

Installation Guide

Hoymiles MS-A2

1. Packing List



- Immediately contact your supplier or distributor upon noticing any damaged or missing parts.
- In these instructions, the Hoymiles MS-A2 are referred to as "MS-A2" for short.



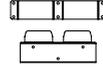
Hoymiles MS-A2
×1



MS Plug-and-Play Cable
×1



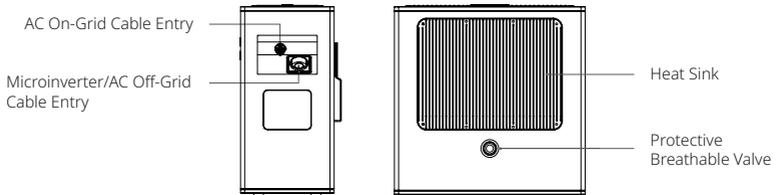
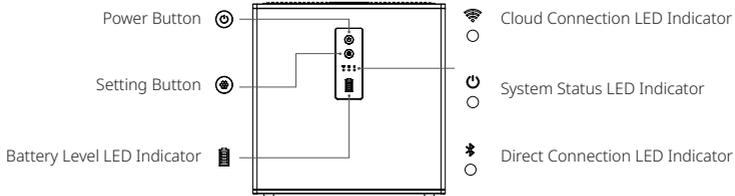
Installation Guide
×1



Mounting Set
×1



2. Product Overview



Button Quick Reference Guide

Button	Action	Function
	Press for 2 seconds.	Turn on the MS-A2.
	Press for 2 seconds.	Turn off the MS-A2.
	Press for 0.5 seconds.	Check the battery level.
	Press for 10 seconds.	Restore the network configuration.
	Press for 5 seconds.	Enable Bluetooth.
	Press for 1 second.	Pair the MS-A2 via Bluetooth.

LED Quick Reference Guide		
	LED Status	Indications
 		Solid blue when connected to the S-Miles Cloud.
		Blinking blue when connected to the router, but not connected to the S-Miles Cloud.
		Off if no network is available.
 		Solid blue when the system status is normal.
		Solid red when the device faults.
		Alternating blinking red and blinking blue when there's an off-grid port fault.
 		Blinking red when overloaded.
		Solid blue when connected to your phone.
 		Off when not connected to your phone.

3. Installation

3.1 Installation Tools



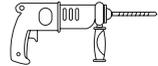
Rubber Mallet



Marker



Electrical Screwdriver (M5, M6)



Hammer Drill (φ8)

3.2 Mechanical Installation



- All installations must adhere to local electrical standards and the national electrical code.
- For safe operation and to avoid damage to the device, observe the following requirements when selecting the installation site.
 - **Basic Requirements:** The installation site must be convenient for electrical connection, operation, and maintenance. Additionally, it must be shielded from direct rainfall and sunlight.
 - **Mounting Structure Requirements:** The installation surface must be suitable for the weight (33 kg), dimensions, and cable length of the MS-A2.
 - **Installation Space Requirements:** To ensure air circulation, the installation site must have sufficient air clearances around the MS-A2. Clearances may vary depending on specific installations, and we suggest a general minimum guideline: maintain at least 3.5 mm clearance to the nearest adjacent sidewall on the up, bottom, left, and right sides.

Method 1 Floor-Mounted

Position the MS-A2 on a flat and stable surface.

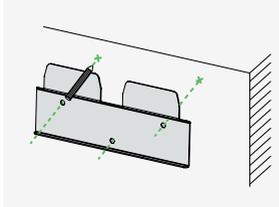
Method 2 Wall-Mounted

A) Choose a location to mount the MS-A2.

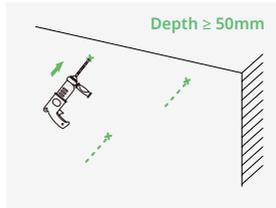
B) Use a level to ensure the wall-mount bracket is completely level. Then mark drilling positions.

