## HMS-1000W-2T Series Microinverter Quick Installation Guide

Danger

Notice

Applicable for HMS-600W/700W/800W/900W/1000W-2T Microinverters

This installation must be carried out with all devices from the arid.

HMS-1000W series microinverter can be operated on the following grids:

To avoid damaging the microinverter or potential fire hazards, ensure all terminals

are securely tightened with the correct torque when connecting AC and DC cables.

Three-phase, 230 V / 400 V, with Neutral

#### Warning

hoymiles

- Read this guide thoroughly before installation.
  - Operation personnel must wear proper personal protective equipment (PPE). Avoid working with live wires. Ensure that AC and DC wires are not charged before any connection work.
- Adhere to the applicable codes and regulations of the installation site. Hoymiles is not liable for damages resulting from improper installation and use.

#### **Product Application** 0

- The HMS-1000W series can be used in both single-microinverter and multi-microinverter systems.
- A single-microinverter system is a solar power setup with one microinverter and two PV modules, designed for installation on a balcony or an outdoor area.
- A multi-microinverter system consists of multiple microinverters, each microinverter is paired with two PV modules, providing optimized performance.

#### Balcony-Single-Microinverter System



Single-phase, 230 V, with Neutral





\* The product proportions have been modified to improve the depiction of the structure.

#### 1 Preparation

### Output Check the Parts and Tools

Guide & Map uired IS Field nnector	hle	Electrical I	Multi-	crews Cable	Tie Diagona Cutter	al Wire <sup>r</sup> Strippe		rimping HMS D Tool -		ony systems and op systems differ.
IS Field	Plu	6								
1S Field	Plu	6			-					
A ( ( )	hle		Micro-			a de la calcalación de la calc		198	(optional)	
		ug and Play Body	inverter System	HMS Conne Cable		IS Trunk nnector	HMS Cable Connector	HMS Sealing Cap	HMS Extensio Connector	AC Cab
ne Micro	inverte	rs								
For a single-microinverter system, the entire system consists of one microinverter and two PV modules. For a multi-microinverter system, define the number of microinverters per AC output line based on the capacity of the AC cables.				Multi-Microinverter System—Maximum Microinverter Numbers per Line (230 V)						
				2.5 mm <sup>2</sup>	9	7	6	6	5	
				Warning: AC cable ampacity determines the limits, which may vary. Check local codes for the actual limitation						
anical	Instal	ling								
	ne S-Miles Inst e QR code locate or "Hoymiles Inst <b>ne Microi</b> microinverter er and two PV i microinverter ut line based of <b>nanical</b>	The S-Miles Installer Applicate QR code located on the righ or "Hoymiles Installer" on App <b>The Microinverter</b> microinverter system, the er and two PV modules. microinverter system, defi ut line based on the capace manical Install	e QR code located on the right side. or "Hoymiles Installer" on App Store or Goog me Microinverters microinverter system, the entire system er and two PV modules. microinverter system, define the number ut line based on the capacity of the AC manical Installing	The S-Miles Installer Application. To download, e QR code located on the right side. for "Hoymiles Installer" on App Store or Google Play. The Microinverters microinverter system, the entire system consists for and two PV modules. microinverter system, define the number of mic ut line based on the capacity of the AC cables.	ne S-Miles Installer Application. To download, e QR code located on the right side. or "Hoymiles Installer" on App Store or Google Play. <b>Ne Microinverters</b> microinverter system, the entire system consists of one er and two PV modules. microinverter system, define the number of microinverters ut line based on the capacity of the AC cables.	Mult Marker S-Miles Installer Application. To download, a QR code located on the right side. or "Hoymiles Installer" on App Store or Google Play. Mult Mult Model 2.5 mm <sup>2</sup> ut line based on the capacity of the AC cables.	me S-Miles Installer Application. To download,   e QR code located on the right side.   or "Hoymiles Installer" on App Store or Google Play. <b>ne Microinverterss</b> microinverter system, the entire system consists of one er and two PV modules. microinverter system, define the number of microinverters ut line based on the capacity of the AC cables. <b>manical Installing</b>	me S-Miles Installer Application. To download,       Image: Comparison of	me S-Miles Installer Application. To download,   e QR code located on the right side.   or "Hoymiles Installer" on App Store or Google Play.     microinverters   microinverter system, the entire system consists of one   er and two PV modules.   microinverter system, define the number of microinverters   ut line based on the capacity of the AC cables.     Warning:   AC cable ampacity determines the limits, which may vary. Ch	he S-Miles Installer Application. To download, e QR code located on the right side. or "Hoymiles Installer" on App Store or Google Play.          Image: Construction of the entire system consists of one er and two PV modules. microinverter system, define the number of microinverters ut line based on the capacity of the AC cables.       Image: Construction of the entire system consists of one microinverter system, define the number of microinverters ut line based on the capacity of the AC cables.         Image: Construction of the entire system consists of one er and two PV modules. microinverter system, define the number of microinverters         Image: Construction of the entire system consists of one er and two PV modules. microinverter system, define the number of microinverters         Image: Construction of the AC cables.         Image: Construction of the AC cables.     <

