

User Manual

HiBattery 1920 AC

Contents

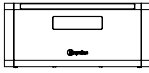
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1. Packing List



NOTICE

- Immediately contact your supplier or distributor upon noticing any damaged or missing parts.
- In these instructions, HiBattery 1920 AC is referred to as "HiBattery AC" for short.



HiBattery 1920 AC × 1



MS Plug-and-Play Cable × 1



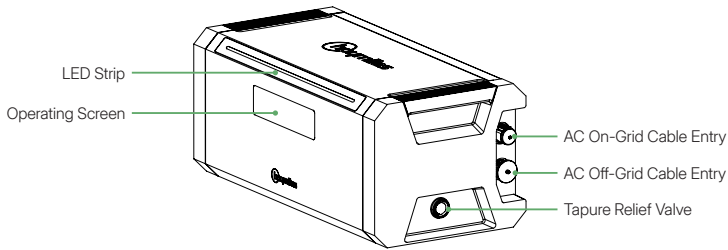
MS Off-Grid Cable × 1



User Manual × 1

2. Overview

2.1 Product Overview

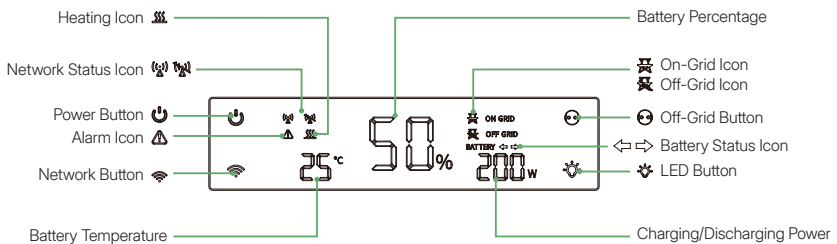


2.2 Operating Screen Overview



NOTICE

To avoid accidentally touching the buttons on the operating screen, you can lock the screen in the App. If you need to power off the device when the screen is locked, tap the power button once, and then touch and hold the power button for 3 s.



Button Quick Reference Guide			
Button	Action	Function	Display
	Touch and hold for 1 to 2s	Power on	The center LED lights up toward both sides, and the screen lights up.
	Touch and hold for 1 to 2s	Power off	The LED on both sides fades toward the center, and the screen goes off.
	Tap once	Pair via Bluetooth	LED strip blinks when waiting for pairing. LED strip stops blinking when paired.
	Touch and hold for 10s	Restore network settings	LED strip blinks for 5 times.
	Tap twice in succession, each for 0.5 to 1s	Restart Bluetooth	LED strip blinks for 2 times.
	Touch and hold for 1 to 2s	Enable off-grid status	 lights up.
	Touch and hold for 1 to 2s	Disable off-grid status	 lights up.
	Tap once	Switch LED color	LED strip cycles through white, green, blue, purple, and cyan with each tap.

Device Status Quick Reference Guide		
Device Status		Display
Network Status	Not connected to the router	 remains on.
	Connected to the router	 remains on.
Off-Grid Status	Off-grid status enabled	 remains on.
	Off-grid status disabled	 remains on.
Battery Heating Enabled		 remains on.
Firmware Updating		LED strip scrolls from left to right, and then reverses and cycles repeatedly.
Sleep Status		LED strip goes off, and only the battery percentage remains on.
Battery Status	Battery charging	LED strip scrolls from left to right, and  lights up.
	Battery discharging	LED strip scrolls from right to left, and  lights up.
Alarm Status		 remains on or blinks.

3. Installation

3.1 Mechanical Installation

Method 1 Floor-Mounted



WARNING

- All installations must adhere to local electrical standards and the national electrical code.
- Shield the HiBattery AC from direct sunlight and rainfall.

