Sigen EV AC Charger

User Manual

Sigen EV AC Charger User Manual

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Revision History

Version	Date	Description
04	2025.06.13	Updated Model Designation. Updated Instructions to Charging Modes. Updated Scheduled Charging. Added Off-grid Charging Settings.
03	2025.01.02	Updated Typical Networking。 Updated Instructions to Charging Modes. Added OCPP Settings. Added OCPP Settings.
02	2024.06.20	Updated Typical Networking. Added Instructions to Charging Modes. Updated Networking of the Charger. Added PV Charging or PV Storage & Charging Networking.
01	2023.12.22	First official release.

Overview

Introduction

This document mainly introduces Sigen EVAC (7, 11, 22) 4G T2 WH and Sigen EVAC (7, 11, 22) 4G T2SH WH (hereafter referred to as Sigen EV AC Charger) and its networking configuration and operation & maintenance.

Readers

This document is suitable for product users and professionals

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
	Danger. Failure to comply may result in death or serious personal injury.
	Warning. Failure to comply may result in serious personal injury or property damage.
	Caution. Failure to comply may result in property damage.
	Important or key information, and supplementary operation tips.

Safety Precautions

Basic Information

Before installing, operating, and maintaining the equipment, familiarize yourself with this document.

The "Danger ", "Warning", "Caution" items described in this manual are only supplementary to all precautions.

The Company shall not be liable for equipment damage or property loss caused by the following reasons:

- Failure to obtain approval from the national, regional power authority.
- The installation environment does not meet international, national, or regional standards.
- Failure to observe local laws, regulations and norms when operating and maintaining equipment.
- The installation area does not meet the requirements of the equipment.
- Failure to follow the instructions and precautions in this document.
- Failure to follow the warning labels on equipment or tools.
- Negligent, improper operation or intentional damage.
- Damage caused by your or a third party's replacement of our equipment.
- The equipment is damaged because the your or a third-party company fails to use the accessories supplied with the packing box or purchase and install accessories of the same specification.
- Equipment damage caused by improper operations such as disassembling, replacing, or modifying the software code without authorization.
- Equipment damage caused by force majeure (such as war, earthquake, fire, storm, lightning, flood, debris flow, etc.).
- Damage caused by the failure of the natural environment or external power parameters to meet the standard requirements of the equipment during actual operation (for example, the actual operating temperature of the equipment is too high or too low).
- The equipment was stolen.
- The equipment is damaged after the warranty period.

Safety Requirements

Danger

- Do not expose the equipment to high temperature or heat sources, such as ignition sources, heaters, etc.
- Do not clean or soak the equipment with water, alcohol, or oil to avoid power leakage or battery pack leakage.
- Do not leave liquid in the charging connector or socket.
- Do not knock or impact the equipment. In case of an accident, please stop using the equipment immediately and contact your installer or sales agent, The equipment shall be inspected and evaluated by professional personnel before continuing to use.
- Do not use the equipment in bad weather, such as heavy rain or snowstorm, when installed outdoors.
- Do not extend sharp objects or fingers into the equipment.

Warning

After charging, put the charging connector and the charging cable back to their specified positions to prevent the charging connector from being contaminated or moistened and the charging cable from being crushed by heavy objects such as vehicles.

Caution

- Do not use the equipment with faults. If the equipment appears abnormal, contact your installer or sales agent.
- Do not connect cables or adapters that are not required for installing this equipment.
- Do not use the equipment for any purposes other than vehicle charging.
- Do not use a private generator as the power source for the equipment.
- Do not forcedly bend parts on the equipment.
- Carbon dioxide fire extinguishers or ABC dry powder fire extinguishers are recommended at home.
- If the equipment cannot be charged, please contact your installer or sales agent in time.
- The radio waves generated when using the equipment may affect the normal use of implantable medical devices or personal medical devices, such as pacemakers, implantable defibrillators, hearing AIDS, etc. Consult with your medical device manufacturer about the restrictions of using the equipment before use.

Do not use the equipment in the following situations:

- When connected to public infrastructure systems.
- When connected to emergency medical equipment.
- When connected to elevators and other control devices.
- Any other critical systems.

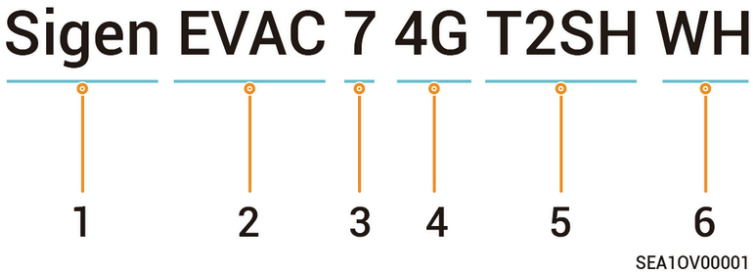
Product Introduction

Model Designation

Model specifications of Sigen EV AC Charger include the followings:

- Sigen EVAC 7 4G T2 WH
- Sigen EVAC 11 4G T2 WH
- Sigen EVAC 22 4G T2 WH
- Sigen EVAC 7 4G T2SH WH
- Sigen EVAC 11 4G T2SH WH
- Sigen EVAC 22 4G T2SH WH

Fig Model designation (example)



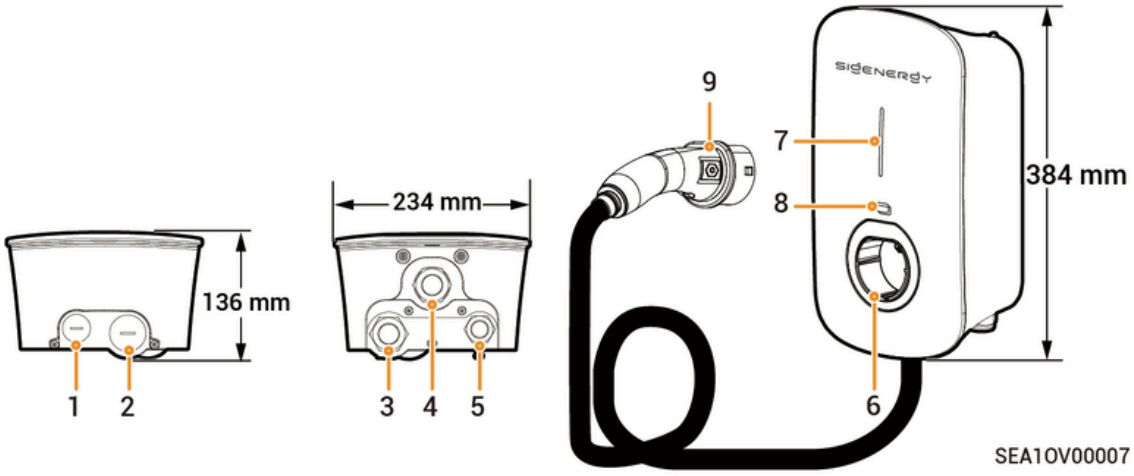
S/N	Definitions	Description
1	Brand name	-
2	Charger type	**EVAC: EV AC charger**
3	Power range (phase voltage is 230 V)	• 7：7.36kW • 11：11kW • 22: 22kW

4	Features	• Supported communication modes:
		  ◦ Ethernet communication
		  ◦ 4G communication
		  ◦ WLAN communication
		• Supported charging modes:
		  ◦ Fast Charging
		  ◦ PV Surplus Charging
		• Supported charging methods:
		  ◦ RFID card authenticated charging
		  ◦ App authenticated charging
		  ◦ Unauthenticated charging mode
		  ◦ Scheduled charging
		• You can manually adjust the charging current or connect the Power Sensor. Dynamic load management (DLM) will automatically initiate to optimize the charging process.

5	Output port	• T2: Type 2 charging connector complying with IEC 62196-2 • T2SH: Type 2 charger socket with protective door complying with IEC 62196-2
6	Color	WH：White

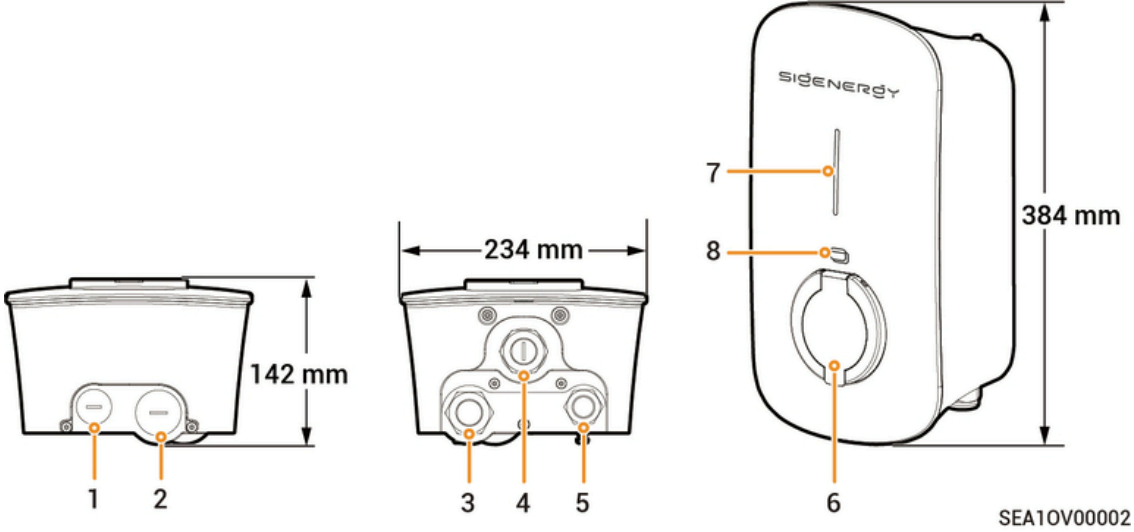
Product Appearance

Sigen EVAC 7/11/22 4G T2 WH



S/N	Description
1	Top routing hole for communication cable
2	Top routing hole for AC input cable
3	Bottom routing hole for AC input cable
4	Bottom routing hole for charging cable
5	Bottom routing hole for communication cable
6	Type 2 charging connector holder
7	Indicator
8	Sigen RFID Card reading area
9	Charging connector

Sigen EVAC 7/11/22 4G T2SH WH



S/N	Description
1	Top routing hole for communication cable
2	Top routing hole for AC input cable
3	Bottom routing hole for AC input cable
4	(Reserved) Bottom routing hole
5	Bottom routing hole for communication cable
6	Type 2 charger socket with protective door
7	Indicator
8	Sigen RFID Card reading area

