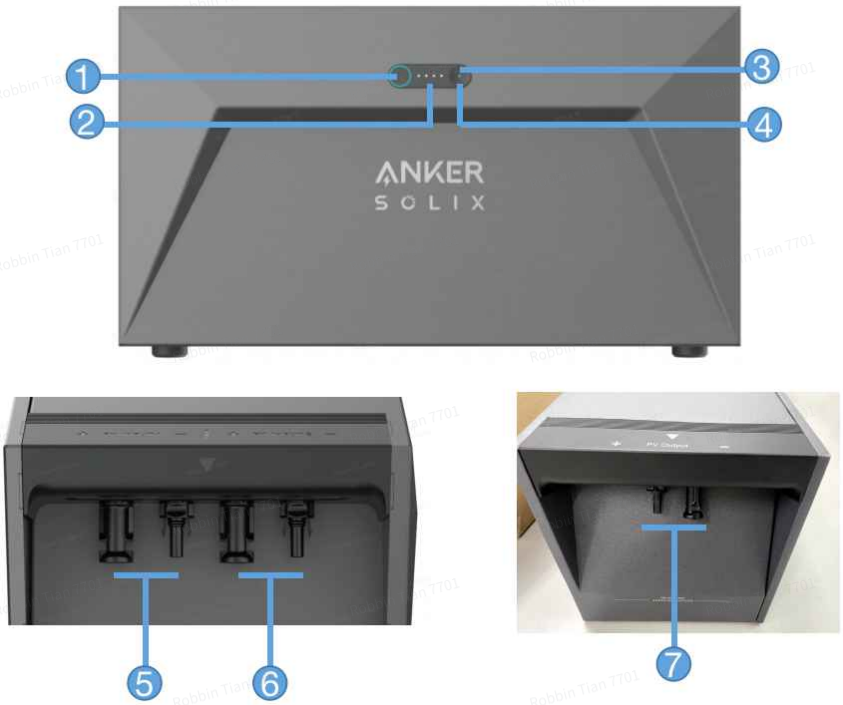
Solarbank Dual System Installation Instruction

Overview



① Power button

② Power status LED

③ IoT button

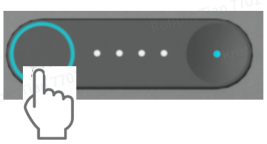
④ IoT status LED

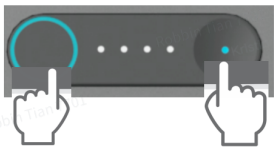
⑤ MC4 terminals for PV input 1

⑥ MC4 terminals for PV input 2

⑦ MC4 terminals for PV output

Button Controls

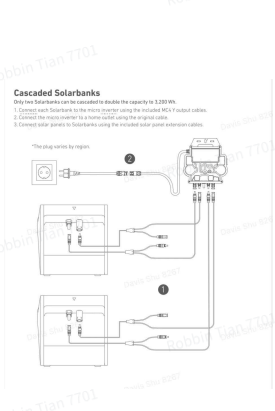
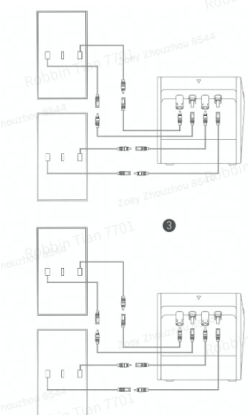
Button	Action	Function
	Press for 2 seconds	Turn Solarbank on
	Press for 2 seconds	Turn Solarbank off
	Press once when powered on	Check current battery level
	Press once	Enable Internet connection
	Press for 2 seconds	Disable Internet connection

	Press for 7 seconds	Reset Bluetooth and Wi-Fi
	Simultaneously press for at least 15 seconds	Reset Solarbank