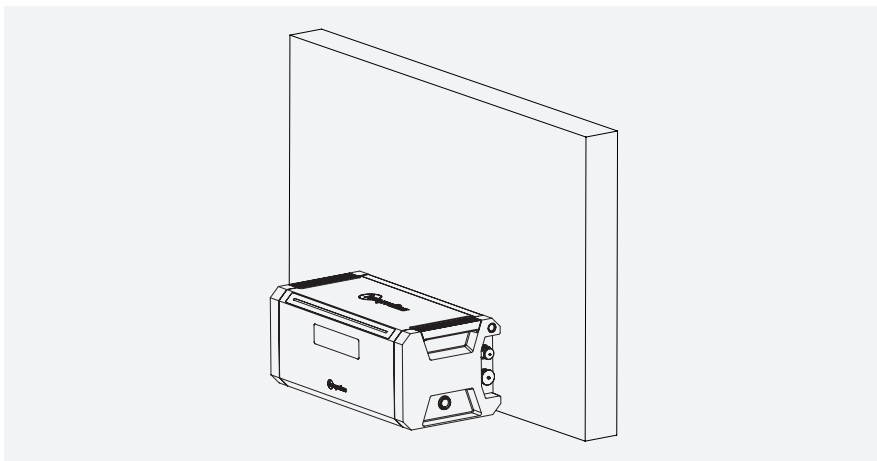


NOTICE

For safe operation and to avoid device damage, observe the following requirements when selecting the installation site.

- The installation site must be convenient for electrical connection, operation, and maintenance.
- The installation surface must be suitable for the weight (24 kg), dimensions, and cable length of the HiBattery AC.
- The installation site must have sufficient air clearances around the HiBattery AC. 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.

Position the HiBattery AC on a flat and stable surface. The back of the device must be separated from the wall by at least 1 cm.



Method 2 Wall-Mounted



NOTICE

The mounting kit (brackets, screws, and expansion bolts) must be purchased separately. You can contact the distributor or email our sales team at sales@hoymiles.com to order the mounting kit.

A) Prepare installation tools.



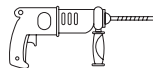
Rubber Mallet



Marker



Electrical Screwdriver (M5, M6)



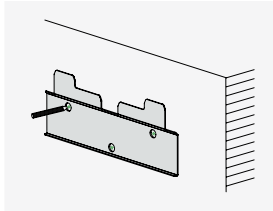
Hammer Drill (φ8)

B) Choose a location to mount the HiBattery AC.

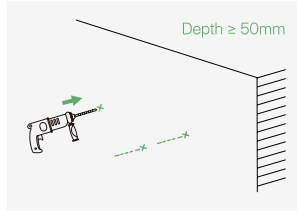
C) Use a level to ensure the wall-mount bracket is completely level. Then mark drilling positions.

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

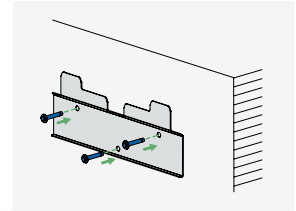
E) Secure the wall-mount bracket to the wall with M6 $\times$ 50 expansion screws. (Torque: 9 N·m)



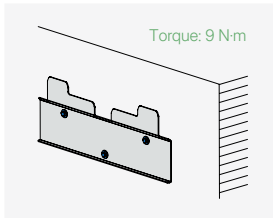
C).



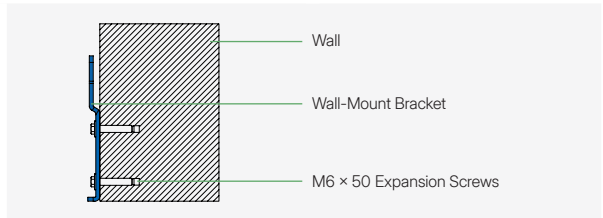
D).



E)-1.

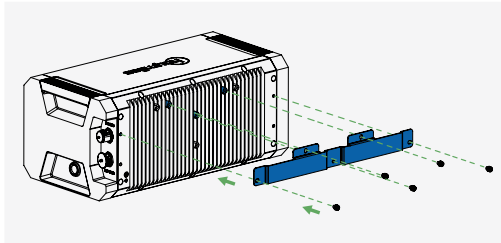


E)-2.

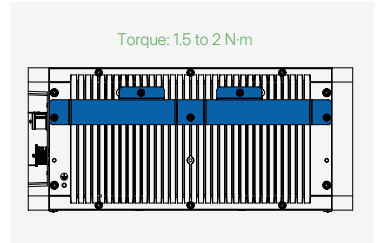


E)-3.

F) Install the other mounting bracket to the HiBattery AC and secure them using M5 $\times$ 10 screws. (Torque: 1.5 to 2 N·m)

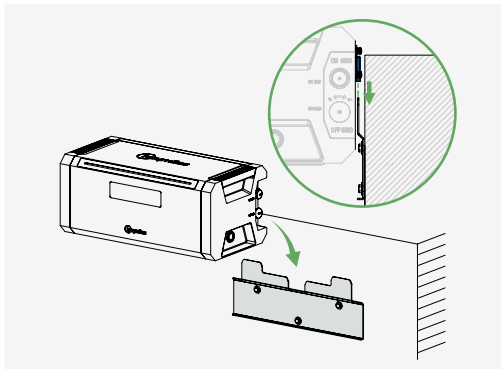


F)-1.