Tips

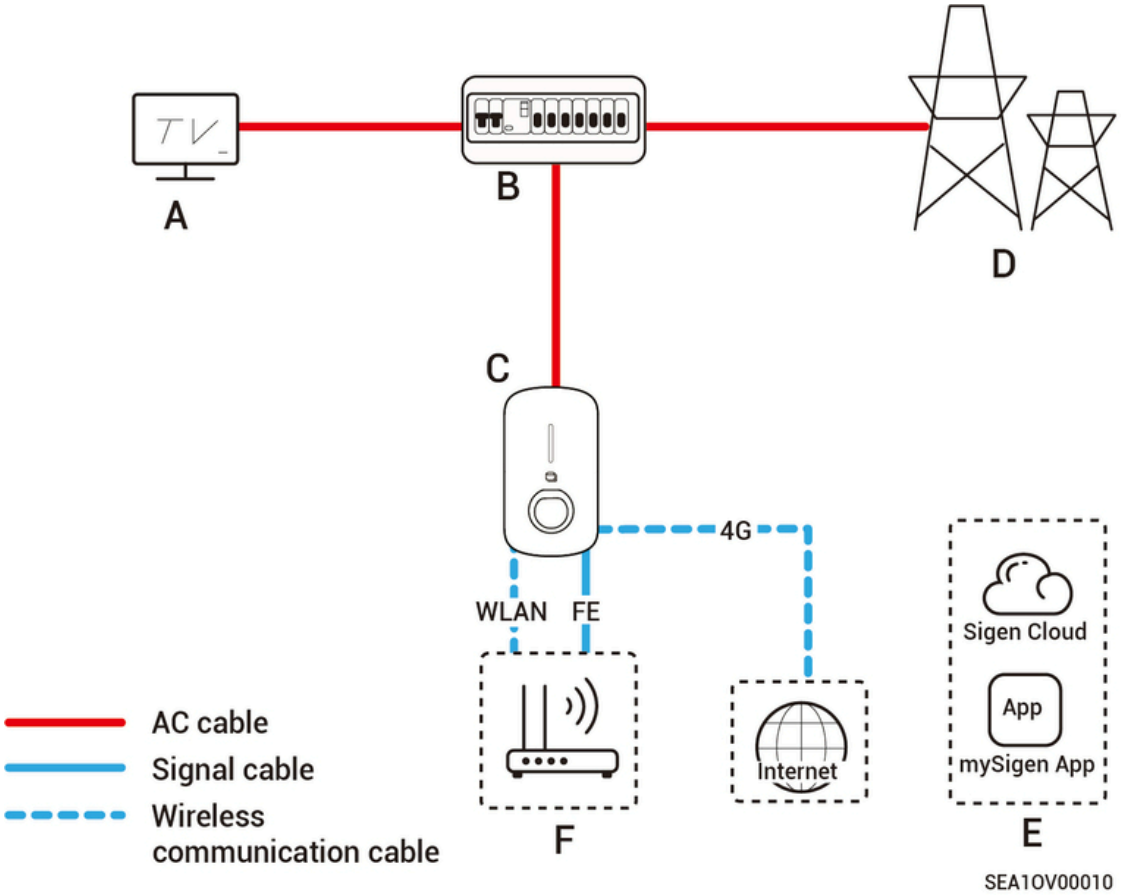
Cables are routed through the cable holes (No. 1 and No. 2) on the top. Please cover the top to avoid water ingress due prolonged water accumulation on the top.

Label Description

Symbol	Definitions
	Warning! Life-threatening Potential risks exist when the equipment is running. Please take protective measures before operating the equipment.
	Danger! High Voltage High voltage exists inside the equipment when powered on. Do not open the casing when the equipment is running. Any maintenance or servicing operations must be performed by trained and skilled electrical engineers.
	Operate the equipment by referring to the User Manual.
	GND symbol

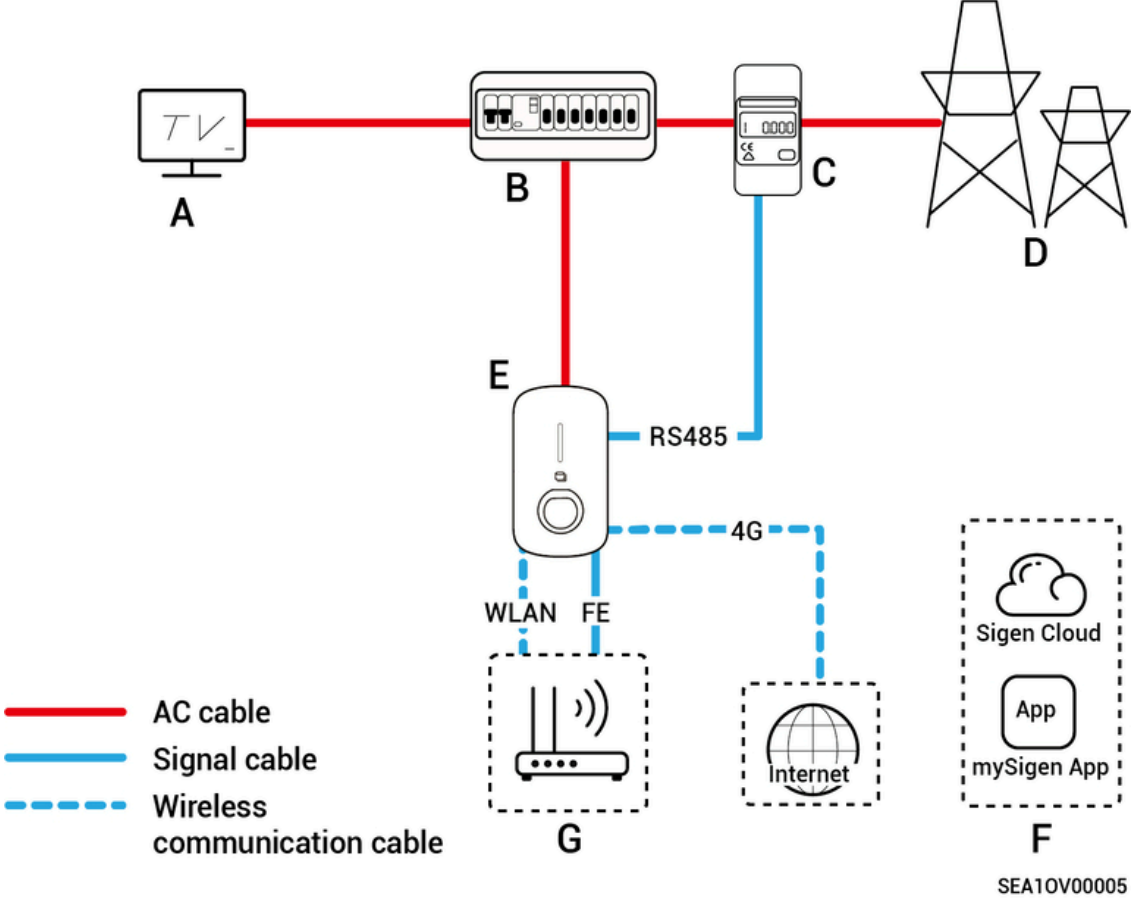
Typical system wiring

Networking configuration of the charger



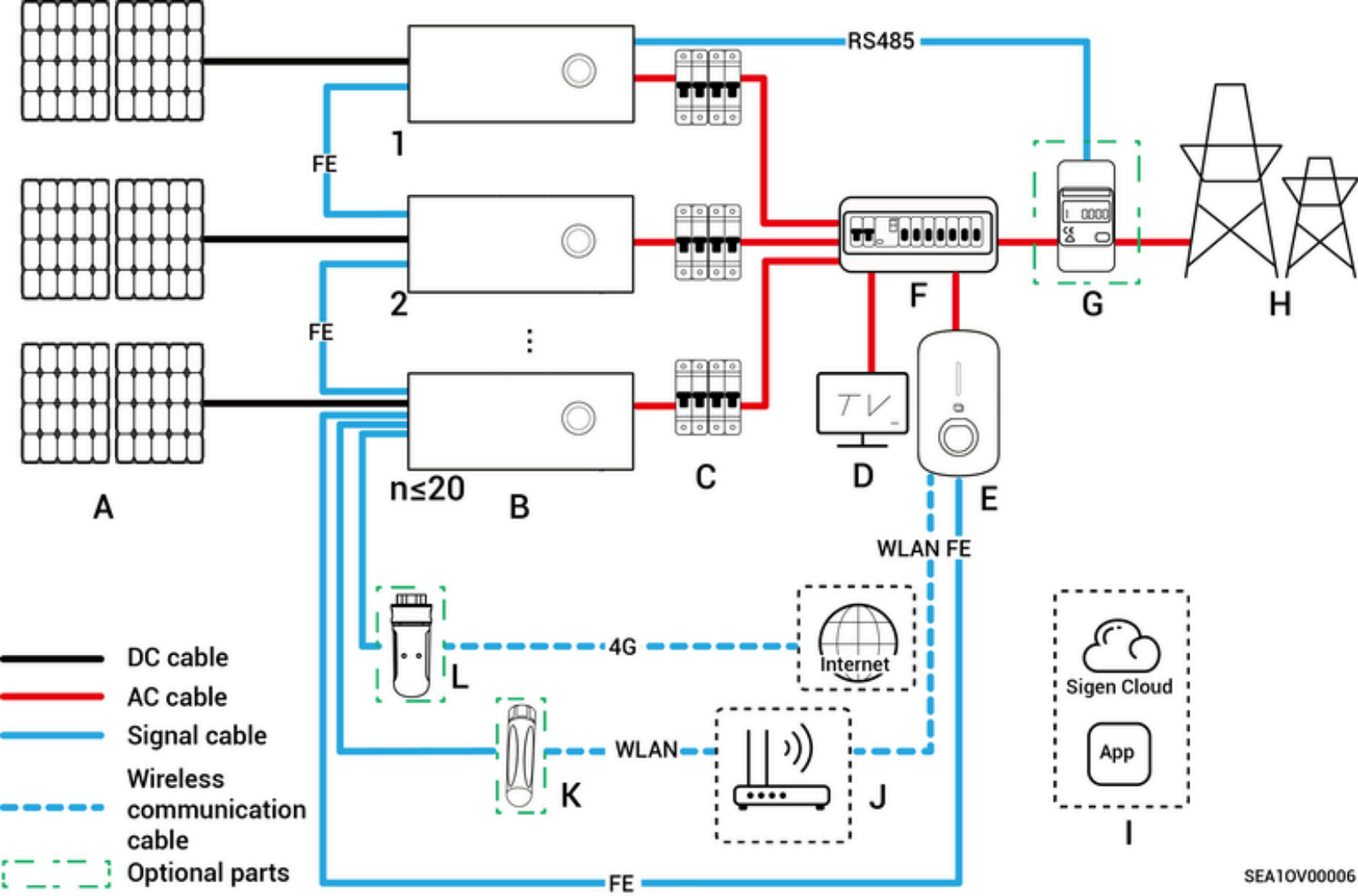
No.	Description	No.	Description
A	Power equipment	**B**	Distribution panel
C	Sigen EV AC Charger	**D**	Power grid
E	mySigen	**F**	Router

Networking of the charger (with DLM)



No.	Description	No.	Description
A	Power equipment	**B**	Distribution panel
C	Power Sensor	**D**	Power grid
E	Sigen EV AC Charger	**F**	mySigen
G	Router		