LED Guide

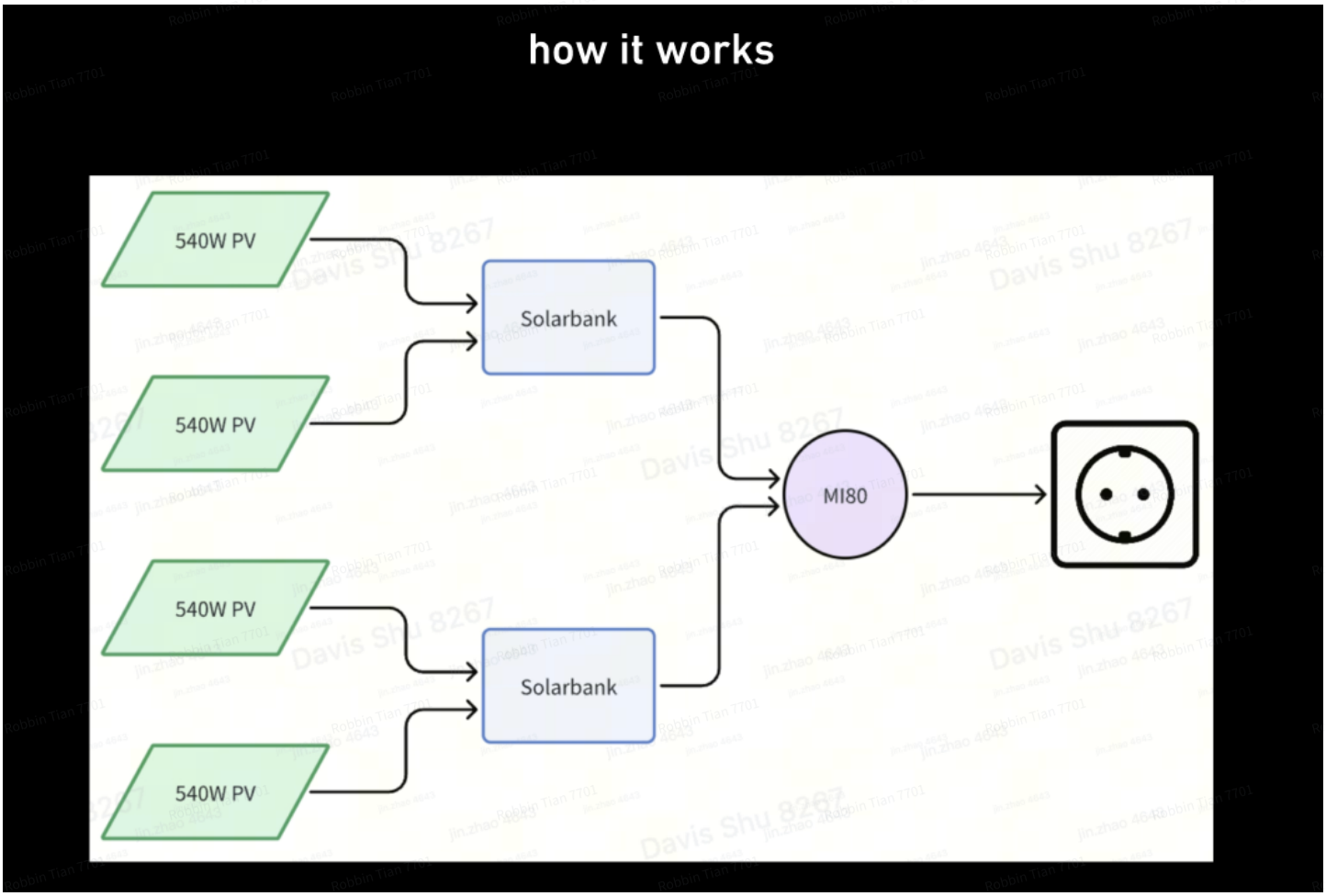
LED	Indication	Status
	Breathing white	Being charged
	Steady white(last 2min)	Current battery level
	Flashing green	Disconnected to the Internet
	Steady green	Connected to the Internet
	Light off	Connection disabled
	Flashing red	Malfunction warning

How to connect

1-Connect-Solarbank-Micro inverter	2-Open	3-Download APP	4-Network Configuration
 	• Long press the main switch button for 2s		follow the instructions on the APP: • Connect to the Internet • **Establish a home system** • Transfer energy • **Check energy data**

	• Switch on light display: 4 white lights and 1 green light blink 3 times and then enter the power display and network state respectively.		

Note：Solarbank dual system only supports one micro inverter，can not support two micro inverter



Way to connect dual system

Only two Solarbanks can be cascaded to double the capacity to 3,200 Wh.

1. Connect each Solarbank to the micro inverter using the included MC4 Y output cables.

2. Connect the micro inverter to a home outlet using the original cable.

3. Connect solar panels to Solarbanks using the included solar panel extension cables.

Using the App

Anker App for Smart Control

Download the Anker app to get full functionality of your Solarbank.