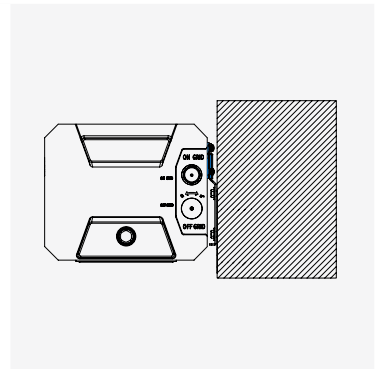


F)-2.

G) Hang the HiBattery AC to the wall-mount bracket.



G)-1.



G)-2.

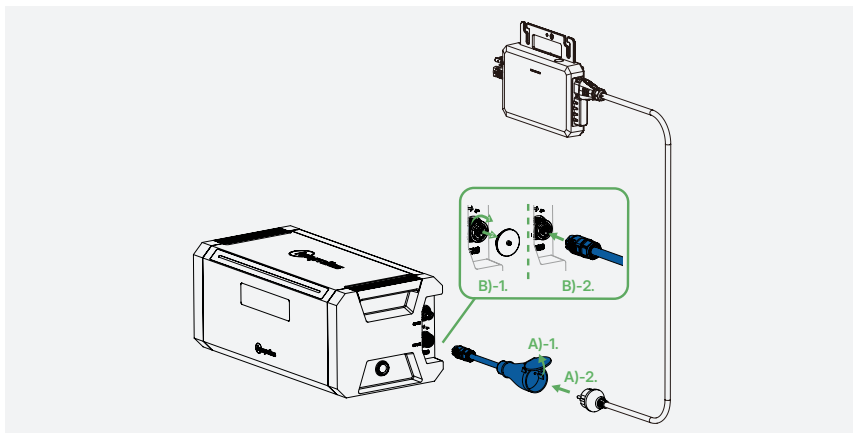
3.2 Electrical Connection



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 HiBattery AC is turned off.

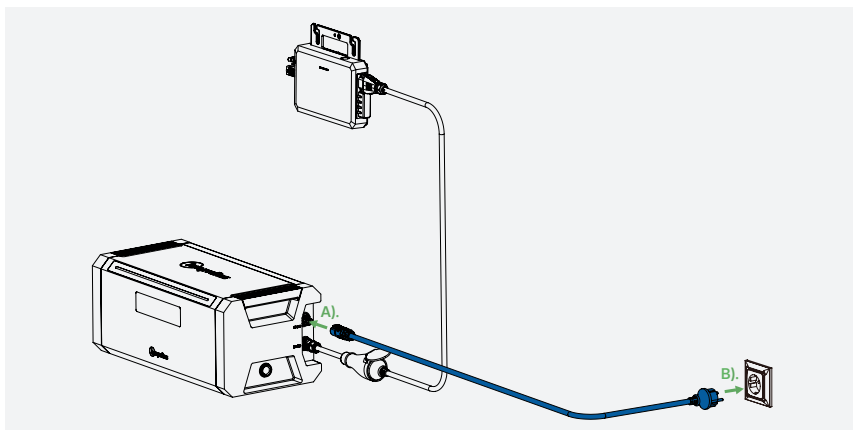
Step 1 Connecting the Microinverter System to the HiBattery AC

- Open the cover of one end of the MS Off-Grid Cable, and insert the AC Cable of the microinverter into the end. Listen for a click to ensure proper engagement.
- Rotate the lock ring of the AC Off-Grid cable entry clockwise, and remove the cap. Then align and insert the other end of the MS Off-Grid Cable into the AC Off-Grid cable entry of the HiBattery AC. Listen for a click to ensure proper engagement.