PV charging networking

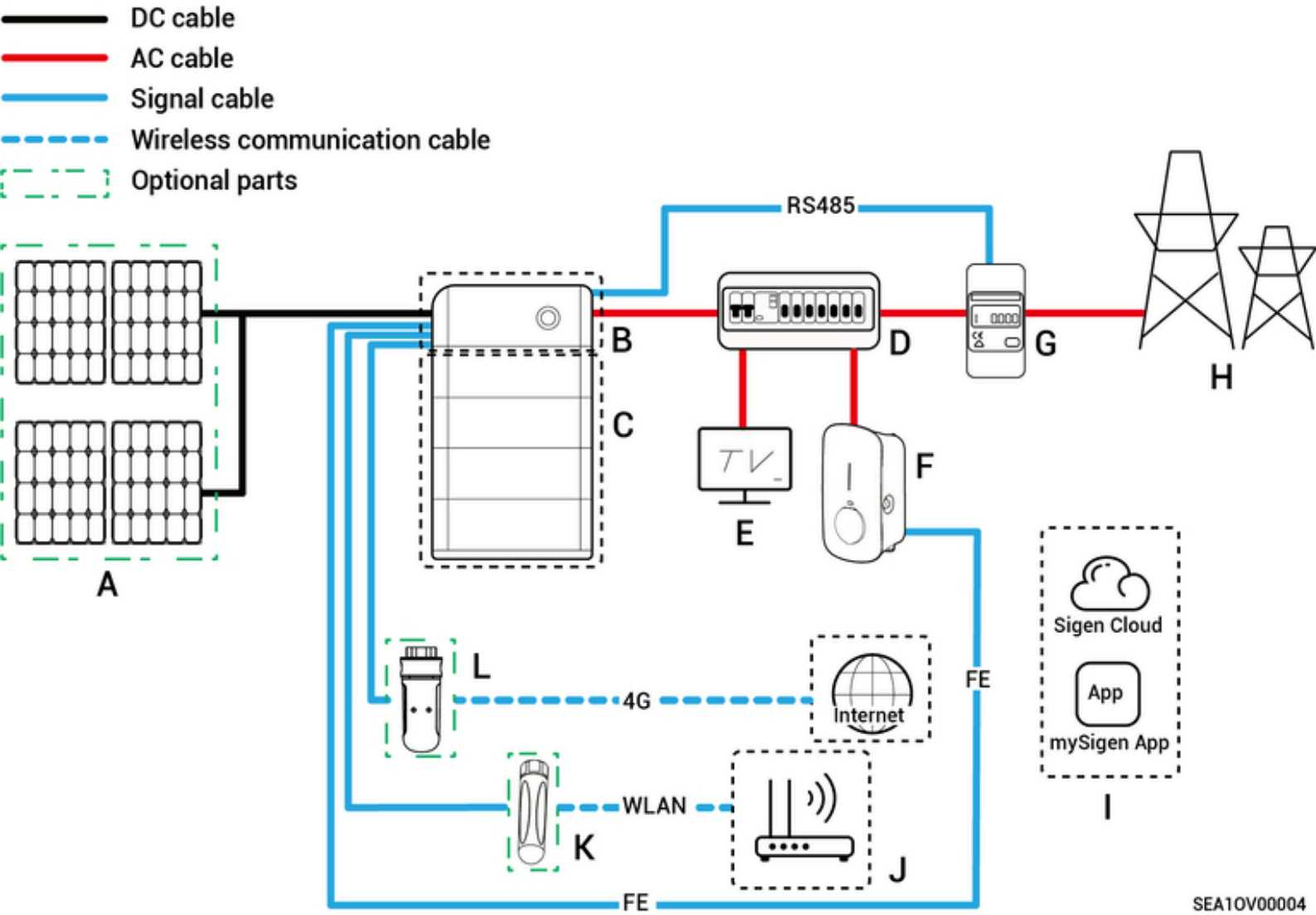


No.	Description	No.	Description
A	PV panel	**B**	Sigen PV Max/Sigen Hybrid series inverter
C	AC switch	**D**	Power equipment
E	Sigen EV AC Charger	**F**	Dstribution panel
G	Power sensor	**H**	Power grid
I	mySigen	**J**	Router
K	Antenna	**L**	CommMod

Tips

- I If F (distribution panel) features leakage protection, it is recommended that the rated residual operating current be greater than or equal to the number of inverters × 100 mA.
- It is recommended to use Fast Ethernet and WLAN for communication with inverters. When free 4G traffic of CommMod runs out, users must replace an SIM card.

PV storage and charging networking (non-backup power scenario)



No.	Description	No.	Description
A	PV panel	**B**	SigenStor EC/ Sigen Hybrid[1]
C	SigenStor BAT	**D**	AC switch
E	Distribution panel	**F**	Household load
G	Sigen EV AC Charger	**H**	Power Sensor
I	Power grid	**J**	mySigen
K	Router[2]	**L**	Antenna[3]
M	CommMod[4]		

Tips

Note [1]: If Sigen Hybrid series inverters are configured with SigenStor BAT, users must purchase and activate the license to change the PV charging networking to the PV storage and charging networking.

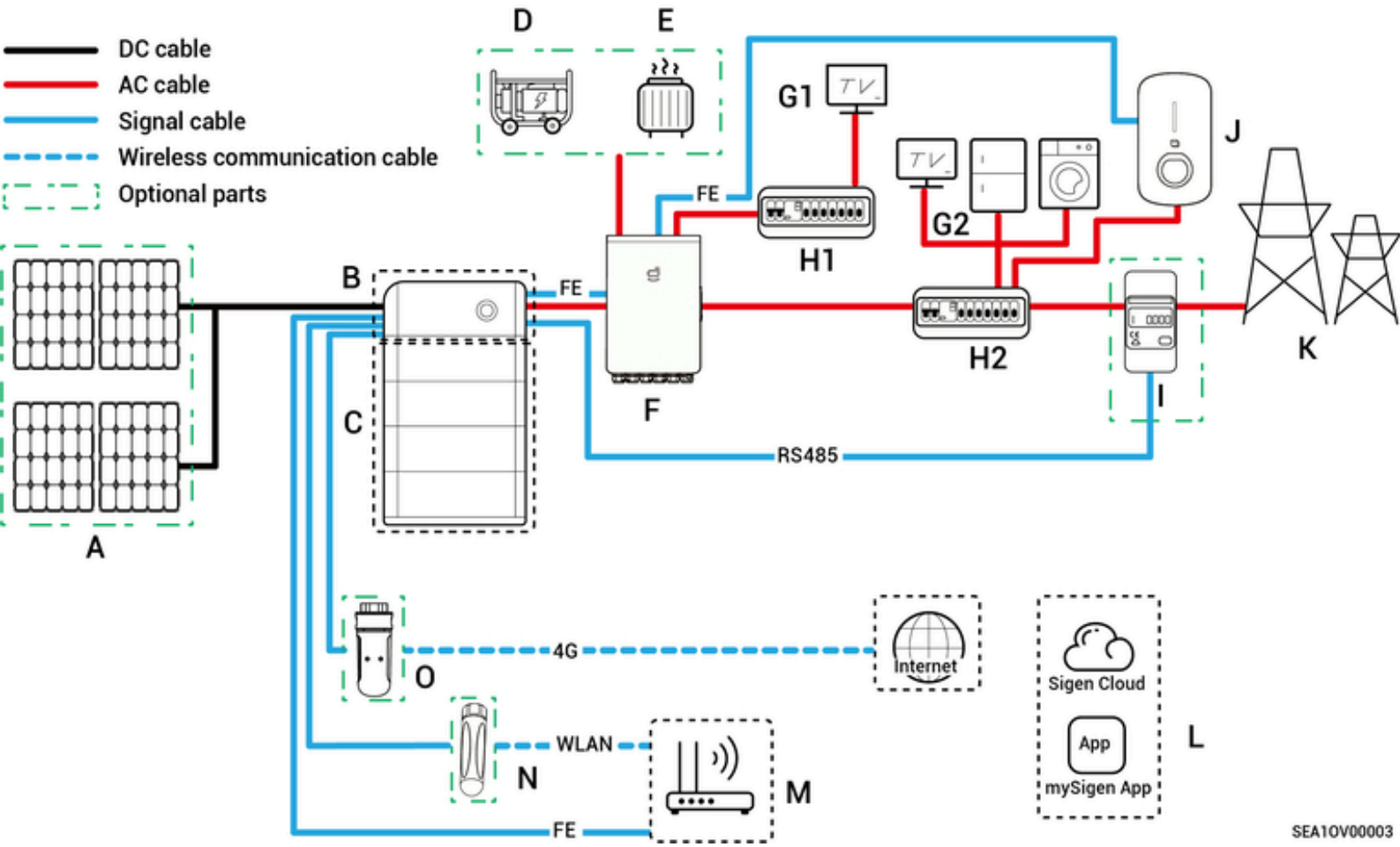
Note [2]: Configure when Fast Ethernet or WLAN is used for communication with inverters.

Note [3]: Configure when WLAN is used for communication with inverters.

Note [4]: Configure when 4G is used for communication with inverters.

- I If E (distribution panel) features leakage protection, it is recommended that the rated residual operating current be greater than or equal to the number of inverters × 100 mA.
- It is recommended to use Fast Ethernet and WLAN for communication with inverters. When free 4G traffic of CommMod runs out, users must replace an SIM card.

PV storage and charging networking (backup power scenario)



No.	Description	No.	Description
A	Solar panel	**B**	SigenStor EC/ Sigen Hybrid
C	SigenStor BAT	**D**	Diesel generator
E	Smart load	**F**	Gateway
G1	Backup household load	**H1**	Backup power distribution panel
G2	Non-backup home loads	**H2**	Non-backup power distribution panel
I	Power Sensor[1]	**J**	Sigen EV AC Charger
K	Power grid	**L**	mySigen
M	Router[2]	**N**	Antenna[3]
O	CommMod[4]		

Tips

Note [1]: Configure for partial backup power + zero-power grid-connected control networking.

Note [2]: Configure when Fast Ethernet or WLAN is used for communication with inverters.

Note [3]: Configure when WLAN is used for communication with inverters.

Note [4]: Configure when 4G is used for communication with inverters.

- If H2 (non-backup distribution panel) features leakage protection, it is recommended that the rated residual operating current be greater than or equal to the number of inverters × 100 mA.
- If G1 (backup household load) experiences leakage, it may pose a risk of electric shock. In order to avoid this hazard, a residual current device (RCD) must be installed between the F (Gateway) and the G1 (backup household load).
- It is recommended to use Fast Ethernet and WLAN for communication with inverters. When free 4G traffic of CommMod runs out, users must replace an SIM card.

Location Requirements

Tips

- The warranty applies when the equipment has been installed properly for its intended use and in accordance with the operating instructions.
- During actual installation, the selection of the installation location should comply with local regulations, firefighting regulations, and other relevant laws. The specific installation location planning should be subject to the installer or engineering, procurement, and construction (EPC) contracts.