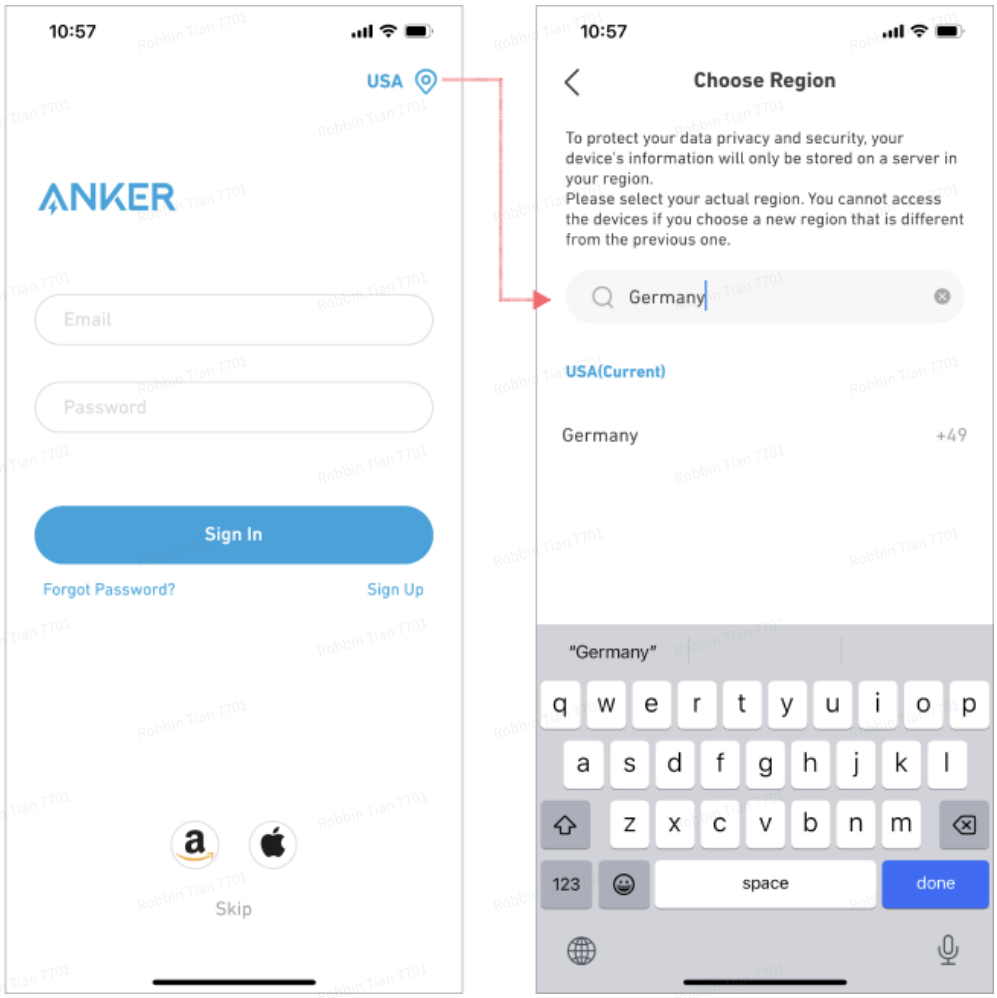
1. Download the Anker app from the App Store (iOS devices) or Google Play (Android devices), or by scanning the QR code. After installing the app, sign up for an account.

2. Follow the on-screen instructions to complete the setup.

- **Connect to the Internet**: To remotely interact with your home system, connect your Solarbank to the Internet via Wi-Fi 2.4G or Bluetooth 4.0 network.
- **Establish a home system**: Create a home system or join an existing one. You can monitor energy flow and make an energy plan for your home.
- **Transfer energy**: Customize your energy usage and storage preferences by period.
- **Check energy data**: Get insight into your system's energy generation, usage, and storage with energy graphs.

3. When the app is successfully launched, you will be directed to the login page.

Please be reminded that the country region MUST match where you live. An incorrect country region may cause a device connection failure.



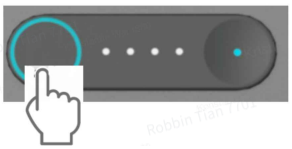
4. You can login via an Anker account, Amazon, or Apple ID.

