



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

05

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

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)	1	6~60		
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)	>0.99 default 0.8 leading0.8 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	9	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-NEMA6(IP67)			
Cooling	Natural convection-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	04	Each microinverter supports up to 4 modules, faster installation and lower cost
02	Independent MPPT and monitoring makes greater energy harvest and easier maintenance	05	Safer for rooftop solar stations with rapid shutdown compliant and isolated transformer
03	With Reactive Power Control, meets the requirements of EN50549-1:2019, VDE-AR-N 4105:2018, UL1741, ABNT NBR 16150, etc.	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	2		
Operating voltage range(V)			16~	-60		
Maximum input voltage(V)			6	0		
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 c	or 60/55-65		
Power factor(adjustable)	>0.99 default 0.8 leading0.8 lagging					
Total harmonic distortion			<3	3%		
Maximum units per 10AWG branch ²	3	4	4	3	3	3
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)			331*21	331*218*34.6		
Weight (kg)	4.7					
Enclosure rating	Outdoor-NEMA6(IP67)					
Cooling	Natural convec		ction-No fans			
Features						
Communication	Sub-1G					
Monitoring	Hoymiles Monitoring System					
Compliance	EN 505	49-1: 2019, VDE-R IEC/E	-N 4105: 2018, UL N 61000-6-1/-2/-3/	1741, ABNT NBR 1 -4, IEC/EN 61000-	6150, IEC/EN 621 3-2/-3	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	04	Independent MPPT and monitoring makes greater energy harvest and easier maintenance
02	With Reactive Power Control, meets the requirements of EN50549-1:2019, VDE-AR-N 4105:2018, UL1741, ABNT NBR 16150, etc.	05	Each microinverter supports up to 2 modules, faster installation and good adaptability to all kinds of module arrangement
03	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-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	~60		
Maximum input voltage(V)			(50		
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)	>0.99 default 0.8 leading0.8 lagging					
Total harmonic distortion			<	3%		
Maximum units per 10AWG branch ²	7	8	8	7	7	7
Efficiency						
CEC peak efficiency			96	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)	261*223*31					
Weight(kg)	3.0					
Enclosure rating	Outdoor-NEMA6(IP67)					
Cooling	Natural		Natural conv	ection-No fans		
Features						
Communication			Sul	p-1G		
Monitoring			Hoymiles Mor	nitoring System		
Compliance	EN IE	l 50549-1: 2019 C/EN 62109-1/-), VDE-R-N 4105 2,IEC/EN 61000	: 2018, UL1741, -6-1/-2/-3/-4, IE	, ABNT NBR 161 C/EN 61000-3-2	50, /-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		
	With Reactive Power Control, meets the	04	Excellent flexibility, faster installation and good adaptability to all kinds of module arrangement
02	requirements of EN50549-1:2019, VDE-AR-N 4105:2018, UL1741, etc.		Sub-1G wireless solution enables the stable
03	Safer for rooftop solar stations with rapid	05	communication when installed for commercial and industrial stations
	shutdown compliant and isolated transformer		

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)			2	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 0	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	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*164*30					
Weight(kg)		1.75				
Enclosure rating	Outdoor-N		EMA6(IP67)			
Cooling	Natural convection-No fans					
Features						
Communication	Sub-1G					
Monitoring			Hoymiles Mor	itoring System		
Compliance	IE	EN 5054 -/EN 62109-1	9-1: 2019, VDE- 2,IEC/EN 61000	R-N 4105: 2018 -6-1/-2/-3/-4, IE	, UL1741, C/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.



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Data Transfer Unit Datasheet

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

DTU-Pro-S

01	Reliable and Flexible • Sub-1G wireless solution enables stable communication with HMS, HMT se • More communication options with Ethernet, Wi-Fi or 4G • Support of RS485, Ethernet to communicate with peripherals	series of microinverter	
02	 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 	03 Smart • 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)		400m		
Monitoring data limit from solar panels ¹		99		
Communication to S-miles Cloud				
Ethernet	RJ45*	1, 100Mbps		
Wireless ²	4G:TDD-LTE, FDD-LTE WIFI:802.11b/g/n 3G:SCDMA 2G:GSM/GPRS			
Sample rate	Per 1	5 minutes		
Communication to Peripherals				
RS485	COM*1, 9600	Dbps, 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			
АРР	S-miles Toolkit			
Power Supply (Adapter)				
Туре	Exter	nal adapter		
Adapter input voltage/frequency	100 to 240 V AC / 50 or 60Hz			
Adapter output voltage/current	<u> </u>	5V / 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×2	9mm (without antennas)		
Weight	0.20 kg			
Installation method	Wall mounting / Desktop mounting			
Environmental rating	Indoor-IP20			
Compliance				
Certificates	CE, FCC, IC, RCM, Anatel			
Microinverter Compatibility				
Microinverter model	HMT-2 HMS-2000/1800- HMS-1000/900-2 HMS-500/45	250/1800-6T 4T, HMS-1500/1200-4T T, HMS-800/700/600-2T 0/400/350/300-1T		

*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.