Installation Environment Requirements

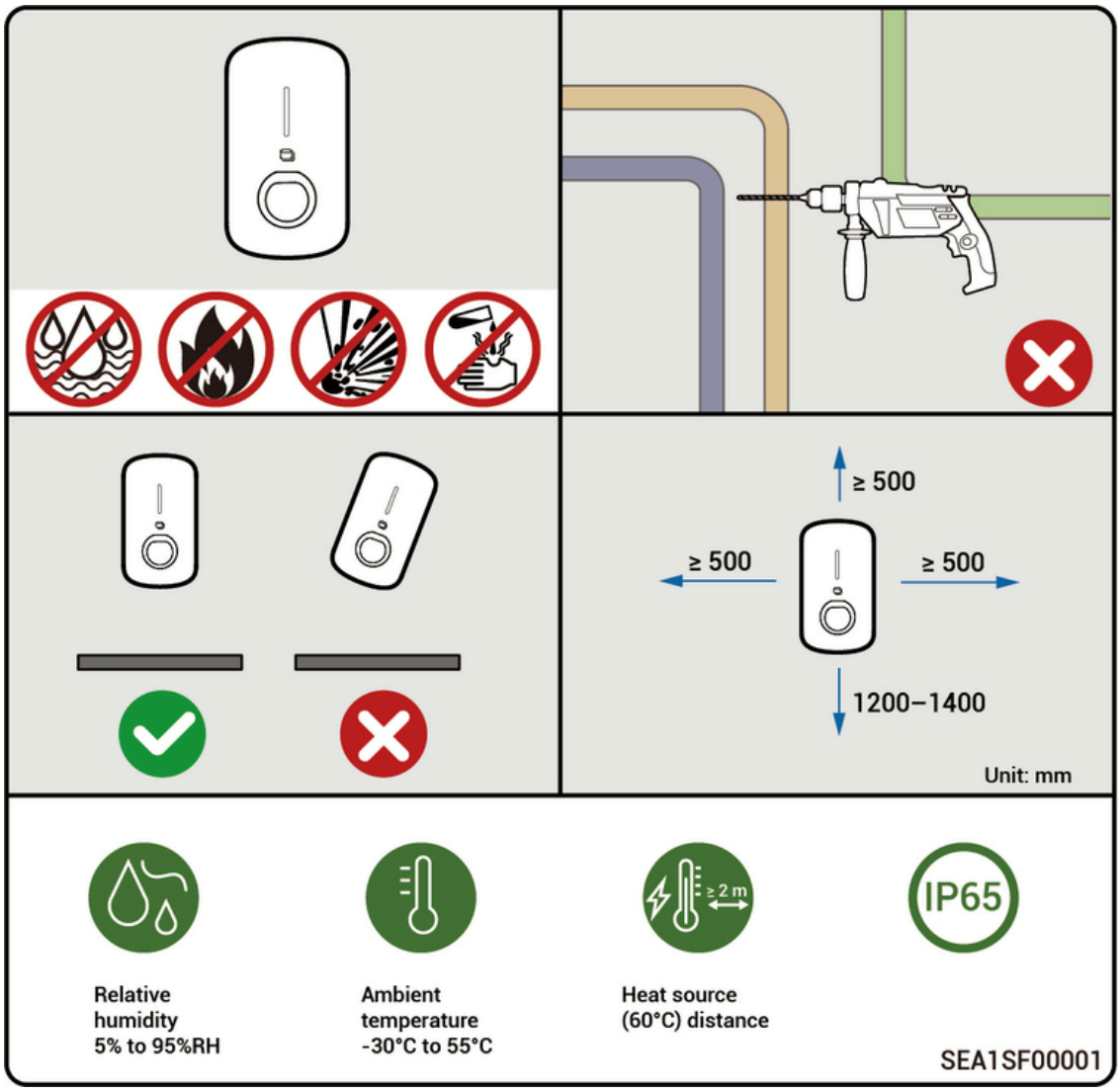
- Do not install the equipment in smoky, flammable, explosive, or corrosive environments.
- Avoid exposing the equipment to direct sunlight, rain, standing water, snow, or dust. Install the equipment in a sheltered place. Take preventive measures in operating areas prone to natural disasters such as floods, mudslides, earthquakes, and typhoons.
- Do not install the equipment in an environment with strong electromagnetic interference.
- Ensure that the temperature and humidity of the installation environment comply with the equipment's requirements.
- The equipment should be installed in an area that is at least 500 m away from corrosion sources that may result in salt damage or acid damage (corrosion sources include but are not limited to seaside, thermal power plants, chemical plants, smelters, coal plants, rubber plants, and electroplating plants).
- In areas with good marine environments (such as Norway, where the nearshore salinity is ≤ 28 psu), the mounting distance of the device from the coastline can be appropriately relaxed to ≥ 200 m.
- If the outer surface of the device is damaged, please repaint the device in time.

Installation Position Requirements

- Do not tilt or overturn the equipment to ensure that it is installed horizontally.
- Do not install the equipment in a place easily touched by children.
- Do not install the equipment in mobile scenarios such as RVS, cruise ships, and trains.
- You are advised to install the equipment in a position that is easy to operate, maintain, and view indicator status.
- When installing the equipment in the garage, do not install the equipment in the position where the vehicle passes through to avoid collision.

Mounting surface

- Do not install the equipment on a flammable carrier.
- The installation carrier must meet load-bearing requirements. Solid brick-concrete structure, concrete walls are recommended.
- The surface of the installation carrier must be smooth and the installation area must meet the installation space requirements.
- No water or electricity is routed inside the carrier to prevent drilling hazards during equipment installation.

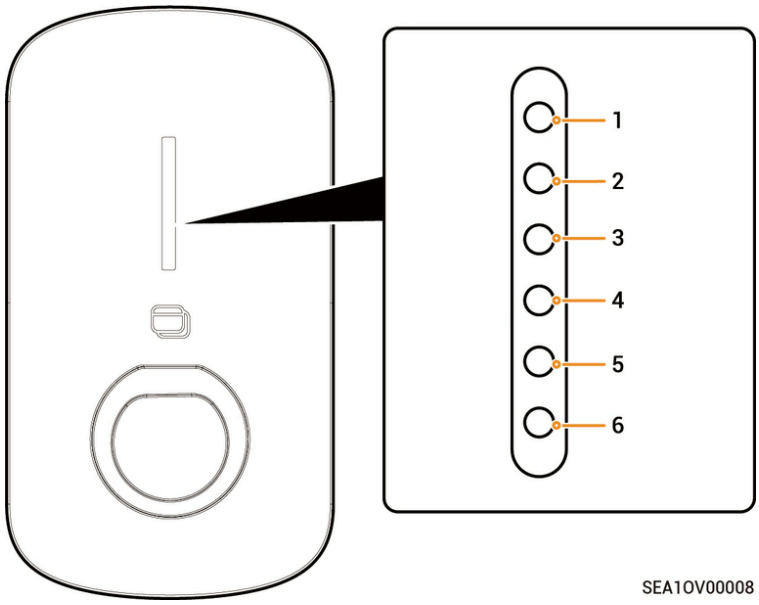


Equipment Installation and Connection

Equipment installation and connection must only be completed by the installer certified by the Company. For more information, refer to *Sigen EV AC Charger Installation Guide*.

How to Use

LED Indicator Status



Illuminated Indicator	Color	Status	Meaning
All	Multicolored	Steady on	Starting, initializing configuration.
1		Steady on	In standby mode. Not connected to the internet, charging connector not inserted into the vehicle.
1		Breathing blink	In standby mode. Connected to the internet, charging connector not inserted into the vehicle.
All		Steady on	• Sigen RFID Card not read. The charging connector is connected to the vehicle. • Charging completed
All		Breathing blink	You have registered the charging time, and the charging connector has already been connected to your vehicle.
All		Blink	Sigen RFID Card read. Get ready to charge vehicles.
All		Flowing blink	Charging.
None	-	-	Not powered on or low voltage.
1		Blink	Equipment electrical leakage.
1		Steady on	Relays within the equipment getting stuck.
1、2		Blink	Overvoltage or undervoltage protection.
1~3		Blink	Overcurrent protection
1~4		Blink	Overtemperature protection.

1~5		Blink	Grounding fault.
All		Blink	Communication failure between the equipment and the vehicle.
1、2		Steady on	Other malfunctions.

mySigen App Download and Login

Tips

- **This document takes version 3.0.0 as an example to introduce relevant operations. The actual screen display shall prevail.**
- **The screen differs slightly between PV charging and PV storage & charging networking, but the operations are the same. The illustrations here are for reference only. The actual screen display shall prevail.**

1. Download the app.

2. Provide your email account to the installer for signing up.
3. After signing up your account, the installer will ask you to activate your account.
4. Please check the email sent from the "sigencloud" account in your inbox, set your initial password, and activate your account.
5. Log in to the app.

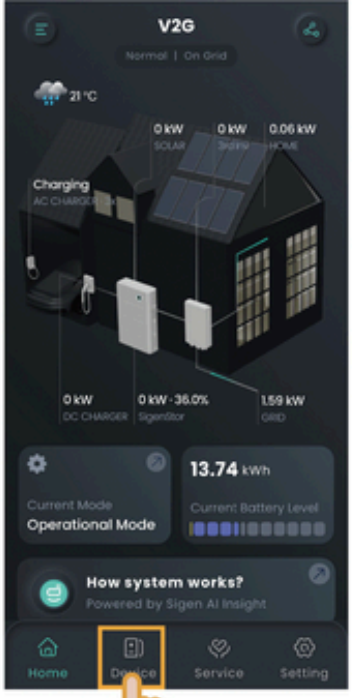
Instructions to Charging Modes

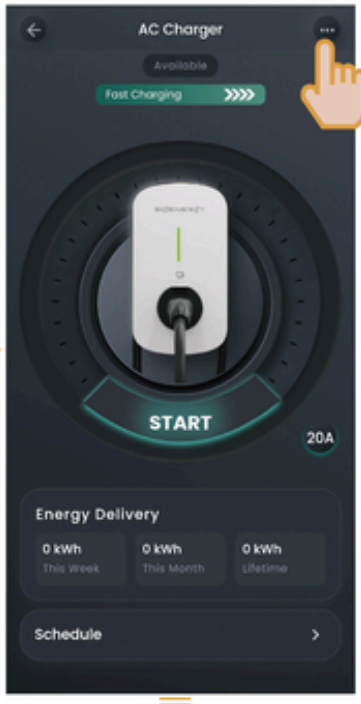
After Sigen EV AC Charger is connected to our inverters, Fast Charging, and PV Surplus Charging modes are supported to adapt to different networking applications.