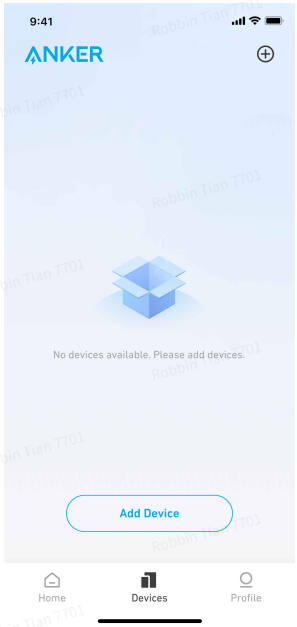
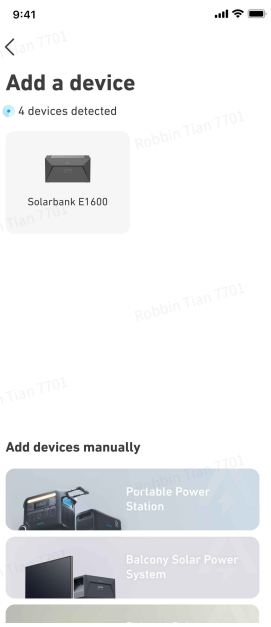
   If you do not have an Anker account, you can tap [Sign Up] to register:

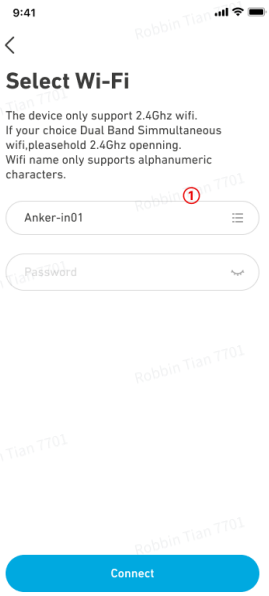
- Please prepare an email for the registration process. Passwords must contain 8-20 characters, uppercase and lowercase letters, numbers, and symbols.

Network Configuration

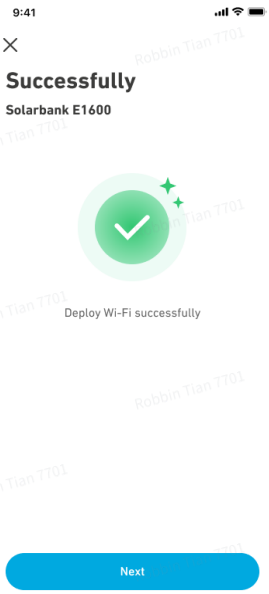
Before configuring, please ensure the network is working well. Keep good quality Wi-Fi signal strength and do not place the device too far away from the router.

Step 1		1. Press and hold the left button on the device for 2 seconds. Turn on your Solarbank.
Step 2		2. Press the right button on the device. Enable Wi-Fi mode. ◦ When the green light flashes, the device is in configuration mode.

		◦ If the device has configured Wi-Fi, and you wish to change the network, you may hold this button for 7 seconds to reset the Wi-Fi.
Step 3		1. Keep the devices on, 2. Tap [+] or [Add Device] at the top right corner of Devices page
Step 4		1. The app will automatically search for your Solarbank. Once the device is found, it will appear on the list. ◦ Please make sure your mobile Bluetooth is on, and the app is authorized to access Bluetooth and Wi-Fi. ◦ If you wish to manually search for the device, you could tap [Balcony Solar System] in the "Add devices manually" row.
Step 5		1. After connecting Solarbank via Bluetooth, you need to choose a network for the device. Select a network from the list and enter the password. ◦ The device only supports 2.4Ghz Wi-Fi. ◦ Make sure the password is correct.



Step 6



1. Your solarbank has successfully configured the network.

   If the configuration process fails, you can troubleshoot below:

   - Is the network working normally?
   - Is the device close to the router?
   - Is your Wi-Fi password entered correctly?

Micro-Inverter Adaptation

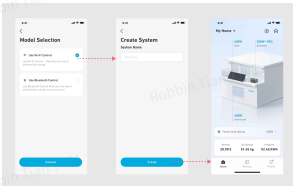
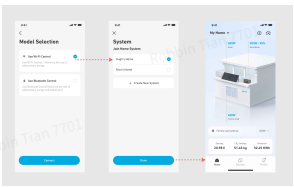
Step 1

In order to optimize the working compatibility between the devices in the system, you need to select the brand and model of the Micro inverter that will be used with Solarbank, and upgrade Micro inverter with necessary firmware.