C) Drill in the marked positions. (Depth ≥ 50 mm)

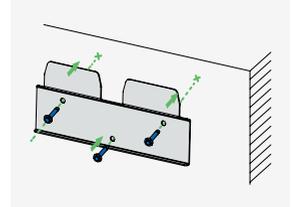
D) Secure the wall-mount bracket to the wall with the M6 \times 50 expansion screws. (Torque: 9 N \cdot m)



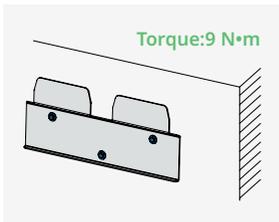
B).



C).



D)-1.

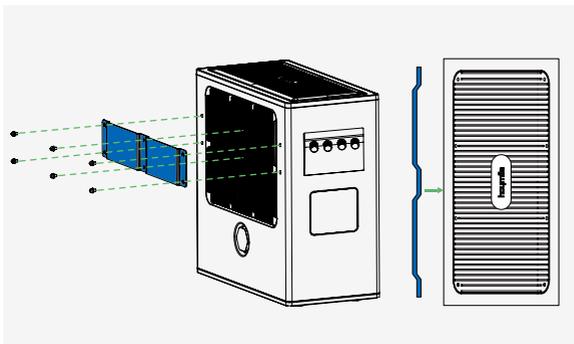


D)-2.

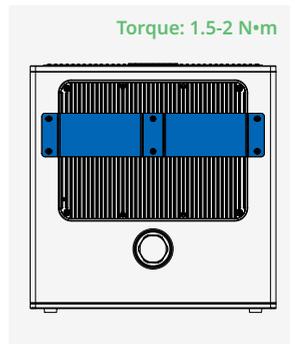


D)-3.

E) Install the other mounting bracket into the MS-A2 and secure them using the M5 \times 10 screws. (Torque: 1.5-2 N \cdot m)

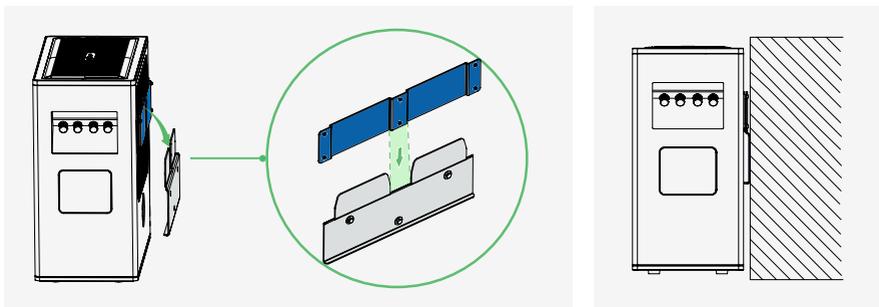


E)-1.



E)-2.

F) Hang the MS-A2 onto the wall-mounted bracket.



F)-1.

F)-2.

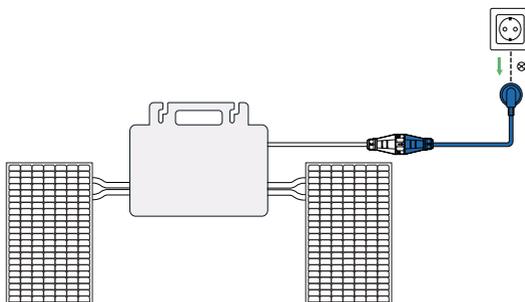
3.3 Electrical Connection

⚠ DANGER!

Before proceeding with the installation make sure the microinverter system is disconnected from the power supply, the solar panels are shaded or isolated, and the MS-A2 is turned off.

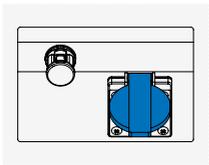
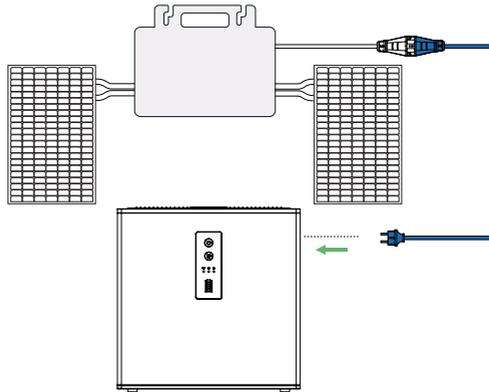
Step 1 Disconnecting the Microinverter System from the Grid

A) Unplug the HMS Plug and Play Cable from the socket.

