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Haier HH3P-12K Smart Cube User Guide



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Overview

Introduction

This document principally covers how to use the Haier Smart Cube App and the WEB version or MAC and Windows versions of Nahui Cloud.

Readers

This document is intended for:

- Trained and qualified installation personnel
- Technical support engineer

Sign Definition

The following signs may be used in the document to indicate security precautions or key information. Before installation and operation, familiarize yourself with signs and their definitions.

Signs	Definition
A Danger	Danger. Failure to comply may result in death or serious perso nal injury.
Marning	Warning. Failure to comply may result in minor injury or property damage.
Caution	Caution. Failure to comply may result in equipment damage a nd property loss.
Tips	Important or key information, and supplementary operation tip s.

Chapter 1 Commissioning for System Creation

Tips

- Please use the App version of Haier Smart Cube to create new system for the device.

 This document takes version 1.3.0as an example to describe related operations.
- Please make sure that the device is powered on before starting operation.

App Download

Tips

Mobile OS requirements: Android 6.0, i0S 12.0 or later versions.

Download the App in the following two ways.











Installer Account Registration

App operation

Please contact Haier Europe at service-nahui@haier-europe.com to request an installer account.

System Creation for Device

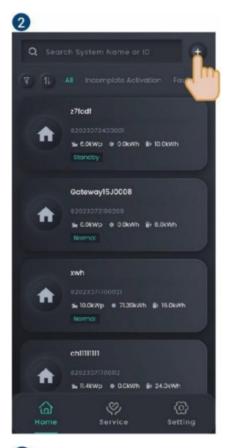
Tips

Do not use only WLAN communication for creating the new system. To use the WLAN, install Comm Mod or RJ45 network cables at the same time.

1. Click in the upper right corner of "Home" page to enter the interface of the new power station.

Complete the station building operation, and the App will push the account number to the user's e-mail box.



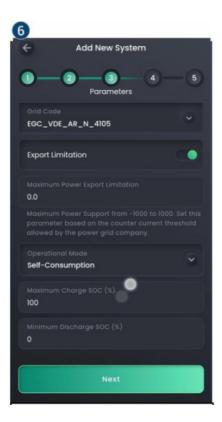




Scan the SN code label on the package. If the SN code is lost, you can scan the SN code on the device.



If an upgrade is required, perform the upgrade



You can manually set and modify some function parameters of the power station.





2. Kindly inform the account holder to check the "Nahui Cloud" email within 24 hours and complete the account activation.

Chapter 2 Daily O&M of Power Station Equipment

Tips

• The screenshots in the document are for illustrative purposes only, and there may be differences in the interface in different periods. Please refer to the actual interface.

Connotation of Signs

Sign	Description	Sign	Description
Q	Search icon. Enter keywo rds in the input box to sea rch for power stations, etc	< >	Increase/decrease button. Click to adjust the time
T	Filter button Click to filter by criteria	ĸ ^N	Enlarge button. Click to enlarge the int erface

\leftarrow	Back button Click to retur n to the main interface	>	Expand icon. Click to view more infor mation or set up more parameters
	More button. Click to view more information or set u p more parameters	©	Collapse/expand icon
	OFF/ON button Click to s witch settings		To-choose box Click To select. Then, different meanings will be filled with di fferent colors, such as To Grid
	Status indicator after insp ection: Inspection succee ded	×	Status indicator after inspection: Inspection failed
•	Equipment status indicato r: "Normal" or "Standby"	0	Equipment status indicator: "Power-off
•	Equipment status indicato r: "Offline"	•	Equipment status indicator: "Faulty"

View the Operation Information

Click ""Home" to view the status of all power stations; click. in the upper left corner to filter the power stations in various states.



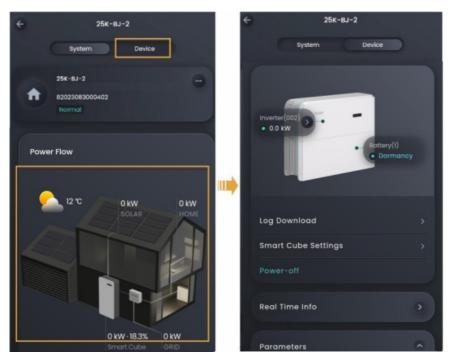
Power station information

Click the name of the power station to inquire about on the "Home" screen to view the detailed energy yield and revenue, etc., of the power station.