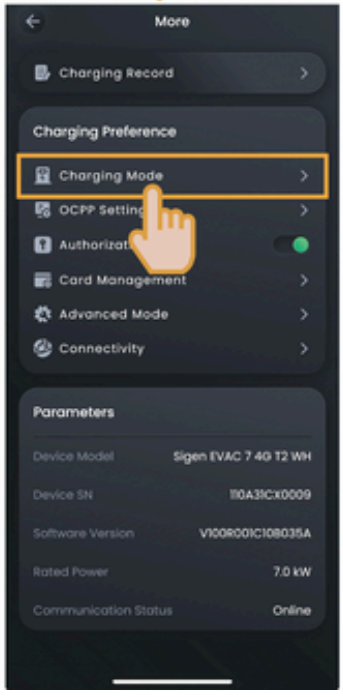
Tips

- **Networking of the charger:** Fast Charging is used by default, and no manual setting is required.
- **PV charging or PV storage & charging networking:** The options for charging modes include Fast Charging, and PV Surplus Charging. You must set the charging mode in your App before charging.

The charging mode setting method is the same for PV charging and PV storage & charging networking. Here, one setting method is taken as an example. The actual screen display shall prevail.







This indicates the recommended settings range.
The system dynamically displays optimal values based on the power station's real-time operating conditions.

Fast Charging

Sigen EV AC Charger can achieve the fastest charging speed when it charges the vehicle with the maximum available power. In other words, when the generated PV power meets the power demand of loads, the surplus PV power, discharging power of battery pack and grid input power are supplied together to the Sigen EV AC Charger to charge the vehicle. You can use "Battery Boost" to set whether the battery pack is to be discharged. When set to  , the battery is allowed to discharge power to the Sigen EV AC Charger to charge the vehicle, and the discharge cutoff SOC can be set. When set to  or the battery is discharged to the set cut-off SOC , the Sigen EV AC Charger draws charging power from the surplus PV power and the grid.

Tips

"Battery Boost" is only used to set whether the battery pack discharges power to the Sigen EV AC Charger.

- **Charger System Wiring**

The charging power is obtained from the grid. This mode is used by default and no setting is required.

- **PV charging system wiring**

Daytime: When the generated PV power meets the power demand of loads, the surplus PV power is supplied to the Sigen EV AC Charger for charging vehicles. When the surplus PV power is insufficient, the charger obtains power from the grid. “Battery Boost” cannot be set in this mode.

Nighttime: The charging power is sourced from the grid.

- **PV storage and charging system wiring**

Daytime: When "Battery Boost" is set to  , once the generated PV power meets the power demand of loads, the surplus PV power and the discharge power of battery pack are both supplied to the Sigen EV AC Charger for charging vehicles. When the surplus PV power is insufficient, the charger obtains power from the grid.

Nighttime: When "Battery Boost" is set to  , once the discharge power of battery pack meets the power demand of loads, the surplus power is supplied to the Sigen EV AC Charger for charging vehicles. When the discharge power of battery pack is insufficient, the charger obtains power from the grid.

Examples of daytime usage scenarios for the Sigen EV AC Charger in PV charging or PV storage and charging system wiring.

Model: Sigen EVAC 11 4G T2 WH; Output mode: three-phase; **Household Circuit Breaker** in the connected distribution panel: 44 kW (63A); "Grid import Power Limit": 44 kW.

A	B	C	D
Generated power of PV system or generated power of PV system + discharging power of battery pack (kW)	Consumed power of load (kW)	Compensating power of grid (kW) C=(D-(A-B))	Actual charging power (kW)
20	15	6	11
10	40	41	11
5	40	44	9[1]
0	40	40	0 (Do not start [2])

Note [1]: When C is no greater than the maximum available power, and when the DLM function is enabled, the maximum available power of the Sigen EV AC Charger is D = (A + maximum available power) - B.

Note [2]:

- When C is no greater than the maximum available power, and when the DLM function is enabled, if D is less than the minimum starting power of Sigen EV AC Charger, Sigen EV AC Charger will not start.
- When the DLM function is enabled, the minimum starting charging power of Sigen EV AC Charger is 5.52 kW (three-phase output) or 1.84 kW (single-phase output). In other cases (PV Surplus Charging), the minimum starting charging power of Sigen EV AC Charger is 4.14 kW (three-phase output) or 1.38 kW (single-phase output).

PV Surplus Charging

Background Information

- Sigen EV AC Charger cannot start charging in this mode at nighttime. Please use this mode during the daytime. Set "Grid Charging" to to allow the Sigen EV AC Charger to obtain charging power from the grid. You can set the "The maximum power from the grid" to limit the amount of power purchased from the grid, therefore saving your tariff.
- Set "Battery Boost" to to allow the battery to discharge power to the Sigen EV AC Charger to charge the vehicle, and the discharge cutoff SOC can be set. When set to or the battery is discharged to the set cut-off SOC , the Sigen EV AC Charger draws charging power from the surplus PV power and the grid.
- "Battery Boost" is only used to set whether the battery pack discharges power to the Sigen EV AC Charger.
- Drag the device under the "Surplus PV Priority" menu to set the priority of using the surplus PV power (the priority is from top to bottom).

- **PV storage and charging system wiring**

When the generated PV power meets the power demand of loads but the surplus PV power is insufficient, power is obtained from the grid. Set "Grid Charging" to and set the value for "The maximum power from the grid". When the surplus PV power is sufficient, power is supplied to the device according to the set priority.

- **PV storage and charging system wiring**

When "Battery Boost" is set to and the device that uses the surplus PV power is set to the Sigen EV AC Charger taking priority over the battery pack, once the generated PV power meets the power demand of loads, the surplus PV power and the discharging power of battery pack are both supplied to the Sigen EV AC Charger for charging vehicles. When the surplus PV power is insufficient, power is obtained from the grid. Set "Grid Charging" to and set the value for "The maximum power from the grid".

When the device that uses the surplus PV power is set to the battery pack taking priority over the Sigen EV AC Charger, the surplus PV power is supplied to the Sigen EV AC Charger for charging vehicles. When the surplus PV power is insufficient, power is obtained from the grid. Set "Grid Charging" to and set the value for "The maximum power from the grid".

Examples of daytime usage scenarios for the Sigen EV AC Charger in PV charging or PV storage and charging system wiring.

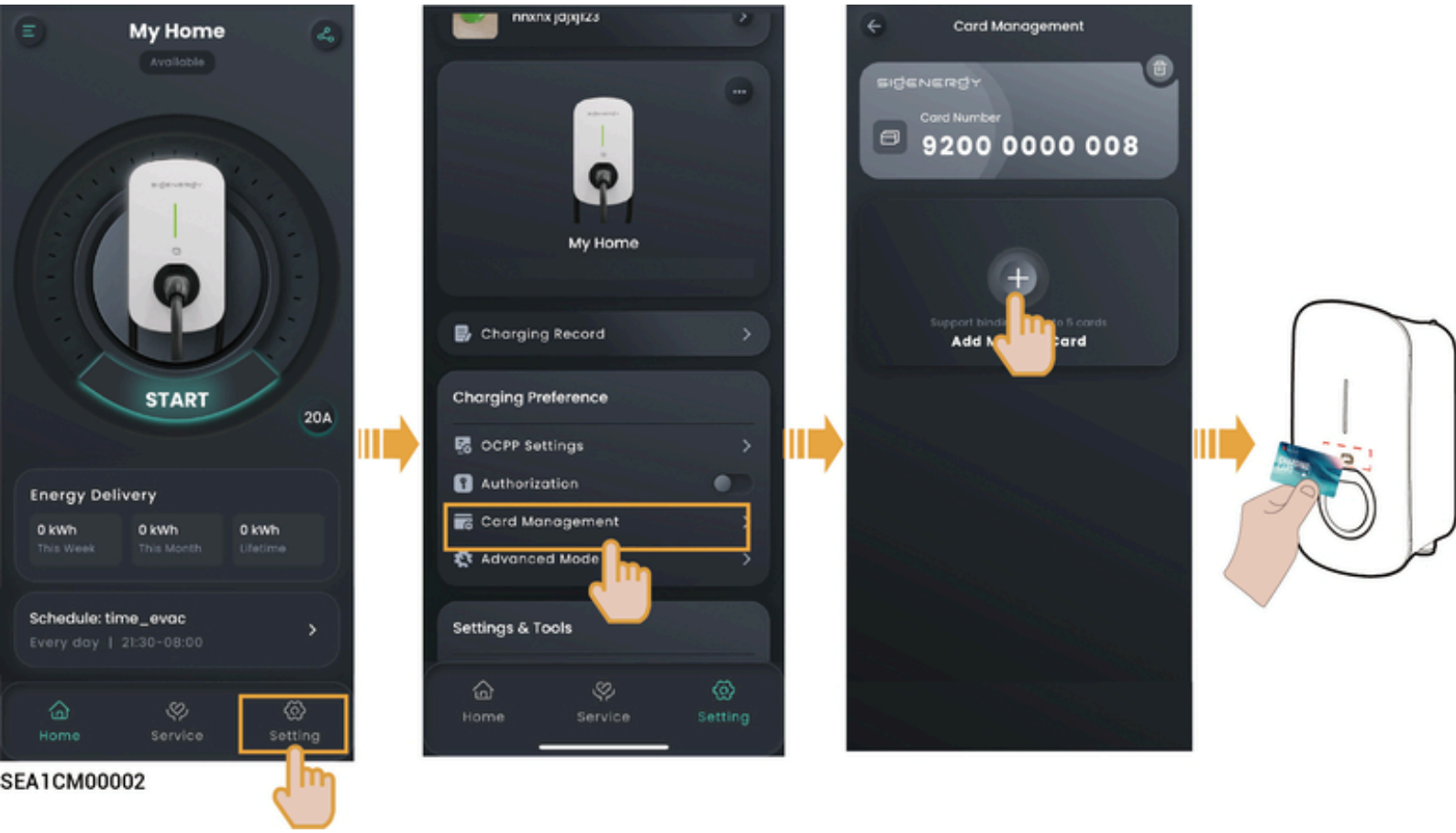
Model: Sigen EVAC 11 4G T2 WH; Output Mode: three-phase.

A	B	C	D	E
Generated power of PV system or generated power of PV system + discharging power of battery pack (kW)	Consumed power of load (kW)	Compensating power of grid (kW) C=(D-(A-B))	Actual charging power (kW)	The maximum power from the grid set value (kW)
20	15	0	5	4.14
20	18	2.14	4.14	4.14
20	25	9.14[1]	4.14	4.14
20	15	0	5	1
20	16	0.14	4.14	1
20	18	2.14[2]	4.14[2]	1

- When the DLM function is enabled, the minimum starting charging power of Sigen EV AC Charger is 5.52 kW (three-phase output) or 1.84 kW (single-phase output). In other cases (Fast Charging), the minimum starting charging power of Sigen EV AC Charger is 4.14 kW (three-phase output) or 1.38 kW (single-phase output).
- Note [1]: In this scenario, if the generated PV power or the generated PV power together with the discharging power of the battery pack is consumed by the loads, there is still a need for 4.14 kW of grid input power. The charging power of the Sigen EV AC Charger must be sourced from the grid, and the actual charging power must be less than or equal to the set value of "The maximum power from the grid."
- Note [2]: In this scenario, after the generated power of the PV system or generated power of the PV system + discharging power of the battery pack is consumed by the loads, 2 kW remains. The surplus PV power can be used to charge the Sigen EV AC Charger. The minimum starting charging power of the Sigen EV AC Charger is 4.14 kW, which requires 2.14 kW of grid input power. If the grid input power of Sigen EV AC Charger exceeds the set value of "The maximum power from the grid," the charging will continue for 6 minutes. If, after 6 minutes, the actual charging power still exceeds the set value of "The maximum power from the grid," the Sigen EV AC Charger will stop charging.