- Selecting a brand
- Select model

Step 2

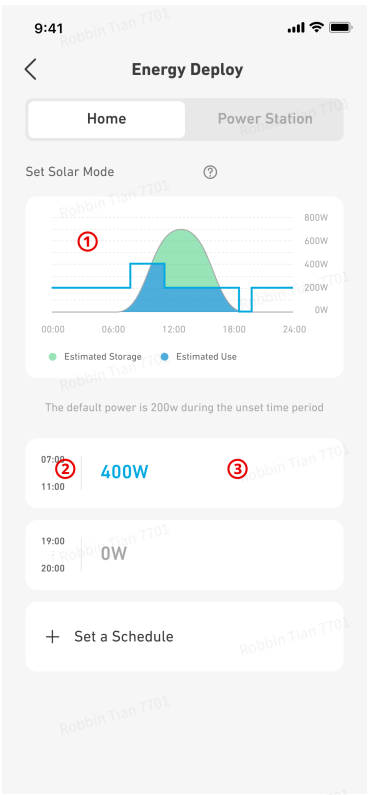
If you choose Anker MI80 Inverter, you need to scan the SN code of Micro inverter through your mobile phone camera to get the firmware upgrade information:

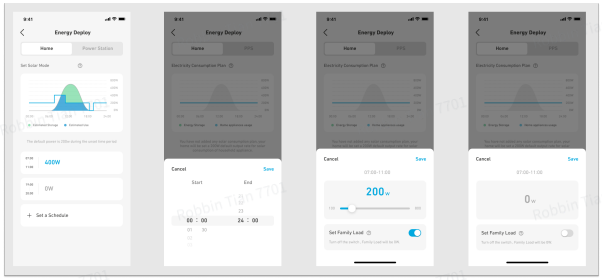
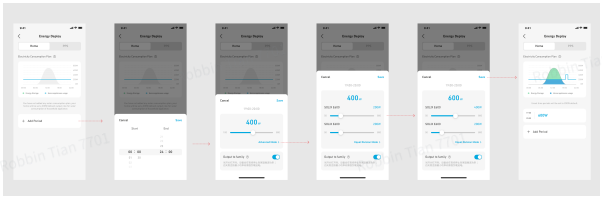
		• Before upgrading, please make sure that the WiFi connection between Solarbank and MI80 is normal and in a good network environment • Before upgrading, please make sure the remaining battery power of Solarbank is more than 20%. • During the upgrade process, please make sure that Solarbank and MI80 are turned on normally. Please note that MI80 may have the risk of shutting down when there is no PV input.
Step 3		After completing the firmware upgrade, you can choose whether to use WiFi mode for control use or Bluetooth mode for near-field control use: • If you choose WiFi mode, you can choose to build a power plant and view the real-time flow data and the historical statistical data of the power plant in the flow chart of the power plant. • If you choose Bluetooth near-field control mode, you can set policies and view real-time data for Solarbank without WiFi network, but you can't set up a power plant for Solarbank or view historical statistical data.
Extra 1		If a Solarbank power station currently exists and you wish to add another Solarbank to that power station for dual system use: • After completing the WiFi mode selection, the available power stations will appear. • Select the corresponding station and click Finish, then you can parallelize two Solarbanks to the same station. • Note: When two Solarbanks are connected to the same power station, you need to make sure that the two microreverses are connected to the same micro inverter, and if the currently connected micro inverter is MI80, you need to make sure that the SN code of the same MI80 is scanned during the opening process.
Extra 2		Alternatively, you can add another Solarbank that has already been bound to your account to your power plant on the homepage: • Click the [Settings] button in the upper right corner of the home page of the power plant. • Click [My Home Info]. • Click [Manage Devices].

		• Click [+] in the upper right corner to enter the process of adding devices.

Family Load Power Rate

When solar energy is produced, the power will flow to your home load usage, Solarbank storage, and the grid. You may set family load power rates to limit solar energy output during a specified time, so that energy could be effectively used by your family instead of being consumed by the grid. The extra energy will be stored in your Solarbank.