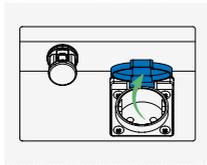


Step 2 Connecting the Microinverter System to the MS-A2

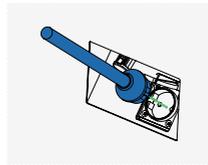
A) Insert the HMS Plug and Play Cable into the AC Off-Grid cable entry of the MS-A2. Listen for a click to ensure proper engagement.



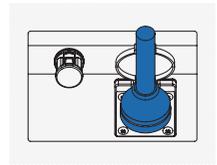
A)-1.



A)-2.



A)-3.

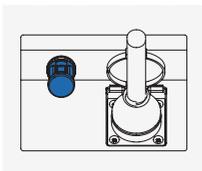
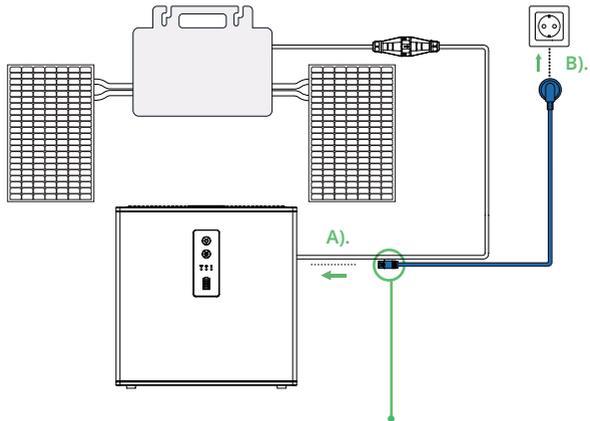


A)-4.

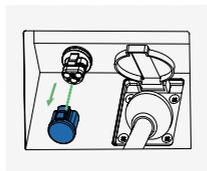
Step 3 Connecting the MS-A2 to the Grid

A) Insert the MS Plug-and-Play Cable into the AC On-Grid cable entry of the MS-A2. Listen for a click to ensure proper engagement.

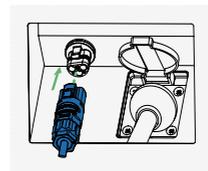
B) Plug the other end of the MS Plug-and-Play Cable into the socket.



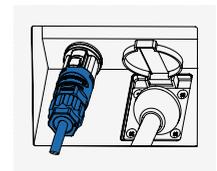
A)-1.



A)-2.



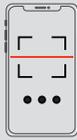
A)-3.



A)-4.

4. Using the MS-A2

- The screenshots provided here are for reference only. The actual screens may vary.
- Install the S-Miles Balcony app on your phone before using the MS-A2. There are two ways to download it:
 - Scan the QR code, or
 - Search for "S-Miles Balcony" on the App Store or Google Play Store.



OR



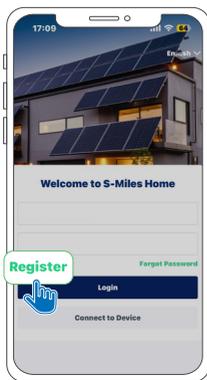
S-Miles Balcony

4.1 Powering on the MS-A2

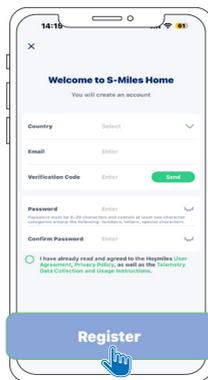
- A) Press and hold the Power Button  for approximately 2 seconds.
- B) Upon powering on, the device status indicator  will blink blue.

4.2 Creating an Account

- A) Open the app and tap the **Register** button.
- B) Enter your details and select the required checkbox. Then tap the **Register** button to complete registration.



A).



B).