Step 2 Connecting the HiBattery AC to the Grid

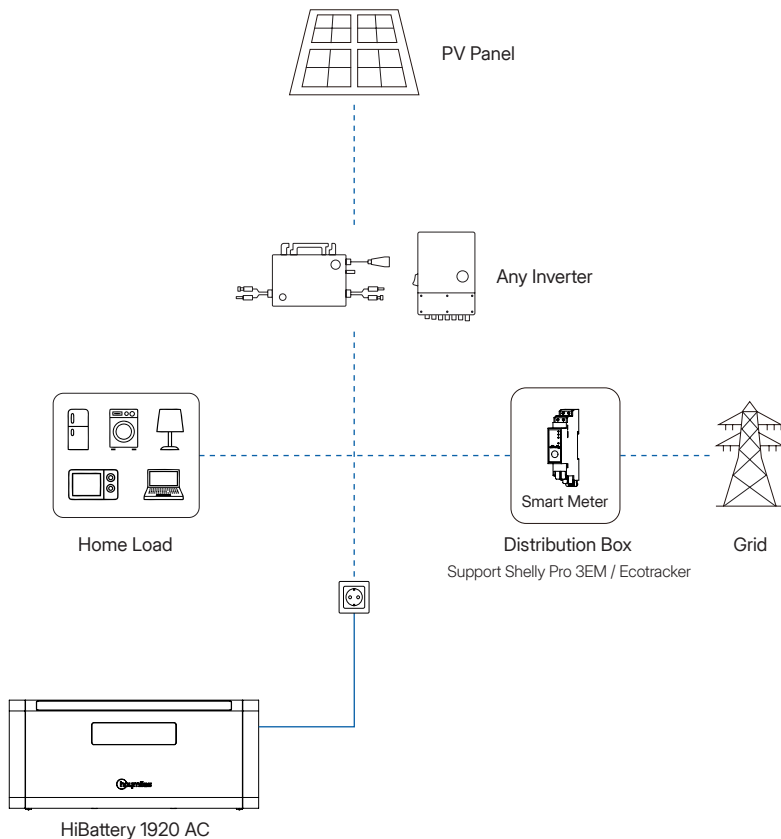
- Align and Insert one end of the MS Plug-and-Play Cable into the AC On-Grid cable entry of the HiBattery AC. Listen for a click to ensure proper engagement.
- Plug the other end of the MS Plug-and-Play Cable into the socket.



Advanced Application: Use as the AC Battery

Fully compatible with all PV systems, the HiBattery AC enables self-consumption mode and AI-integrated TOU mode for smarter energy management. The HiBattery AC can be connected to any socket at home, and the grid smart meter can be integrated into the system to achieve precise energy management.

The application diagram of the home PV system is as follows.



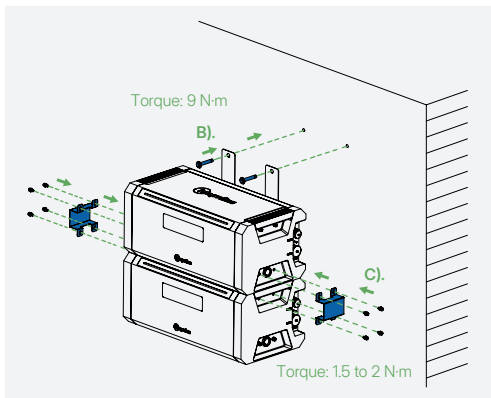
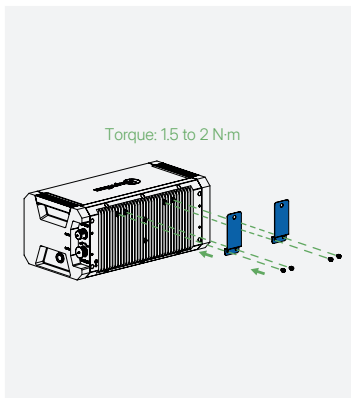
3.3 Connecting Two HiBattery ACs in One System



The parallel connection cable and mounting kit must be purchased separately. You can contact the distributor or email our sales team at sales@hoymiles.com to order.

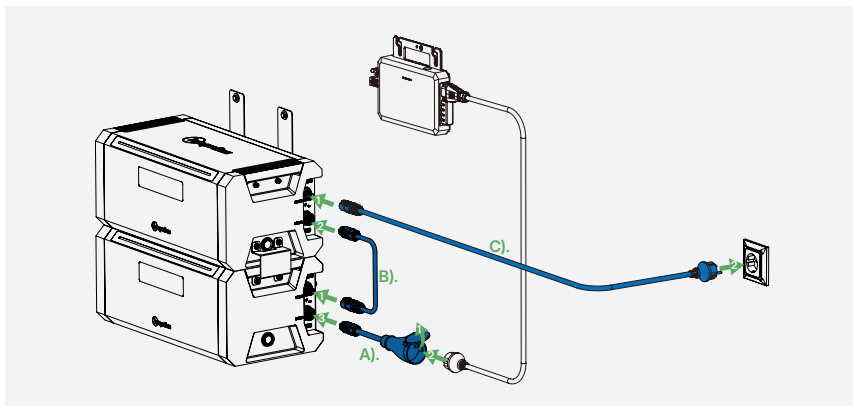
Step 1 Stack HiBattery ACs

- Install the wall bracket to the top HiBattery AC, and secure it with M5 × 10 screws. (Torque: 1.5 to 2 N·m)
- Stack two HiBattery ACs together. Use a level to ensure the two devices are level and aligned vertically, and secure the wall bracket to the wall with M6 × 50 expansion screws. (Torque: 9 N·m)
- Secure the two stacked HiBattery ACs together using two stacking brackets, and secure the stacking brackets with M5 × 10 screws. (Torque: 1.5 to 2 N·m)