Device information

- 1. Tap the name of the power station where the device resides on the "Home" screen.
- 2. Click the device on the energy flow chart in the "System" tab or click the "Device" tab to view the device information.



Alarm Information

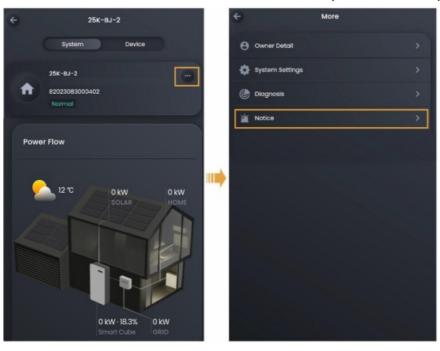
All plant alarms

Click "Service" to view the alarm information of all power stations.



Specific Plant alarm

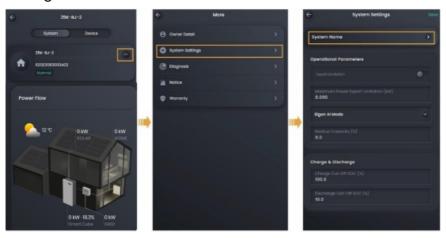
- 1. Tap the name of the power station to query on the "Home" screen.
- 2. Click behind the station name, and tap "Notice" to query the alarm of this station.



Power Station Parameter Setup

Change the plant name

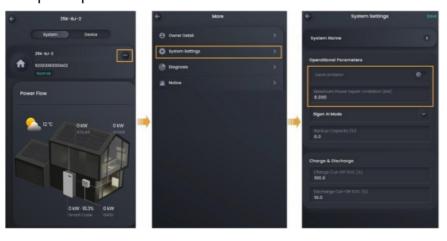
- 1. Tap the name of the power station to set up on the "Home" screen.
- 2. Click behind the station name, and tap "System Settings" → "System Name" to change the name.



Export Limitation parameters setup

Tips

- At the beginning, the installer sets the export limitation parameters based on user's requirements.
- If you need to change the parameters later, please manually set the up the export limitation parameters following the local laws and regulations and power grid agreements.
- 1. Tap the name of the power station to set up on the "Home" screen.
- 2. Click behind the station name, and tap "System Settings" "Export Limitation" to setup the parameters.

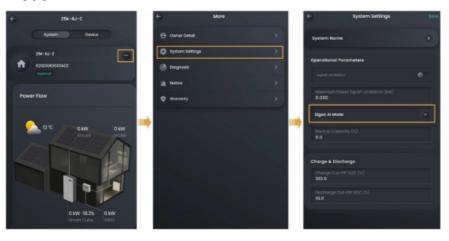


Set the energy storage operating mode

Tips

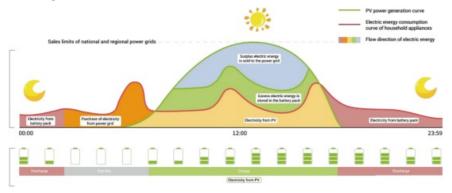
The energy storage system has three operating modes, namely, "Al Mode", "Self-consumption mode", "Fully Fed to Grid". The "Al Mode" is recommended.

- 1. Tap the name of the power station to set up on the "Home" screen.
- 2. Click behind the station name, and tap "System Settings" to change the operating mode.



Al Mode

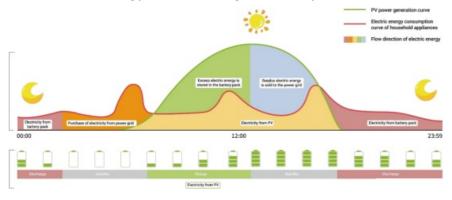
By recording the peaks and troughs of users' consumption habits and local electricity prices for one week, Al mode can customize smart electricity solutions to maximise savings for customers.



Self-consumption mode

The excess photovoltaic power output is stored in the battery. When the photovoltaic power generation is insufficient or there is no photovoltaic power generation at night, electric energy's released from the battery for load operation, so as to improve the percentage of electricity generated for in-house use and the self sufficiency rate of

household energy, thus saving electricity costs.



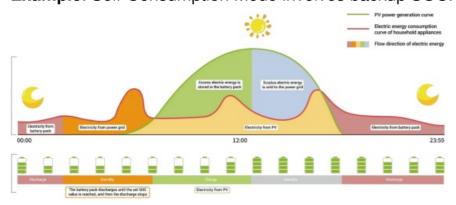
Fully Fed to Grid

The PV power generation can be maximised for sale to the power grid. During the daytime when the PV-generated power is greater than maximum output capacity of the inverter, the inverter stays at maximum output while the excess electricity is stored in batteries; when the PV-generated power is lower than maximum output capacity of the inverter or when no PV power is generated at night, the batteries are discharged to ensure that the inverter can maximize the output.