a. Position the Microinverter

a. Plan and mark the position of microinverter.

b. Drill holes with an electrical drill.

### Factors to consider

Handrail should be structurally stable and can support the microinverter's weight Avoid uneven, slanted, or rough surfaces.

**b.** Fix the Microinverter

a. Mount and align the microinverter (label side up) with the drilling holes.

b. Fix the microinverter with screws (Torque: 9 N·m).

Given the complexity of balcony installations, consider handrail stability, weight limitations, appropriate mounting methods, and compliance with balcony regulations, and seek professional advice if necessary.



0



-	d.	Make	the	AC	End	Cable
---	----	------	-----	----	-----	-------

a. Before stripping the cable, check and ensure that the HMS Cable Connector can be separated into six parts.

	Notice:	Wire Type	Outdoor Use, Copper Wire
<u> </u>	Specifications for the	Core	Three
	desired AC cable:	Maximum Voltage	600 V
	desired AC cubie.	Cross-Section	≤16.5 mm

- b. Push the parts through the AC cable in the correct order.
- c. Strip off 40±5 mm of the outer jacket with a diagonal cutter. Then, use a wire stripper to strip the insulation, exposing 6-7.5 mm of the conductor.
- d. Insert the conductor into the terminal pin, crimp the connection, and push the crimped cable through the wire holder.
- e. Plug the fixed cable into the HMS Cable Connector. Then firmly tighten the nut using the HMS Disconnect Tool.

### e. Connect the AC End Cable

Connect the AC End Cable to the last HMS Trunk Cable Connector in a series of cables. Listen for a click as they engage.

#### f. Manage the AC Trunk

Adhere for wirii

Use the cable ties to attach all cables to the racking.

# g. Connect to the Distribution Box

Connect the other end of the AC End Cable to the distribution box.

other end of the AC Lifu Ca	DIE U	J the distribut	UIII
ng:	Wire	Colors	
to local wiring codes	L	Brown	
5	Ν	Blue	
ing safety.	PE	Green&Yellow	

## DC Side Electrical Installation

### Complete the Installation Map

- a. Peel off the removable serial number label (located near the antenna) from each microinverter.
- b. Affix the label to the respective location on the installation map.
- c. Record the Wi-Fi AP Initial Password of each microinverter for later configuration.

### Onnect the PV Modules

a. Mount the PV modules above the microinverters.

a. Energize the System

- b. Connect the DC leads of PV modules to the corresponding DC inputs on the microinverters.
  - Warning: Before installing the PV modules, ensure that all microinverters and inter-wiring connections are properly set up.

For the single-microinverter system, connect the other end of Plug

a. Turn ON the AC disconnect or circuit breaker for each AC output line. b. Turn ON the main utility-grid AC circuit breaker. Wait five minutes

> \*The product proportions have been adjusted to enhance the

illustration of the structure.

connections are property s

and Play Cable to the socket. For the multi-microinverter system,

Start-up

# b. Check the LED Status

Check the LED on the connector side of the microinverter.

LED	indicates		
Five green flashes (0.3s gap)	Startup success		
Fast green flashing (1s gap)	Producing power		
Red flashing (1s gap)	Not producing power, AC grid fault (voltage or frequency is not within specification )		



for the system to start producing power.













\*To enhance the clarity of the structure, the product proportions and installation locations have been adjusted accordingly.



tity -≣ Device Lis 30 kw Scan the QR code to access 5 **6** kw 17 more information. P R 1000V 3.2 kl 3.14 kw ③ Plant R Daily Dree (A) Lifetime I **1** kW Carbon Offset 19 0.8 kt 11 kw 1.37 k 0 83 Ø

0 OoD Æ 000 ▦ .