating			Outdoor-N	EMA6(IP67)			
Cooling	Natural conve			ection-No fans			
Features							
Communication			Sub	p-1G			
Monitoring	Hoymiles Monitoring System						
Compliance	EN 50549-1: 2019, VDE-R-N 4105: 2018, UL1741, AB IEC/EN 61000-6-1/-2/-3/-4, IEC/E				6150, IEC/EN 621	09-1/-2,	

*1 Nominal voltage/frequency range can be changed due to the requirements of local power department.

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





HMS-900 HMS-1000

Description

With the output power up to 1000VA, Hoymiles new microinverter HMS-1000 ranks among the highest for 2 in 1 microinverters. Each microinverter connects up to 2 PV modules with independent MPPT and monitoring, makes greater energy harvest and easier maintenance.

New Sub-1G wireless solution enables more stable communication when installed for any installation environment.

Features

01	Highest-powered microinverter for 2 in 1 with output power up to 1000VA
02	With Reactive Power Control, meets the requirements of EN50549-1:2019, VDE-AR-N 4105:2018, UL1741, ABNT NBR 16150, etc.
03	Safer for rooftop solar stations with rapid shutdown compliant and isolated transformer

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Independent MPPT and monitoring makes greater energy harvest and easier maintenance

Each microinverter supports up to 2 modules, faster installation and good adaptability to all kinds of module arrangement

06 Sub-1G wireless solution enables the stable communication when installed for commercial and industrial stations

Model	HMS-900-2T			HMS-1000-2T		
Input Data(DC)						
Commonly used module power(W)	360~565			400~625		
Peak power MPPT voltage range(V)		36~48			38~48	
Start-up voltage(V)				22		
Operating voltage range(V)			16	i~60		
Maximum input voltage(V)				60		
Maximum input current(A)		2*13.3			2*14	
Output Data(AC)						
Rated output power(VA)		900			1000	
Rated output current(A)	4.09	3.91	3.75	4.55	4.35	4.17
Nominal output voltage/range(V) ¹	220/180-275	230/180-275	240/180-275	220/180-275	230/180-275	240/180-275
Nominal frequency/range(Hz) ¹			50/45-55	or 60/55-65		
Power factor(adjustable)				default 0.8 lagging		
Total harmonic distortion			-	:3%		
Maximum units per 10AWG branch ²	7	8	8	7	7	7
Efficiency						
CEC peak efficiency			96	5.5%		
Nominal MPPT efficiency			99	9.8%		
Night power consumption(mW)			<	50		
Mechanical Data	-					
Ambient temperature range(°C)			-40	~ +65		
Dimensions(W×H×D mm)			261*:	223*31		
Weight(kg)			3	3.0		
Enclosure rating	Outdoor-NEMA6(IP67)					
Cooling	Natural convection-No fans					
Features						
Communication	Sub-1G					
Monitoring	Hoymiles Monitoring System					
	EN 50549-1: 2019, VDE-R-N 4105: 2018, UL1741, ABNT NBR 16150, IEC/EN 62109-1/-2,IEC/EN 61000-6-1/-2/-3/-4, IEC/EN 61000-3-2/-3					

*1 Nominal voltage/frequency range can be changed due to the requirements of local power department. *2 Refer to local requirements for exact number of microinverters per branch.





HMS-450 HMS-500

Description

With the output power up to 500VA, Hoymiles new microinverter HMS-500 ranks among the highest for 1 in 1 microinverters. Each microinverter connects up to 1 PV modules with independent MPPT and monitoring, makes greater energy harvest and easier maintenance.

New Sub-1G wireless solution enables more stable communication when installed for any installation environment.