Backup Reserve

If there is a Gateway in the network, you can manually set the "Backup Reserve" value in Haier Smart Cube App. When the grid is connected, the battery stops discharging when the set backup SOC is reached; when the grid is powered down, the battery power from the backup can be used.

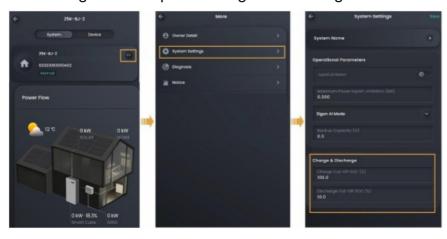
Example: Self-Consumption Mode involves backup SOC.



Charge & discharge settings

- 1. Tap the name of the power station to set up on the "Home" screen.
- 2. Click behind the station name, and tap "System Settings" → "Charge

&Discharge"to set up the charge & discharge.



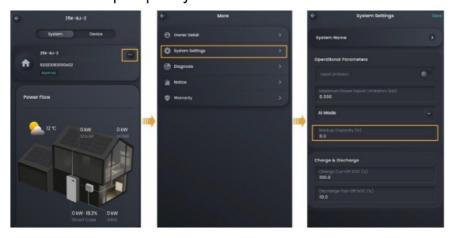
SN.	Parameter name	Description
1	Charge Cut-off SOC	Set the capacity at which the battery pack stops char ging.
2	Discharge Cut-off SO C	 Set the capacity at which the battery pack stops disc harging. The permissible range is 0%-20%, but you are adv ised not to set this parameter to 0 to avoid irreversi ble attenuation caused by the battery pack not being charged in time. In backup networking, "Backup Capacity" is preferred; in non-backup networking, this parameter is preferred.

Reserve capacity setup

Tips

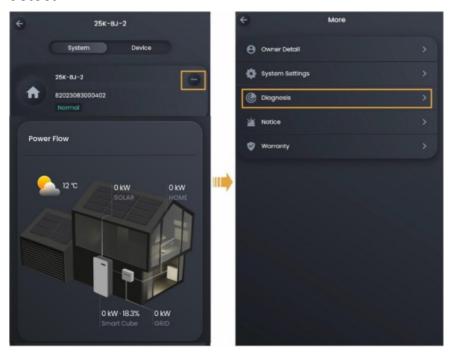
- When there is a Gateway in the networking, the backup capacity parameter can be set up.
- In grid-connected scenarios, the battery pack will no longer be discharged when it is
 discharged to the backup capacity level. In off-grid scenarios, the battery pack
 supplies power to the electrical equipment and stops discharging when it reaches the

- set "Discharge Cut-off SOC".
- Users set this manually depending on the region's power failure frequency and the time away from home.
- You are advised not to set this parameter to 0 to avoid irreversible attenuation caused by the battery pack not being charged in time.
- 1. Tap the name of the power station to set up on the "Home" screen.
- 2. Click behind the station name, and tap "System Settings" "Backup Capacity" to set the backup capacity.



Power Station Diagnosis

- 1. Tap the name of the power station to setup on the "Home" screen.
- 2. Click behind the station name, and tap "System Settings" "Backup Capacity" to detect.



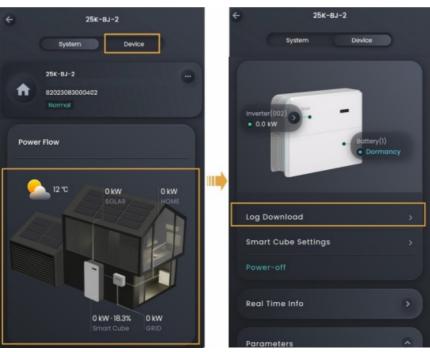
Device Parameters Setup

Log download

Tips

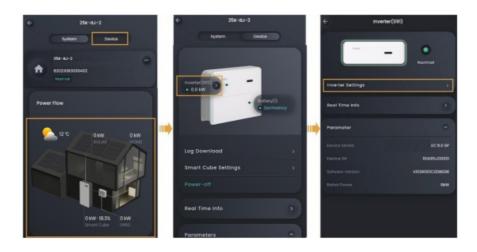
When a device malfunctions and you need to locate the problem, you can download device logs for analysis.