Networking of the Charger

Binding Sigen RFID Card



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Tips

If an error occurs when you bind the Sigen RFID Card, you can click and delete the Sigen RFID Card on the "Card Management" page.

Use of Equipment

Sigen EV AC Charger supports App authenticated charging, RFID card authenticated charging, unauthenticated charging, and scheduled charging.

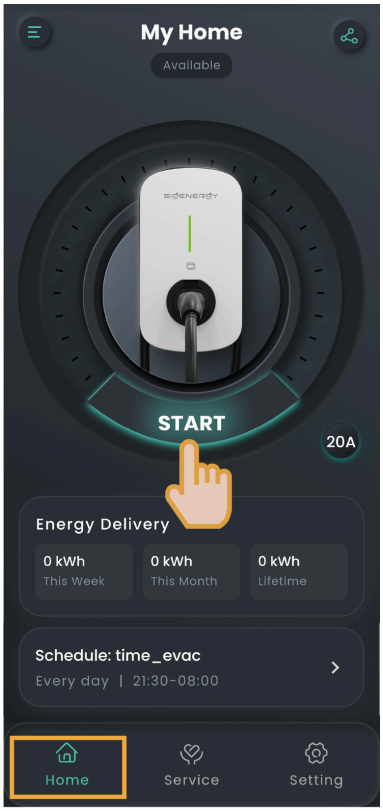
⚠ Caution

- **I Please carefully read vehicle-related precautions and requirements before charging vehicles.**
- **Before charging, please check that you have set the charging mode to your desired one. For details, refer to Instructions to Charging Modes.**

App authenticated or RFID card authenticated charging (Recommended)

1. Install the charging connector in place.
2. Start charging on the equipment.

- **Method 1: App authenticated charging**



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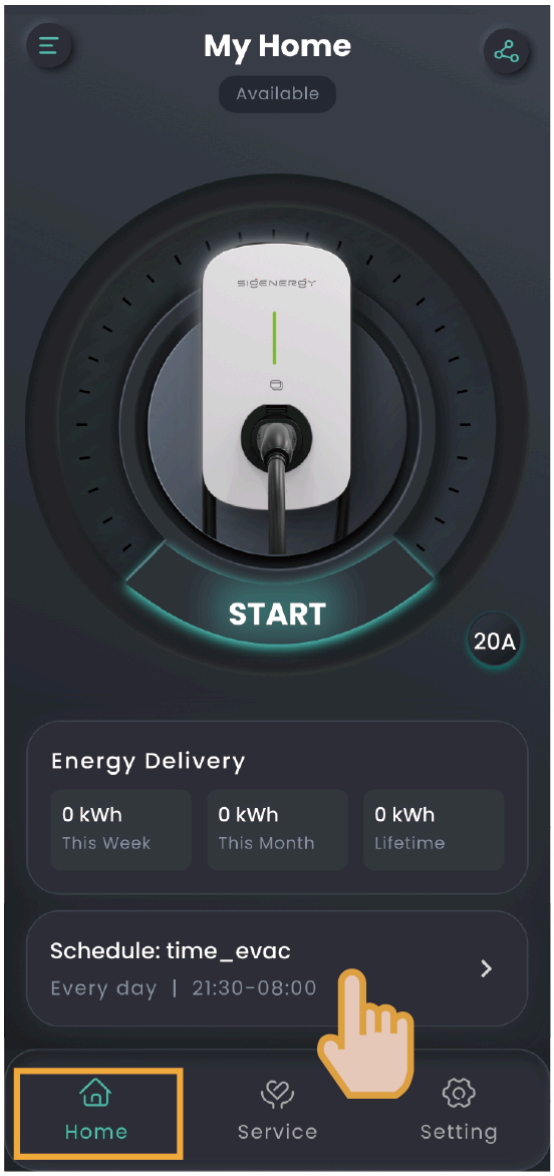
- **Method 2: RFID card authenticated charging**

Swipe the Sigen RFID Card.

Scheduled Charging



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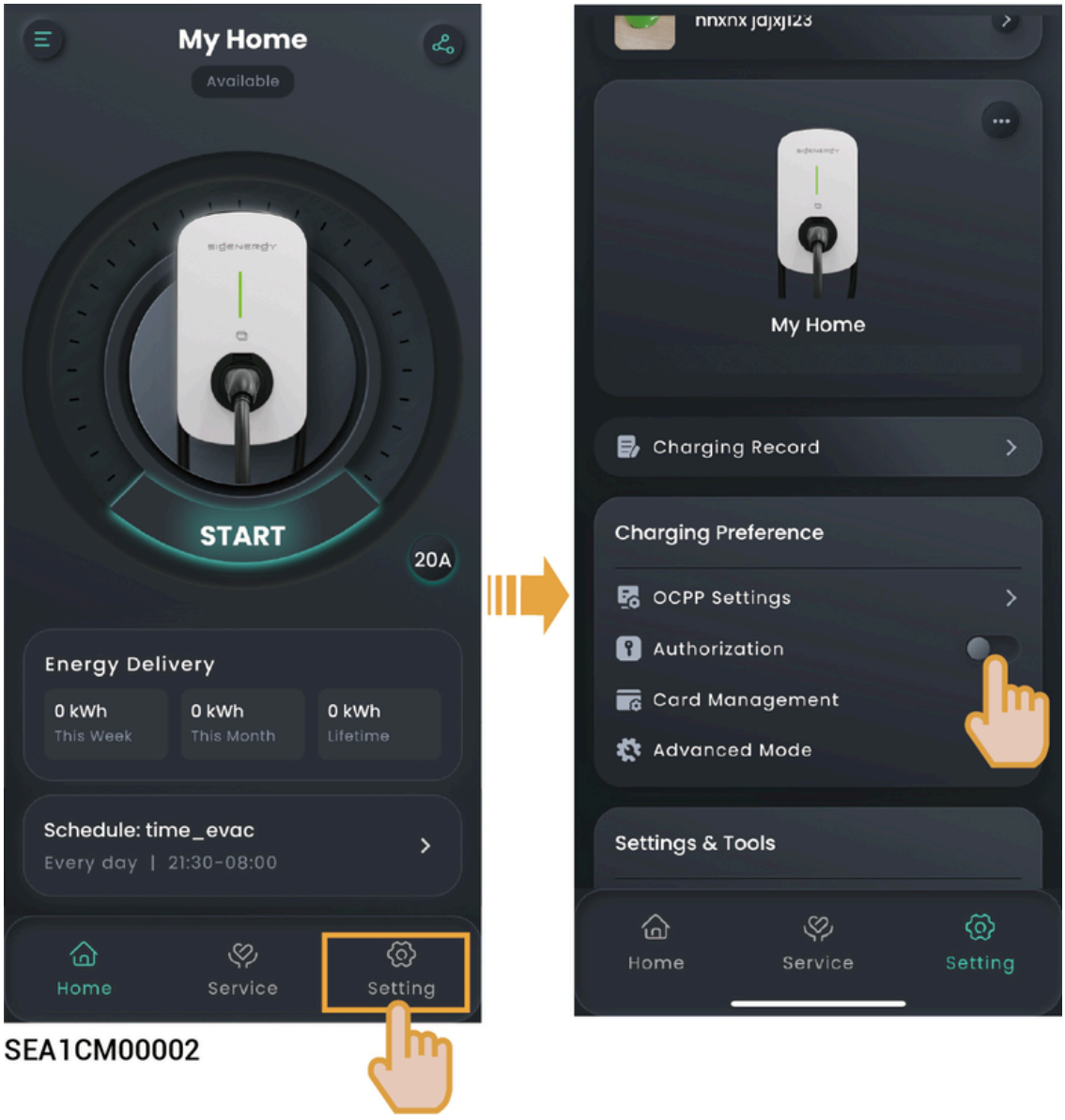
Tips

- **Add the time range available for charging, during which the system will automatically start charging when a vehicle meets charging conditions (the charging connector is installed, and the vehicle is ready to be charged).**
- **The system will not start charging or will automatically stop charging if the current time is not within the set time range. To start charging, use the App authenticated charging mode or RFID card authenticated charging mode, or change the time range available for charging.**

Unauthenticated Charging Mode

1. Turn "Authorization" off, that is,  .



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2. Install the charging connector in place.

Tips

It should be noted that when the unauthenticated charging mode is enabled, any vehicles can use this equipment for charging.

Stop Charging

Charging completed

The equipment will automatically stop charging when the vehicle is fully charged.

During charging

- **Method 1: RFID card authenticated**

Read your Sigen RFID Card to stop charging.

- **Method 2: App authenticated**

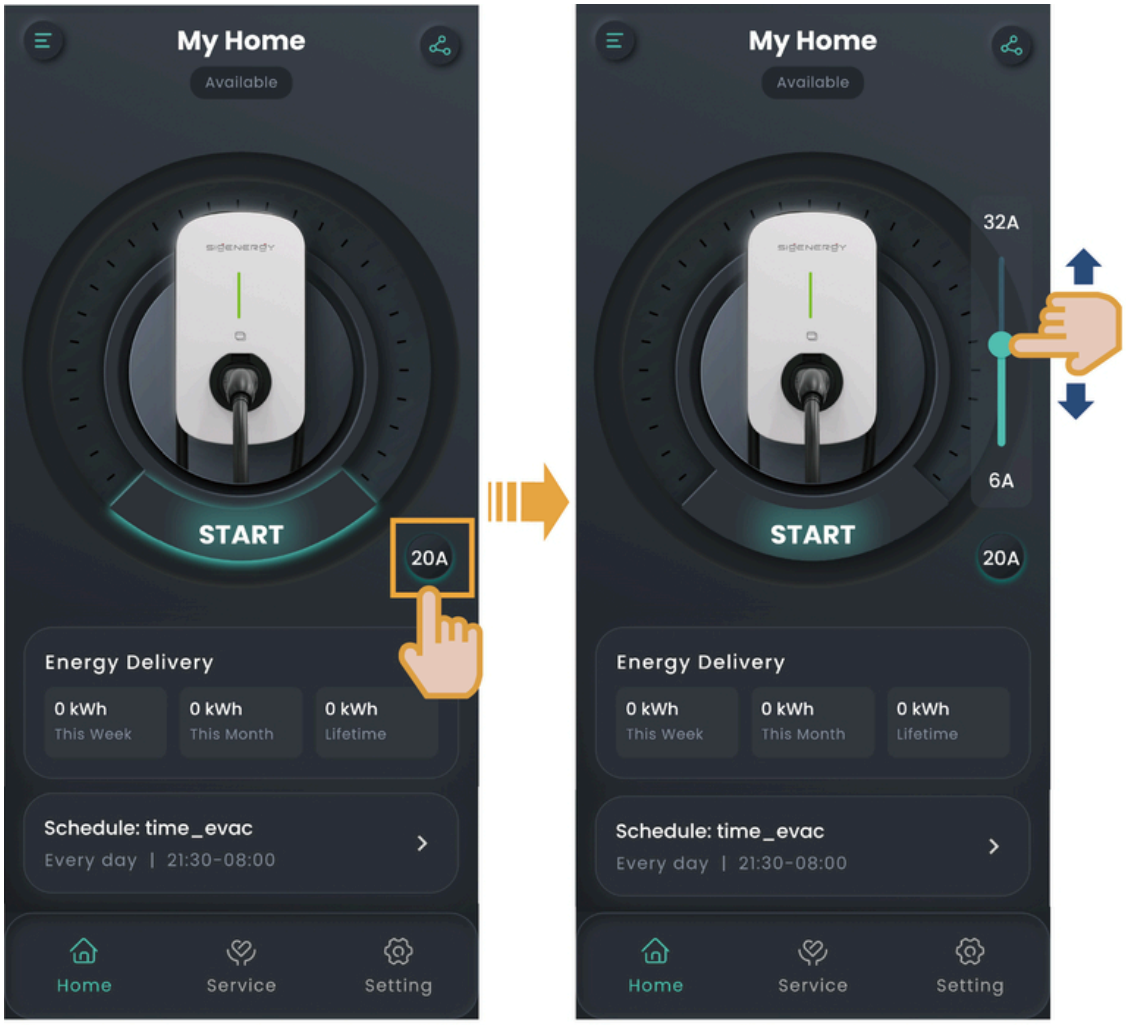
Click "STOP" on the "Home" page to stop charging.