Step 2 Wire HiBattery ACs

- Open the cover of one end of the MS Off-Grid Cable, and insert the AC Cable of the microinverter into the end. Rotate the lock ring of the AC Off-Grid cable entry clockwise, and remove the cap. Then align and insert the other end of the MS Off-Grid Cable into the AC Off-Grid cable entry of the HiBattery AC.
- Use the parallel connection cable to connect the On-Grid cable entry of the bottom HiBattery AC and the Off-Grid cable entry of the top HiBattery AC.
- Align and insert one end of the MS Plug-and-Play Cable into the AC On-Grid cable entry of the top HiBattery AC. Plug the other end of the MS Plug-and-Play Cable into the socket.



4. Using the HiBattery AC



The screenshots provided here are for reference only. The actual screens may vary.

4.1 Downloading the App

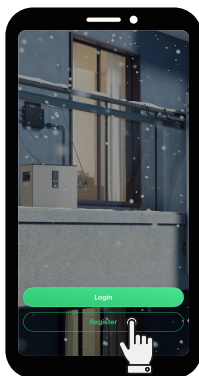
There are two ways to download the S-Miles Home App:

- Scan the QR code on the right side.
- Search for "S-Miles Home" on the App Store (iOS) or Play Store (Android).

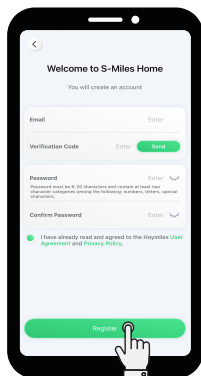


4.2 Creating an Account

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



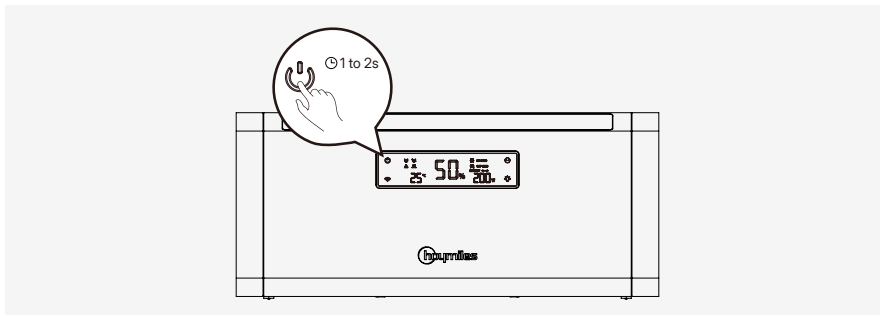
A).



B).

4.3 Powering on the HiBattery AC

Touch and hold the Power Button  for 1 to 2 seconds, the center LED lights up toward both sides, and the screen lights up.

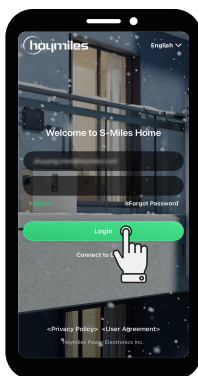


4.4 Connecting the HiBattery AC to Wi-Fi

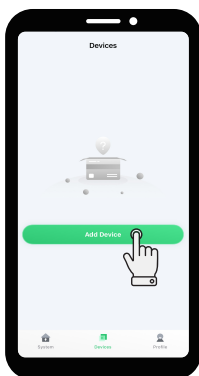


Make sure the Bluetooth is turned on, and the Wi-Fi network signal is stable. Do not place the HiBattery AC too far away from the router.

- A) Launch and log in to the app using your credentials.
- B) Tap **Devices** > **Add Device**.
- C) Tap the HiBattery AC to be added, and follow the prompts to pair your phone to the HiBattery AC.
- D) Select or enter your home Wi-Fi name and enter the password. Then tap **Next** to connect the HiBattery AC to Wi-Fi. When the connection is successful, tap **Next**.
- E) Fill in the required information, and tap **Confirm** to create a home energy system.
- F) If you only need to add one HiBattery AC, tap **Finish**.