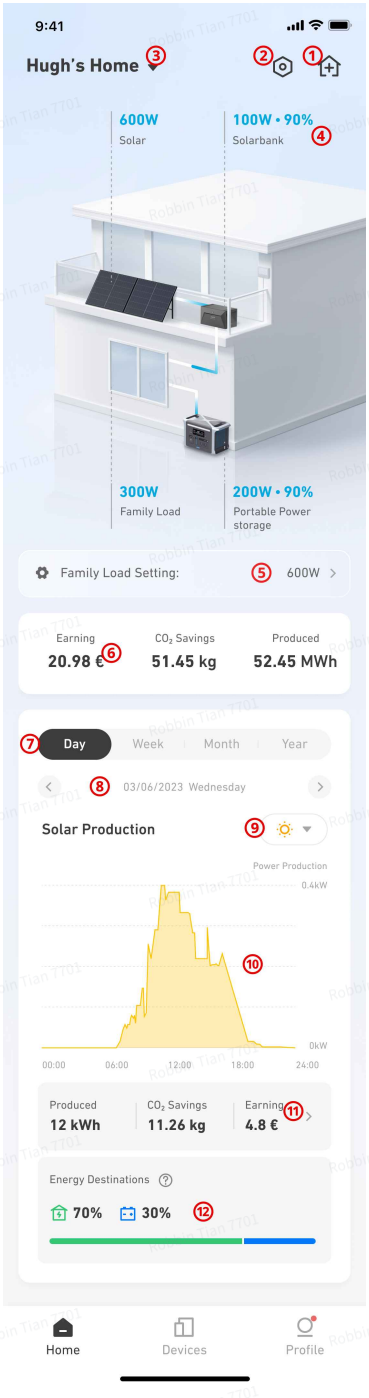
Overall		1. Explaining the Daily Energy Usage Screen: ◦ Blue line: The home load power rate. Modify it in the setting below. ◦ The curve: Solar energy produced the day before. Note that weather changes may affect solar energy production. This curve is for reference only. ◦ Green area: Estimated solar storage in Solarbank. ◦ Blue area: Estimated solar energy consumption, including the home load and grid. 2. Time frame: You can schedule how much power is used during each time period. 3. Family load power limit: Set a limit on solar energy consumed by your home and the grid. You can customize the rate for each time period. After modifying, the plan [Picture 1] will change to reflect your changes
Add Time Period Change Power Rate		1. You can tap [Set a schedule] below to add a time period. Each clip has a default rate of 200W.

		2. You can edit the power rate by tapping the schedule section → [set power] in each time period.
sual-system power setting		If there are two Solarbanks in the current power station and the bound micro inverter is MI80, customized power settings for Solarbanks are allowed separately in the power setting item: • Click [Advanced Settings] to expand the total power value setting item to separate the setting item • Set the output power of each Solarbank individually. After setting, the total power setting value is the sum of the two Solarbanks' respective settings. • If you want to switch to equalization mode, click [Equalization Mode], then the two Solarbanks will be set to 1/2 of the total power value.

Home statistics

When a home system is established, you can view and check power flow and statistics on your [Home] page.

Scene 1		1. Create a new home system or add a device to your current home system.
		2. Go to Home setting.
		3. Select a home system (if you have multiple homes).
		4. The energy flows from each device in the home
		  ◦ You may tap the Solarbank picture to check the device status.
		  ◦ If there's an error, you will see a mark by the device.
		5. Home load setting: This shows the solar energy limit you've set for your home during the current time period. You can tap it to go to the home load setting page.



6. See the total amount of electricity savings, CO_2 emissions reduced, and solar energy production generated by your home system.

