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Micro inverter Hoymiles HMS-2000

By Antonio 20210812

HMS-2000

Highest-powered microinverter with output power up to 2000VA.

Independent MPPT and monitoring makes greater energy harvest and easier maintenance.

With Reactive Power Control, meets the requirements of EN50549-1:2019, VDE-AR-N 4105:2018, UL1741, ABNT NBR 16150, etc.

Each microinverter supports up to 4 modules, faster installation and lower cost.

Safer for rooftop solar stations with rapid shutdown，compliant and isolated transformer.

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

Technical Specifications

	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)	22					
Operating voltage range(V)	16~60					
Maximum input voltage(V)	60					
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)	220/180-275 [1]	230/180-275 [1]	240/180-275 [1]	220/180-275 [1]	230/180-275 [1]	240/180-275 [1]
Nominal frequency/range(V)	50/45-55 [1] or 60/55-65 [1]					
Power factor(adjustable)	>0.99 default 0.8 leading...0.8 lagging					
Total harmonic distortion	<3%					
Maximum units per 10AWG branch [2]	3	4	4	3	3	3

DTU-Pro-S

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*

DTU-PRO-S

Technical Specifications

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]	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, 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	

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Accessories

AC Trunk Connector

AC Trunk End Cap

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

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

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Installation tools

AC Trunk Port Disconnect Tool

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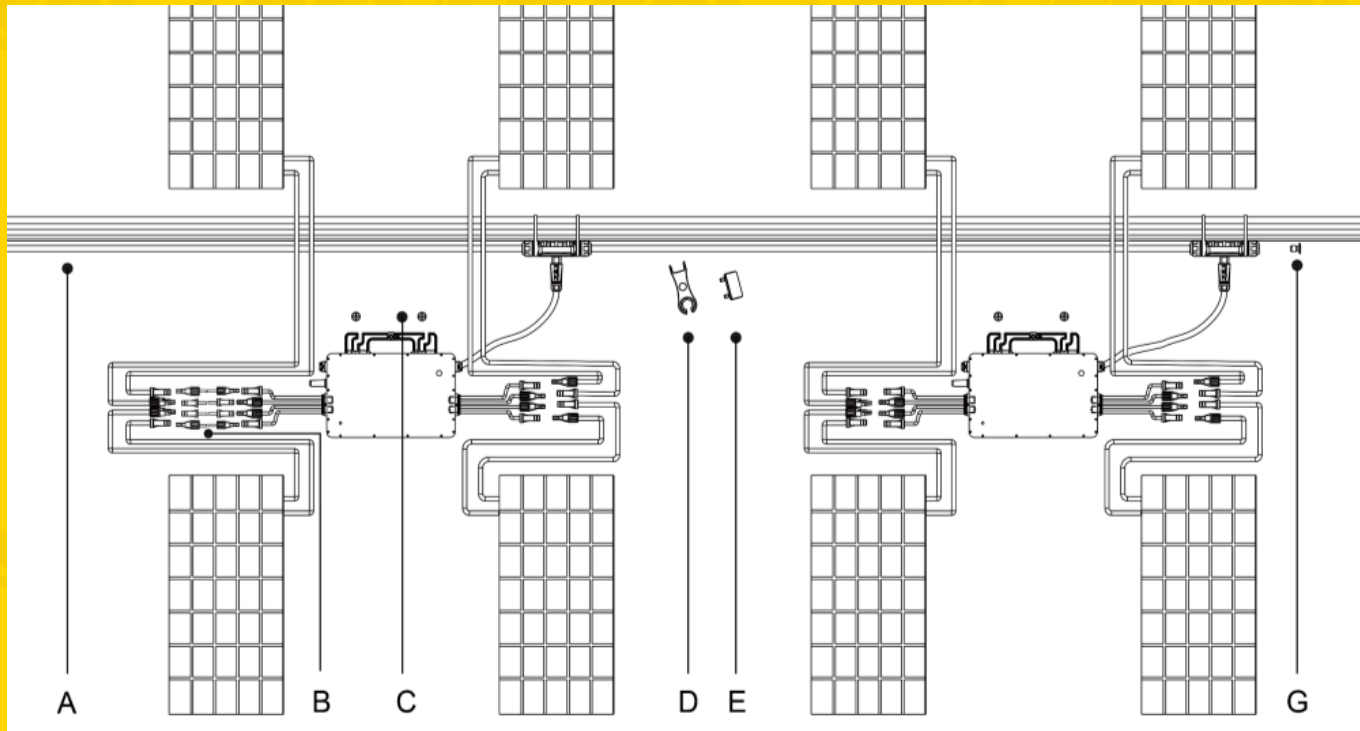
AC Trunk Connector Unlock Tool