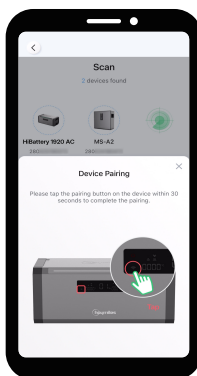
A).



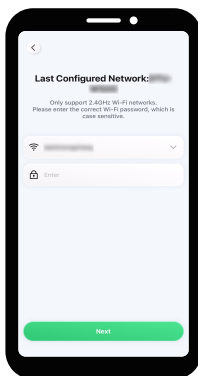
B).



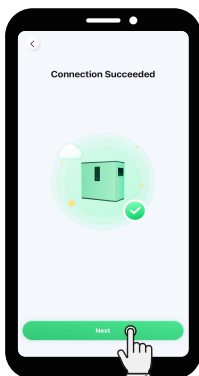
C)-1.



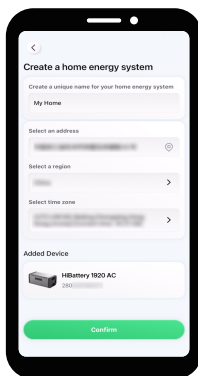
C)-2.



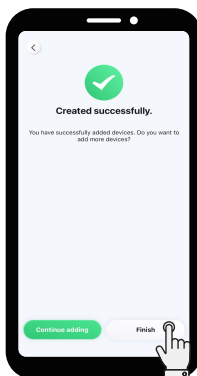
D)-1.



D)-2.



E).



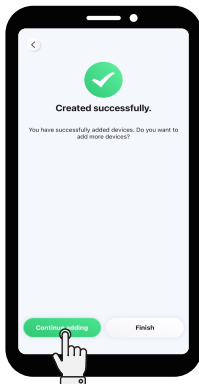
F).

4.5 Adding Two HiBattery ACs in One System



The two HiBattery ACs should be configured to the same Wi-Fi network.

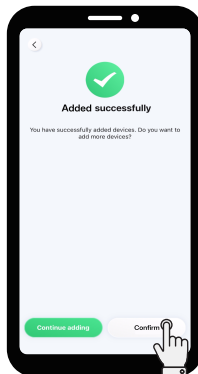
- If you need to add two HiBattery ACs in one system, tap **Continue adding** after system creation.
- Repeat steps C to D in [4.4](#) to connect the other HiBattery AC.
- Tap **Start** to establish communication between HiBattery ACs.
- Tap **Confirm** to finish adding.



A).



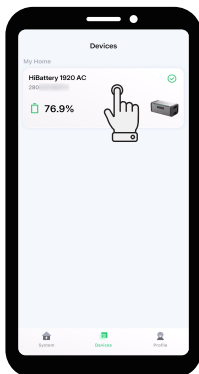
C).



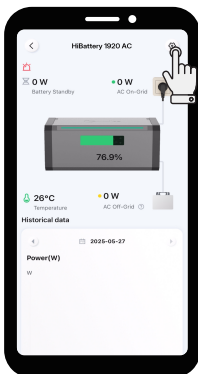
D).

4.6 Upgrading the Firmware

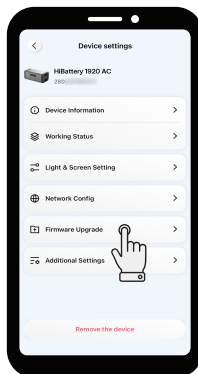
- Tap **Devices** > **HiBattery 1920 AC** > **Device settings** .
- Tap **Firmware Upgrade** to check the version, and upgrade the firmware if needed.



A)-1.



A)-2.



B).

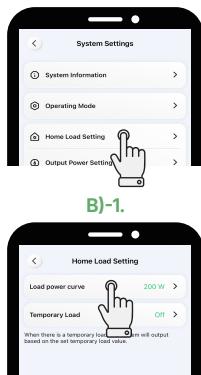
4.7 Setting Up the Load Power Curve and Output Power

Setting the Load Power Curve

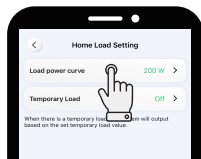
- Tap **System** > **System Settings** .
- Tap **Home Load Setting** > **Load power curve**.
- Tap the curve to be set.
- Choose the day for which you want to set up the load power curve. Divide the day into different periods and enter the load power value for each period. Then Tap **Confirm** to save your setting.