Charging Current Adjustment

Tips

The higher the output current is, the higher the charging power is.

Manual adjustment



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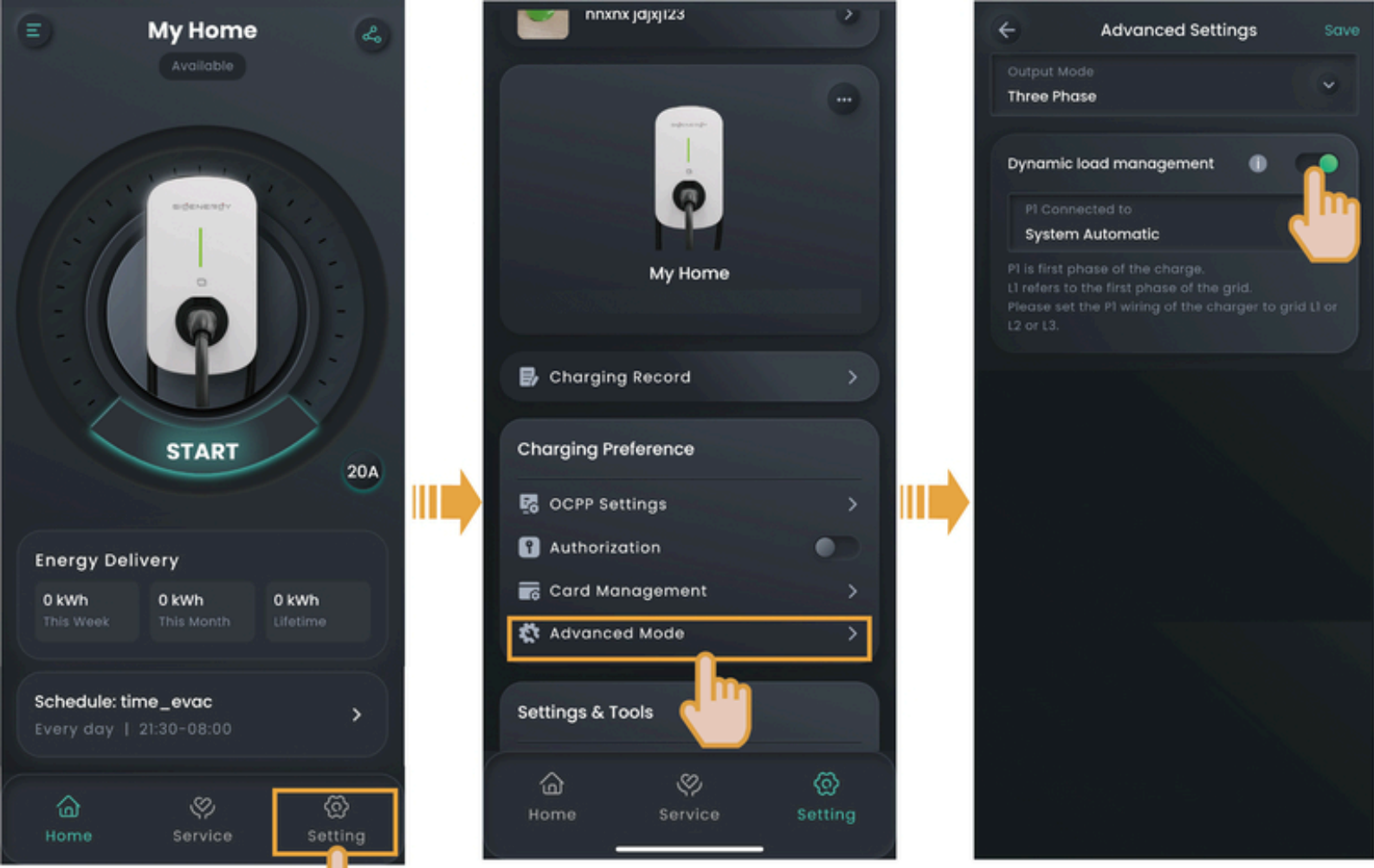
Adjustment by DLM

When Power Sensor is installed in the networking and is not in off-grid state, Sigen EV AC Charger will support dynamic load management (DLM). Sigen EV AC Charger quickly and intelligently adjusts the charging current (power) by comparing the power at the grid-connection point reported by the Power Sensor with the "Rated Household Circuit Breaker Current" set by the installer when creating new systems. This prevents the household circuit breaker (inside the distribution panel) from being disconnected.



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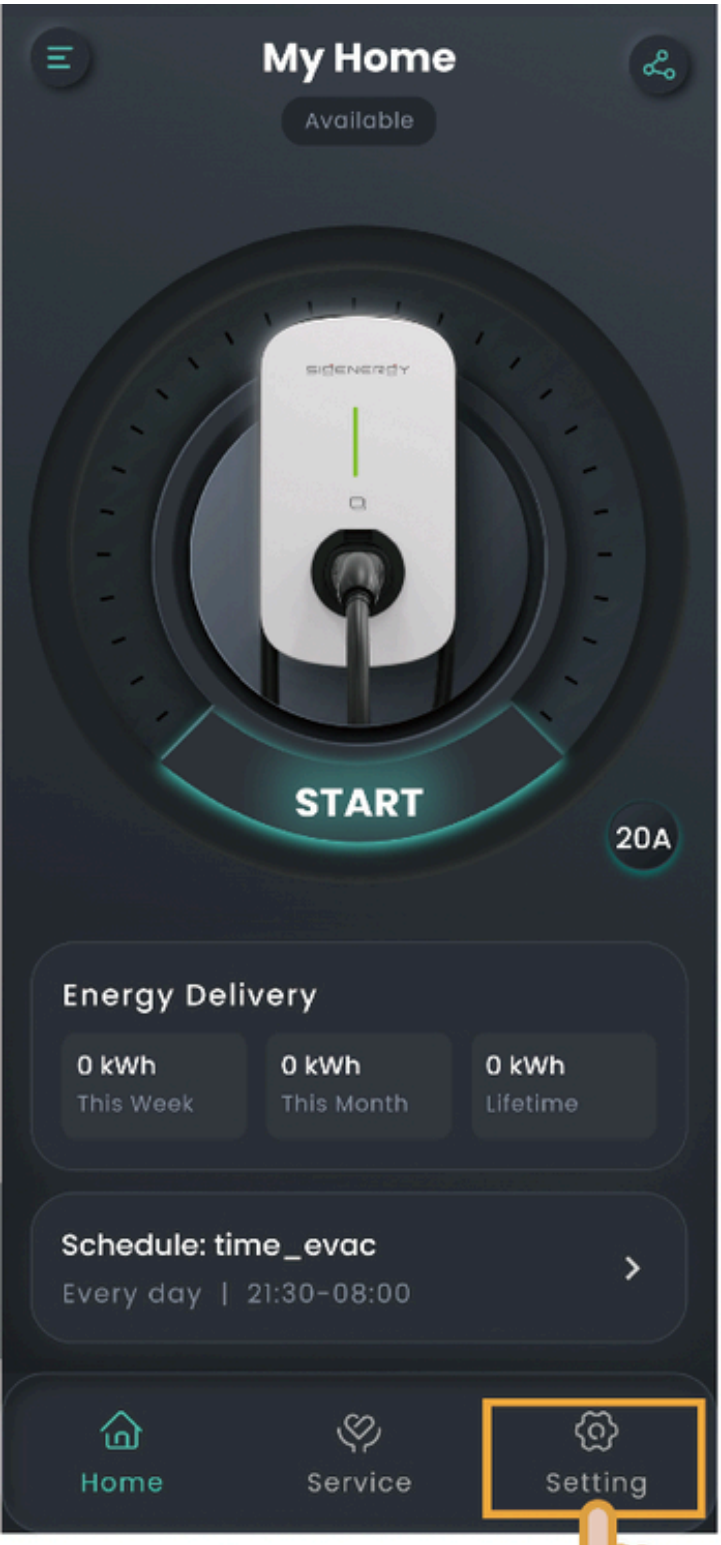
OCPP Settings

If you want to manage the Sigen EV AC Charger through a third-party platform, you can authorize it by configuring the OCPP settings.



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PV Charging or PV Storage & Charging Networking

Binding Sigen RFID Card

Tips

If an error occurs when you bind the RFID Card, you can click and delete the RFID Card on the "Card Management" page.

Use of Equipment

Sigen EV AC Charger supports App authenticated charging, RFID card authenticated charging, unauthenticated charging, and scheduled charging.