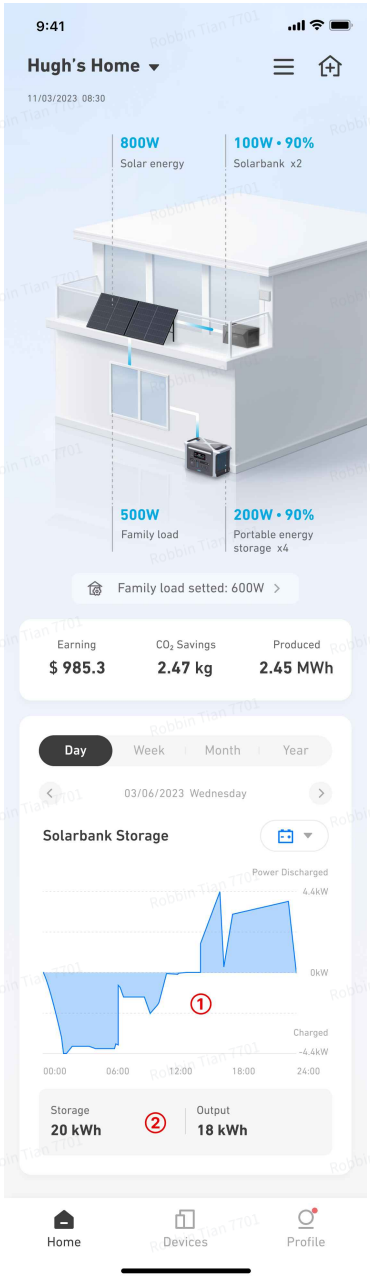
The trend map shows the statistics of devices during a certain period of time:

7. Change the data period to day/week/month/year.
8. Check the previous / next time period.
9. View data trends of solar production, Solarbank, and portable power stations (if trends are detected).
10. Graph showing electricity savings, CO_2 emissions reduced, and solar energy generated by solar panels during the current time period.
11. Distribution of solar power in your home system, either used or stored.

Scene 2

When checking Solarbank data:

1. The trend map will show the charging (negative) and discharging (positive) power rate of the device.
2. The total storage and output of Solarbank during the selected time period.

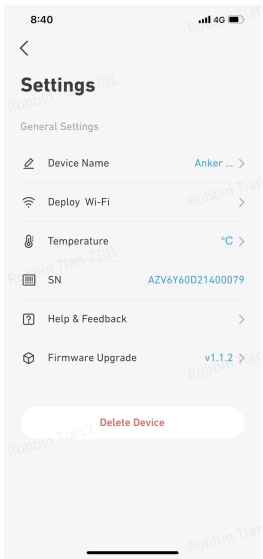


Firmware Update

- If the necessary firmware upgrade version exists, an OTA firmware version upgrade can be performed through the following process

Step 1		1. Go to 「Device」 Page 2. Tap Solarbank

1. On the device status page, tap 「Setting」 button (nut icon) in the right-top corner.

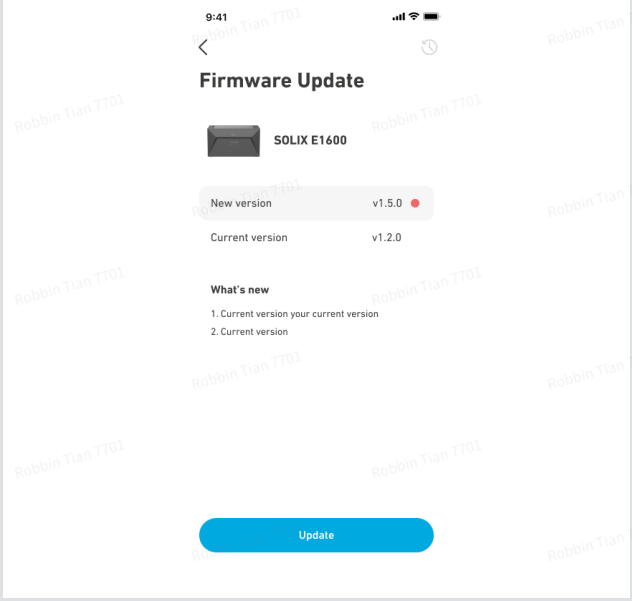


1. If there is a new firmware version available, the 「Firmware Upgrade」 will show a red dot, tap 「Firmware Upgrade」 and go to the firmware update page.

2. Tap 「Upgrade」 to update your device.

Please note:

1. Make sure the remaining battery power of the device is above 20%.
2. Make sure the device is in a good Wi-Fi environment.
3. During the update process, do not close the Anker app, or leave the update page.



4. During the update process, do not operate the device, or pull out any wires from your device.

Storage and Maintenance

For optimal performance, follow the instructions below to store and maintain your Solarbank regularly.

- Keep the product on a flat surface when using, charging, and storing.
- Use a cotton cloth and water to clean. Do not use steel wool or other hard materials for cleaning.
- For long-term storage, charge and discharge Solarbank once every 3 months (discharge Solarbank to 20%, then recharge it to 80%).