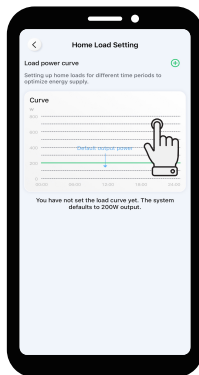
A).



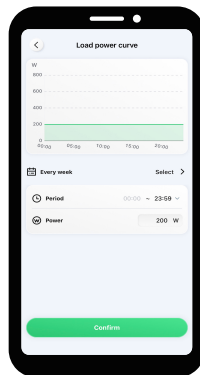
B)-1.



B)-2.



C).



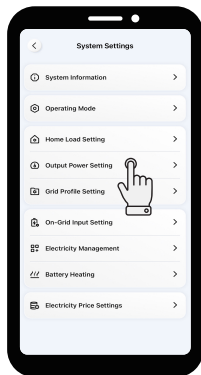
D).

Setting the Output Power

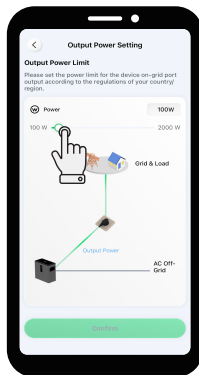
- Tap **System** > **System Settings** .
- Tap **Output Power Setting**.
- Drag the slider to set the desired output power, and tap **Confirm** to save your setting.



A).



B).



C).



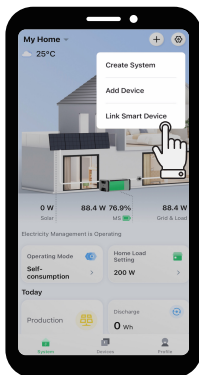
The load power curve setting provides more detailed control over power delivery throughout the day. You can configure up to seven load power curves but only one curve can be applied per day. We recommend configuring load power curves to maximize the use of solar energy generated by PV modules.

4.8 Adding Smart Devices

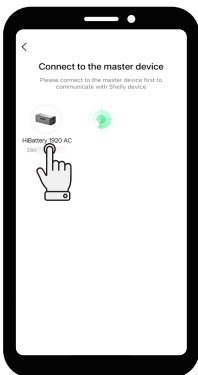


- The Shelly device should be configured to the same Wi-Fi network as the HiBattery AC.
- A system can add up to five Shelly devices, and only one smart meter can be added, which is added by default on the grid side.

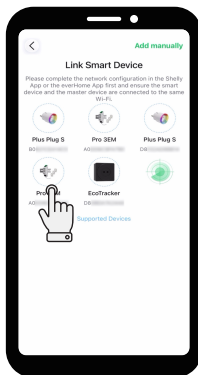
- A) Tap **System** > + > **Link Smart Device**.
- B) Tap the HiBattery AC.
- C) Tap the smart device.
- D) When all smart devices are added, tap **Finish**.



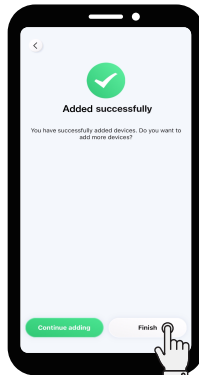
A).



B).



C).



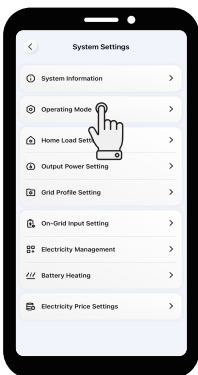
D).

4.9 Setting the TOU Mode

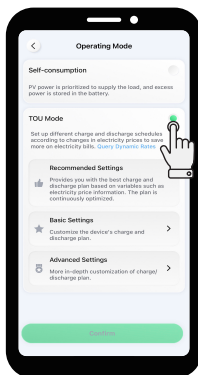
- A) Tap **System** > **System Settings** .
- B) Tap **Operating Mode**.
- C) Select the TOU mode.



A).



B).



C).

D) Select one setting mode.