Features

01	Highest-powered microinverter for 1 in 1 with output power up to 500VA
02	With Reactive Power Control, meets the requirements of EN50549-1:2019, VDE-AR-N 4105:2018, UL1741, etc.
03	Safer for rooftop solar stations with rapid shutdown compliant and isolated transformer

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Excellent flexibility, faster installation and good adaptability to all kinds of module arrangement

Sub-1G wireless solution enables the stable communication when installed for commercial and industrial stations

Model	HMS-450-1T			HMS-500-1T		
Input Data(DC)						
Commonly used module power(W)	360~565			400~625		
Peak power MPPT voltage range(V)		36~48			38~48	
Start-up voltage(V)			-	22		
Operating voltage range(V)			16	~60		
Maximum input voltage(V)			6	50		
Maximum input current(A)		13.3			14	
Output Data(AC)						
Rated output power(VA)		450			500	
Rated output current(A)	2.05	1.96	1.88	2.27	2.17	2.08
Nominal output voltage/range(V) ¹	220/180-275	230/180-275	240/180-275	220/180-275	230/180-275	240/180-275
Nominal frequency/range(Hz) ¹			50/45-55	or 60/55-65		
Power factor(adjustable)				default 0.8 lagging		
Total harmonic distortion			5	3%		
Maximum units per 10AWG branch ²	15	16	17	14	14	15
Maximum units per 12AWG branch ²	9	10	10	8	9	9
Efficiency						
CEC peak efficiency			96	.5%		
Nominal MPPT efficiency			99	.8%		
Night power consumption(mW)			<	< 50		
Mechanical Data						
Ambient temperature range(°C)			-40	~ +65		
Dimensions(W×H×D mm)			182*1	164*30		
Weight(kg)			1	.75		
Enclosure rating	Outdoor-N			IEMA6(IP67)		
Cooling	Natural convection-No fans					
Features						
Communication			Sul	o-1G		
Monitoring				nitoring System		
Compliance	EN 50549-1: 2019, V IEC/EN 62109-1/-2,IEC/EN 61					2/-3

*1 Nominal voltage/frequency range can be changed due to the requirements of local power department. *2 Refer to local requirements for exact number of microinverters per branch.





Data Transfer Unit Datasheet

DTU-Pro-S

Description

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

With DTU-Pro-S, users can easily read the module-level data and alarm, realize remote operation and maintenance of the microinverter system at any time and any place on S-miles Cloud.

Features

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eliable 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

03

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

Model	DTU-Pro-S(WIFI Version)	DTU-Pro-S(4G Version)		
Communication to Microinverter				
Signal	Sub-1G			
Maximum distance (open space)	4	00m		
Monitoring data limit from solar panels ¹		99		
Communication to S-miles Cloud				
Ethernet	RJ45*1,	100Mbps		
Wireless ²	WIFI: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, 9600b	ops, Modbus-RTU		
Ethernet	RJ45*1, N	Nodbus-TCP		
DRM (For AU/NZ only)	RJ45*1, D	RM0/5/6/7/8		
Interaction				
LED	LED Indicator*4 – RUN, Cloud, MI, ALM			
APP	S-miles Toolkit			
Power Supply (Adapter)				
Туре	Externa	al adapter		
Adapter input voltage/frequency	100 to 240 V	AC / 50 or 60Hz		
Adapter output voltage/current	5∨	//2A		
Power consumption	Typ. 1.5W / Max. 3.0W	Typ. 2.5W / Max. 5.0W		
Mechanical Data				
Ambient temperature(°C)	-20°C to 55°C			
Dimensions(W×H×D)	200mm×101mm×29	mm (without antennas)		
Weight	0.2	20 kg		
Installation method	Wall mounting /	Desktop mounting		
Environmental rating	Indoor-IP20			
Compliance				
Certificates	CE, FCC, IC, RCM, Anatel			
Microinverter Compatibility				
Microinverter model	HMT-2250/1800-6T HMS-2000/1800-4T, HMS-1500/1200-4T HMS-1000/900-2T, HMS-800/700/600-2T HMS-500/450/400/350/300-1T			

*1 Depending on the installation environment, please refer to user manual for more details. *2 If the DTU installation location is inside a metal box or under the metal/concrete roof, extended antenna will be suggested.