4.3 Connecting the MS-A2 to the S-Miles Cloud

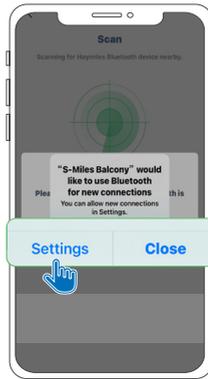
- A) Launch and log in to the app using your credentials.
- B) Go to **Devices > Add Devices**. A pop-up dialog will prompt you to enable your phone's Bluetooth.
- C) Follow the on-screen instructions to connect the MS-A2 to the S-Miles Cloud.



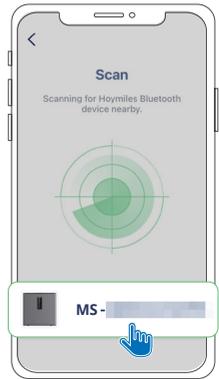
A).



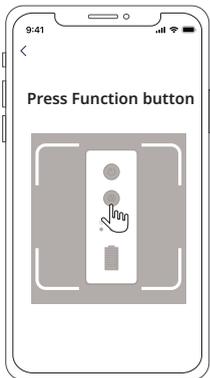
B) -1.



B) -2.



C)-1.



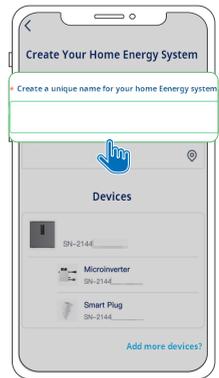
C)-2.



C).-3



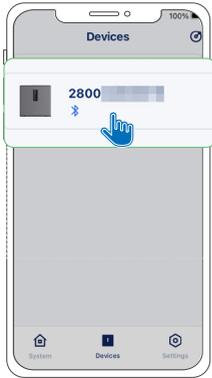
C) -4.



C) -5.

4.4 Setting the MS-A2

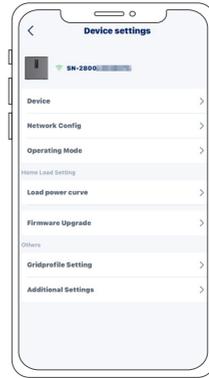
- A) On the **Devices** screen, tap the device. You will be directed to the device homepage.
- B) On the device homepage, tap the setting icon .



A).



B)-1.



B)-2.

C) To set the output power,

- 1) Go to **Device settings** > **Additional Settings**.
- 2) On the **Additional Settings** screen, drag the slider to the right to increase the output power.



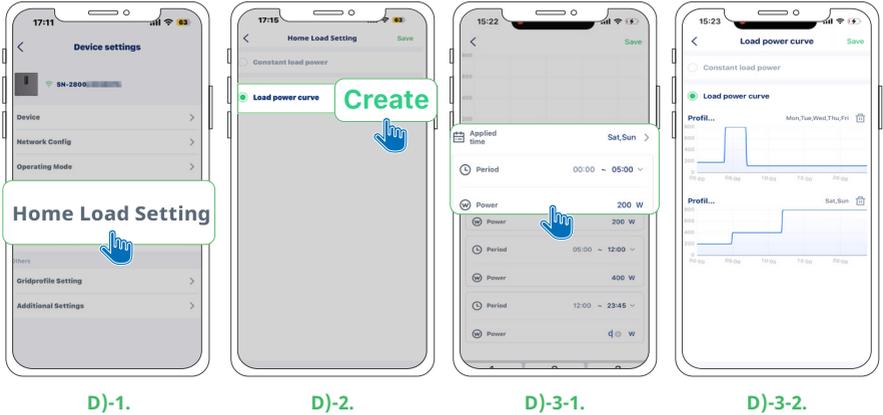
C)-1.



C)-2.

D) To set the load power curve,

- 1) Go to **Device settings** > **Home Load Setting** > **Load Power Curve**.
- 2) Tap the **Create** button.
- 3) Follow the on-screen instructions to set the specific amount of power that the device is required to supply to the load for each day and specific period within that day.



The Home load setting screen offers two options: Constant load power and Load power curve. You can only select one option at a time.



Load power curve setting provides more detailed control over power delivery throughout the day. It allows you to set load power values for specific days and periods. Please note that you can configure up to seven curves and only one curve can be applied per day.

We recommend configuring load power curves to maximize the use of solar energy generated by PV modules.

4.5 Checking the System Performance

A) Tap the **System** icon





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