- 1. Tap the name of the power station where the device resides on the "Home" screen.
- 2. Click the device on the energy flow char tin the "System" tab or click the "Device" tab.
- 3. Click "Log Download" to download.



Inverter parameters setup

- 1. Tap the name of the power station where the device resides on the "Home" screen.
- 2. Click the device on the energy flow char tin the "System" tab or click the "Device" tab.
- 3. Click "Inverter" to enter the inverter interface.



Power

Code	Parameter name	Description
1	Fixed value adjustme nt ofactive power	Adjust the active power output of the device based on theset fixed value.
2	Percentage active po weradjustment	Adjust the active power output of the device based on theset percentage.
3	Fixed value adjustme nt ofreactive power	Adjust the reactive power output of the device base d on theset fixed value.
4	Reactive power Q/Sr egulation	Adjust the reactive power output of the device base d on the ratio of the set reactive power to the apparent power of the device.
5	Power factor adjustm ent	Adjust the reactive power output of the device base d on the set power factor.
6	Active power gradient	Set the speed of active power scheduling.
7	Reactive power variat iongradient	Set the speed of reactive power scheduling.

		To protect device security, the device cannot run wh
	Insulation impedance	en it detects that the actual insulation impedance ou
9	threshold	tput by the PV array to the ground is lower than the
		value set in this parameter.

Frequency Setting

S	N.	Parameter name	Description
	1	Over frequency Dati ng Enable	When the output power of the device will be lim ited if the grid frequency is greater than the trigger value.

Voltage Protection

Code	Parameter name	Description
1	Level-N Overvoltage Pr otection Threshold	Set the level-N over voltage protection value of the grid voltage. When the actual voltage is greater than the set protection value and the set protection time is elapsed, the device alarm will be triggered; othe rwise, the alarm will be cleared.
2	Level-N Overvoltage Protection Duration	Set the level-N over voltage protection time for grid voltage.
3	Level-N Under voltage Protection Threshold	Set the level-N under voltage protection value of the grid voltage. When the actual voltage is smaller than the set protection value and the set protection time is elapsed, the device alarm will be triggered; o therwise, the alarm will be cleared.
4	Level-N Under voltage Protection Duration	Set the level-N under voltage protection time for gri d voltage.

Note: N represents 1-3. The settable parameters of "Voltage Protection" are associate d with "Grid Code"; the parameters that can be set are based on the actual screen.

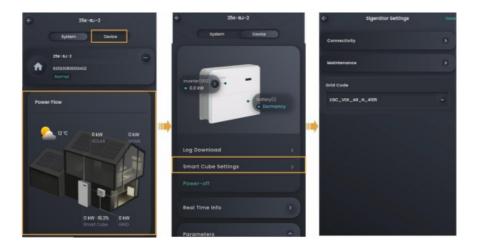
Frequency Protection

Code	Parameter name	Description
1	Level-N Over frequency Protect ion Threshold	Set the level-N over frequency protection value of the g ridvoltage. When the actual voltage is greater than the set protection value and the set protection time is elaps ed, the device alarm will be triggered; otherwise, the al arm will be cleared.
2	Level-N Over frequency Protect ion Duration	Set the level-N over frequency protection time for grid v oltage.
3	Level-N Under frequency Protect ion Threshold	Set the level-N under frequency protection value of the grid voltage. When the actual voltage is smaller than the e set protection value and the set protection time is elapsed, the device alarm will be triggered; otherwise, the alarm will be cleared.
4	Level-N Under frequency Protect ion Duration	Set the level-N under frequency protection time for grid voltage.

Note: N represents 1-3. The settable parameters of "Frequency Protection" are associ ated with "Grid Code"; the parameters that can be set are based on the actual screen.

Smart Cube settings

- 1. Tap the name of the power station where the device resides on the "Home" screen.
- 2. Click the device on the energy flow chart in the "System" tab or click the "Device" tab.
- 3. Click"Smart Cube Settings" to enter the setting interface.



Change the type of network connection

Click "Connectivity" to change the network connection type as required.

Tips

- Before activating the WLAN communication, ensure that an antenna is installed on the device.
- Please make sure that CommMod is installed on the device before activating the 4G communication.
- It is recommended to use FE and WLAN for communication. CommMod users must top up their own 4G data plan after a period of 2 years.

Historical Information Maintenance

Click "Maintenance" to clear the historical data.