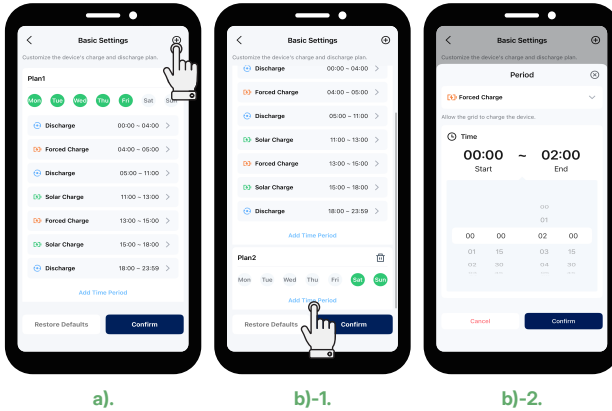
- **Recommended Settings**

It can provide you with the best charge and discharge plan based on different variables and you don't need to set anything.

- **Basic Settings**

a) Tap **+** to add a new plan, or edit the default plan.

b) Tap **Add Time Period** to set charge and discharge periods, and tap **Confirm** to save your settings.

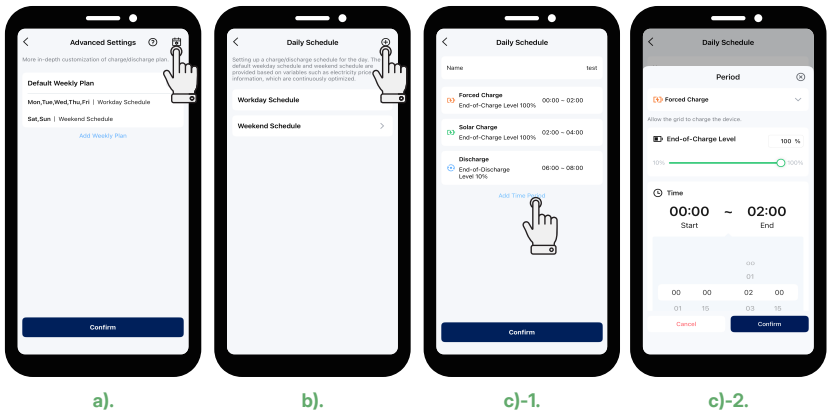


- **Advanced Settings**

a) Tap **Daily Schedule**

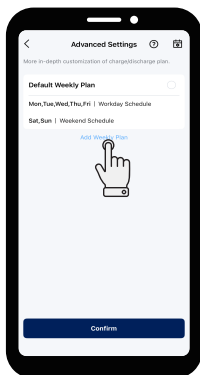
b) Tap **+** to add a new schedule.

c) Tap **Add Time Period** to set charge and discharge periods, and tap **Confirm** to save your settings.

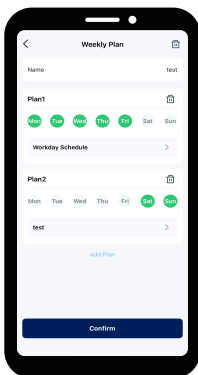


d) Go back to **Advanced Settings**, and tap **Add Weekly Plan** to select the schedule. Then tap **Confirm** to save your settings.

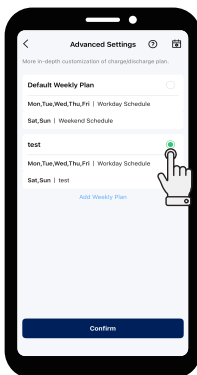
e) Select one plan and tap **Confirm**.



d)-1.



d)-2.

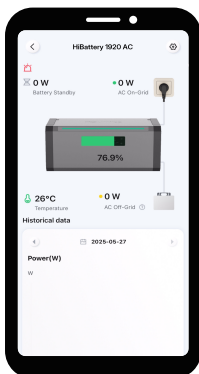
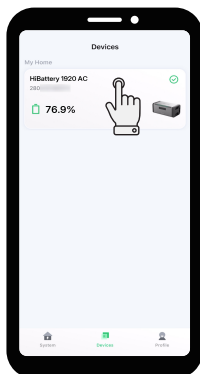


e

4.10 Checking the HiBattery AC and Energy System Performance

• Checking the HiBattery AC Performance

Tap **Devices** > **HiBattery 1920 AC**.



• Checking the Energy System Performance

Tap **System**.



5. Storage and Maintenance

The following requirements should be met if the HiBattery AC is not put into use directly:

- Keep the HiBattery AC on a flat surface when storing it.
- Clean the HiBattery AC and its components only with a cloth or a soft brush moistened with clean water.
- For the best preservation of battery life, charge it regularly. Even if you're not using the battery, periodically charge it every few months.
- Check the battery enclosure and connectors for damage or corrosion regularly to ensure they work properly.
- If you're storing the battery for a long time, charge the HiBattery AC to 40%-50% at room temperature before storing it.