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

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Installation

Item	Description
A	AC Bus Cable, 12/10 AWG Cable
B	DC Extension Cable
C	M8*25 screws
D	AC Trunk Port Disconnect Tool
E	AC Trunk Connector Unlock Tool
G	AC Trunk End Cap

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Comparison

MI-1500

DTU-USB

DTU-PRO

AC FEMALE CONNECTOR

AC FEMALE END CAP

ITEM	MI-1500	HMS-2000
AC connecting method	Serials mode	Bus mode
Communication method between Microinverter and DTU	2.4G RF	SUB-1G
Monitoring	DTU-USB or DTU-PRO	DTU-PRO-S
AC Connector	AC FEMALE CONNECTOR	AC TRUNK CONNECTOR
AC END CAP	AC FEMALE END CAP	AC TRUNK END CAP
Installation tool	/	AC TRUNK PORT DISCONNECTOR TOOL AC TRUNK CONNECTOR UNLOCK TOOL

HMS-2000

DTU-PRO-S

AC TRUNK CONNECTOR

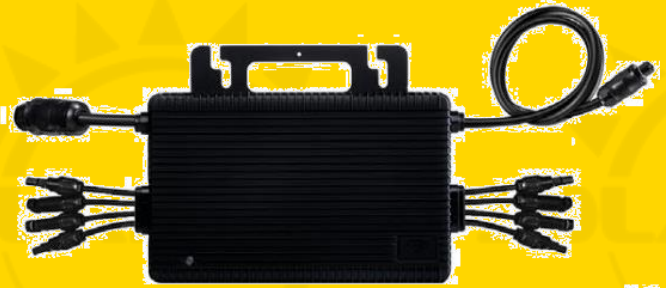AC TRUNK END CAP

AC TRUNK PORT DISCONNECTOR TOOL

AC TRUNK CONNECTOR UNLOCK TOOL

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Code in Bind system

MI-1500

HMS-2000

DTU-PRO-S

AC-TRUNK-HMS-DISC	AC TRUNK PORT DISCONNECT TOOL HOYMILES
HMS-END-CAP-TRUNK	AC TRUNK END CAP HOYMILES HMS-2000
AC-TRUNK-HMS-UNLOCK	AC TRUNK CONNECTOR UNLOCK TOOL HOYMILES
HMS-2000	MICROINVERSOR HOYMILES HMS-2000 220V
AC-TRUNK-HMS	AC TRUNK CONNECTOR HOYMILES HMS-2000
DTU-PRO-S	DATA COLLECTOR HOYMILES DTU-Pro-S (WIFI)

DTU-MI
DTU-MI-2G

DTU-MI-PRO

MI-END-CAP	FEMALE HEAD PROTECTIVE COVER HOYMILES MI
MI-1500	MICROINVERSOR HOYMILES MI-1500 220V
AC-HEAD-MI	AC FEMALE HEAD HOYMILES MI-500-1200-600
DTU-MI-2G	DATA COLLECTOR HOYMILES 2G MI700 MI1200
DTU-MI-PRO	DATA COLLECTOR HOYMILES DTU-Pro (WIFI)

AC-TRUNK-HMS

HMS-END-CAP-TRUNK

AC-HEAD-MI

MI-END-CAP

AC-TRUNK-HMS-DISC

AC-TRUNK-HMS-UNLOCK

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