Tips

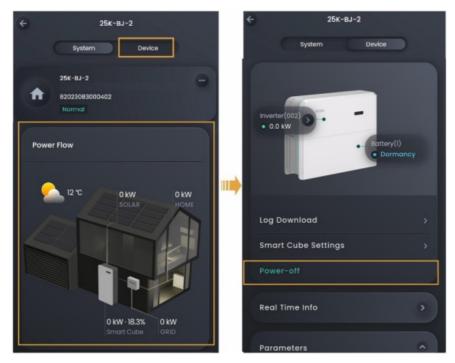
- Run Reset to restart the device.
- Run the "Erase All Content" command to clear the 5-minute performance data, alarms, and hour-day-month-year energy yield. Exercise caution when performing this operation.

Change the power grid standard code

Click "that you can change it remotely, that you can change it remotely.

Equipment Power-on/Power-off

- 1. Tap the name of the power station where the device resides on the "Home" screen.
- 2. Click the device on the energy flow charting the "System" tab or click the "Device" tab.
- 3. Click "Power-off" or "Power-on" to switch the device on or off.



Chapter 3 Others

Change password

Tap "Forgot Password" on the login screen to reset the password.

Change language

Click "Setting" language. "App Setting" "Language" "Select Language" to change the

Change nickname

Click "Setting" and click at the top of the screen to change the "Nickname".

Change the Interface Style

Click "Setting" "App Setting" "Dark Mode" "Select Style" to change the style.

Upgrade the Haier Smart Cube software

Tips

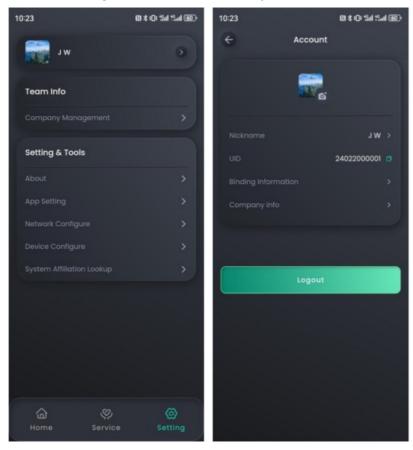
For best compatibility and performance, Haier Smart Cube App, Nahui Cloud's MAC, and Windows app versions are recommended to be upgraded regularly. Skip this section

for the web version.

Click "Setting" → "About" "Version Update" to upgrade the App.

Chapter 4 Exit the Account

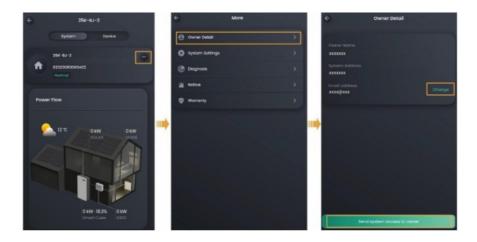
Click "Setting ",click at the top of the screen, and tap "Log out".



Chapter 5 FAQS

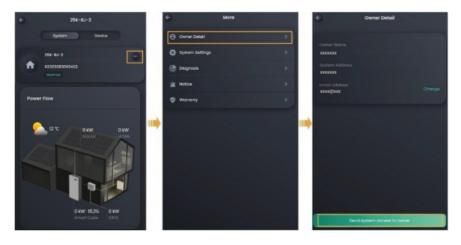
What if the user does not receive the account activation email?

- You can check the "Junk Mail" in your email box to see if you have received any emails regarding
 - the "Nahui Cloud" account.
- If nothing is found in "Junk Mail", please confirm that the email information of the user is filled in correctly. If it is in correct, please reset and push again.



What shouldldo if the activation of the account times out?

Please push the account activation information again and notify the user to activate the account within 24h.



What should Ido if encounter problems during operations like Initialisation?

How can proceed if I haven't received the email (verification code, log, etc.) sent by the system?

You can check the "Junk Mail" in your email box to see if you have received any emails regarding the "Nahui Cloud" account. * Send again.

Official website of NAHUI



Haier Smart Cube



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www.eur.nahui-newenergy.com



Documents / Resources



<u>Haier HH3P-12K Smart Cube</u> [pdf] User Guide HH3P-12K Smart Cube, HH3P-12K, Smart Cube, Cube

References

- Haier Energy official website The Provider Of "Solar&Energy Storage" Solutions

 And Smart Home Energy Management System
- User Manual
 - Cube, Haier, HH3P-12K, HH3P-12K Smart Cube, Smart
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