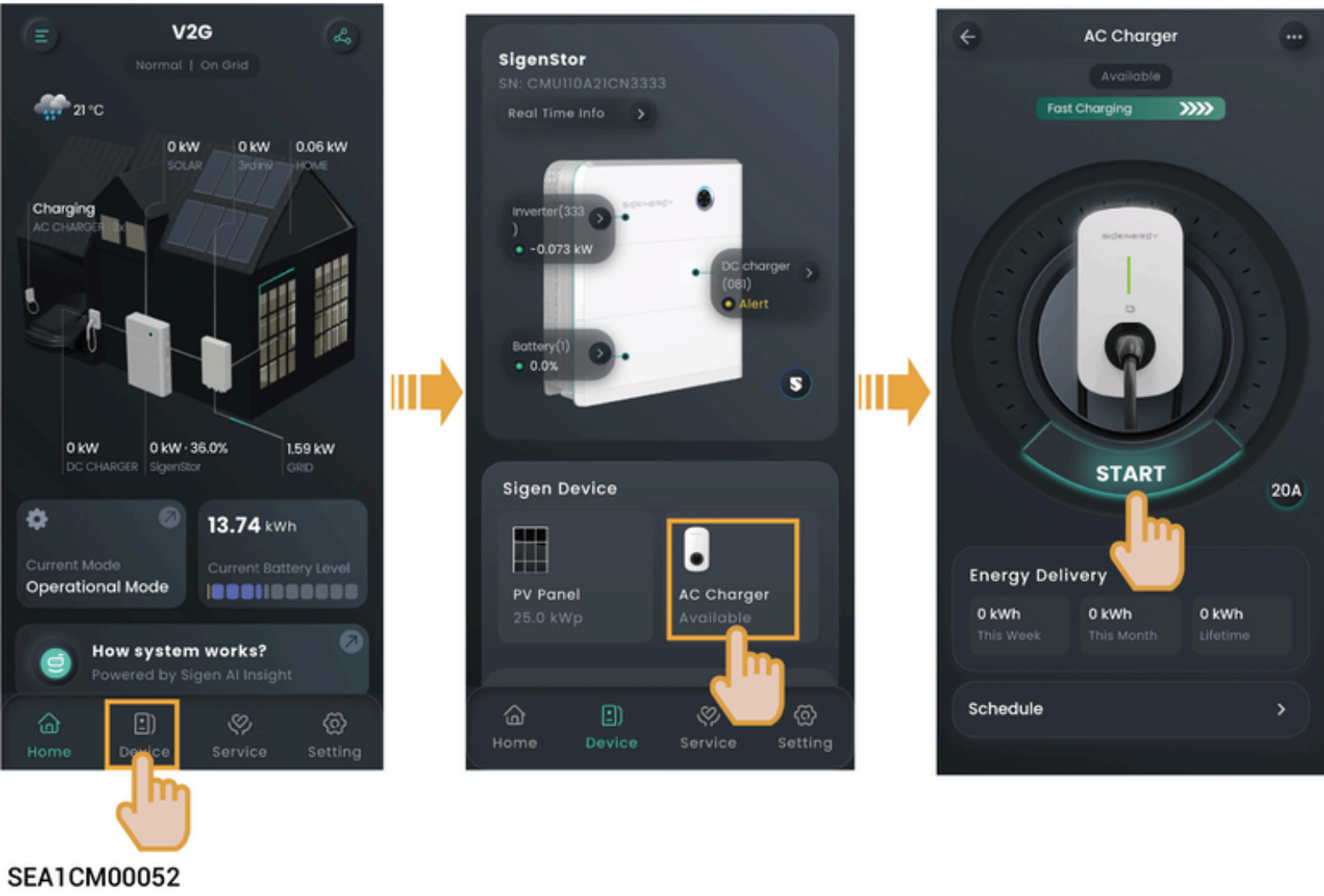
Tips

- **Please carefully read vehicle-related precautions and requirements before charging vehicles.**
- **Before charging, please check that you have set the charging mode to your desired one. For details, refer to Instructions to Charging Modes.**

App authenticated or RFID card authenticated charging (Recommended)

1. Install the charging connector in place.
2. Start charging on the equipment.

- **Method 1: App authenticated charging**



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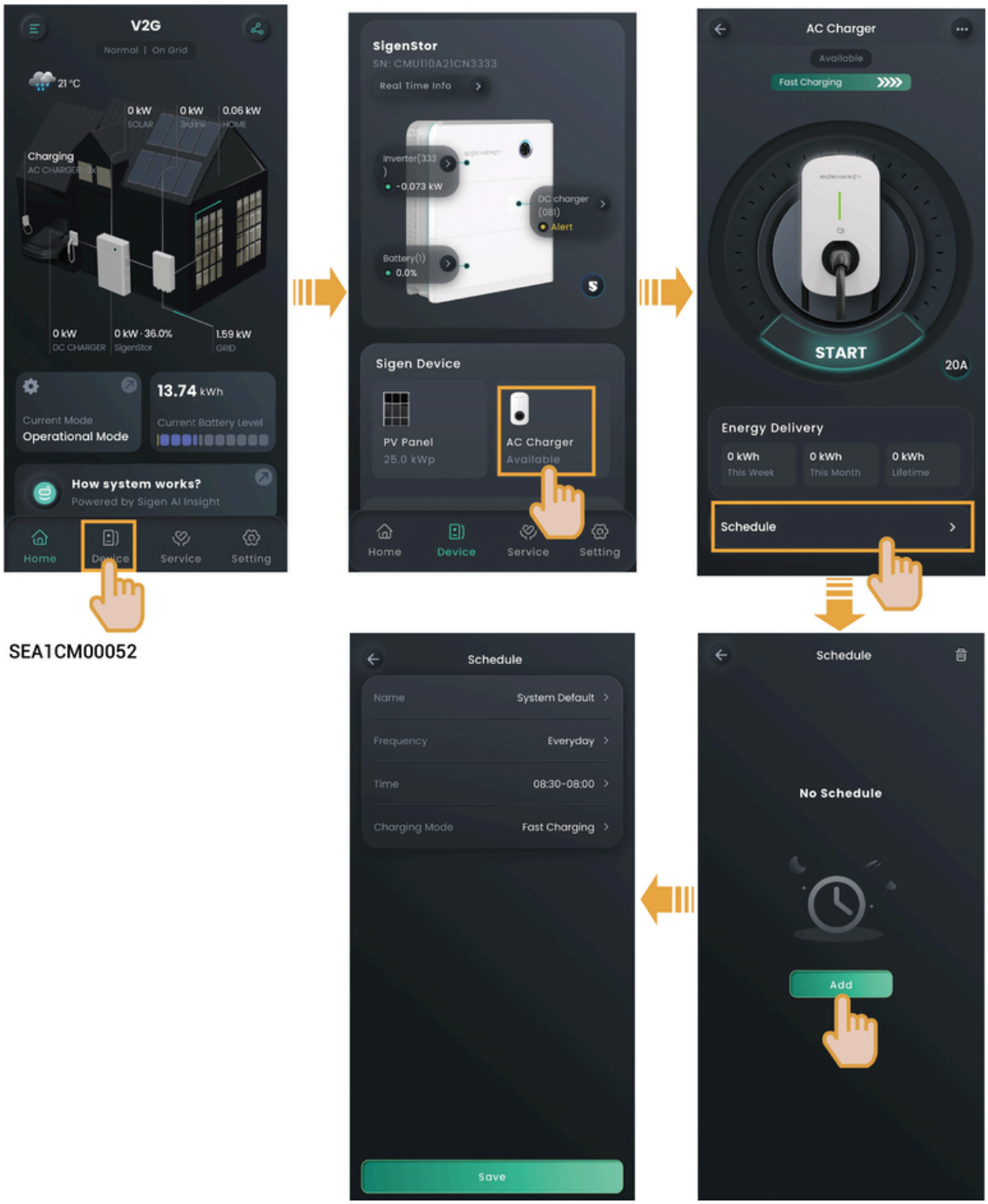
- **Method 2: RFID card authenticated charging**

Swipe the RFID Card.

Scheduled Charging



Tips

- **Add the time range available for charging, during which the system will automatically start charging when a vehicle meets charging conditions (the charging connector is installed, and the vehicle is ready to be charged).**
- **When adding a time range, you can set the charging mode for each time range (for an explanation of the charging mode, see Charging Mode Introduction). The system will prioritize the execution of charging mode according to the scheduled commands. For the unscheduled time ranges, the charging mode will be executed according to the commands in the setting menu shown in the Charging Mode Introduction.**
- **The system will not start charging or will automatically stop charging if the current time is not within the set time range. To start charging, use the App authenticated charging mode or RFID card authenticated charging mode, or change the time range available for charging.**

Unauthenticated Charging Mode

1. Turn "Authorization" off, that is,  .

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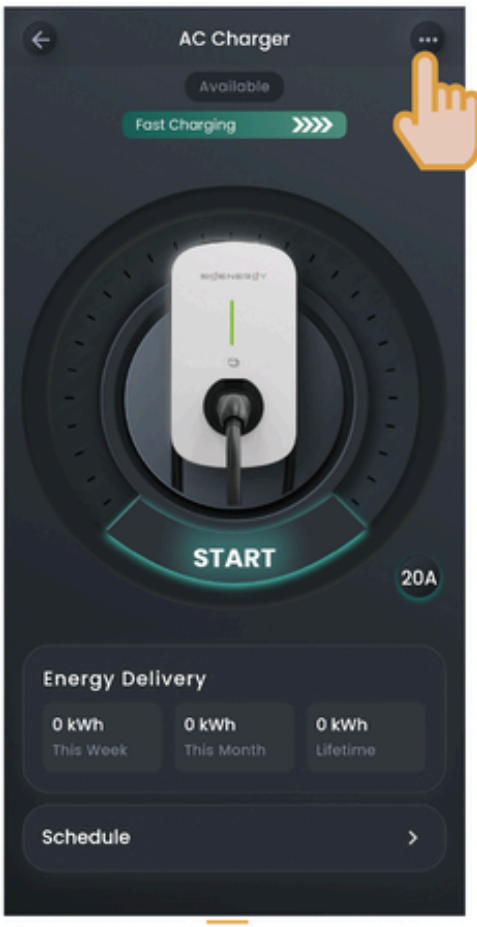
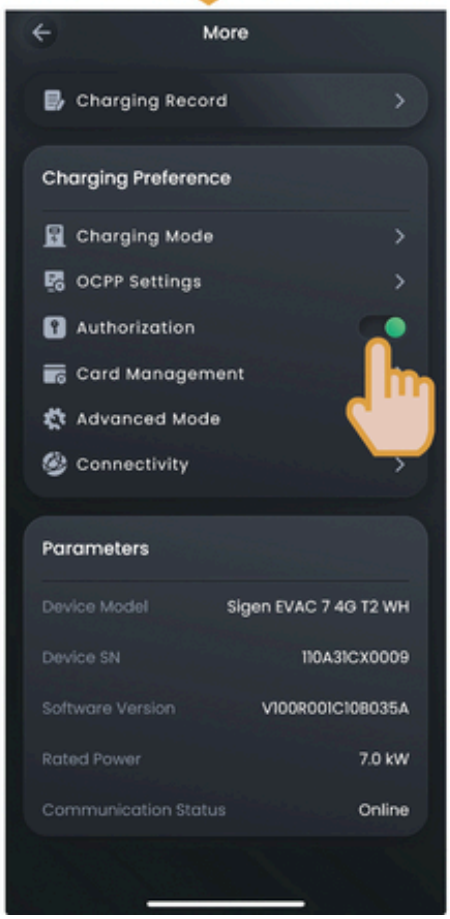




2. Install the charging connector in place.

Tips

It should be noted that when the unauthenticated charging mode is enabled, any vehicles can use this equipment for charging.

Stop Charging

Charging completed

The equipment will automatically stop charging when the vehicle is fully charged.

During charging

- **Method 1: RFID card authenticated**

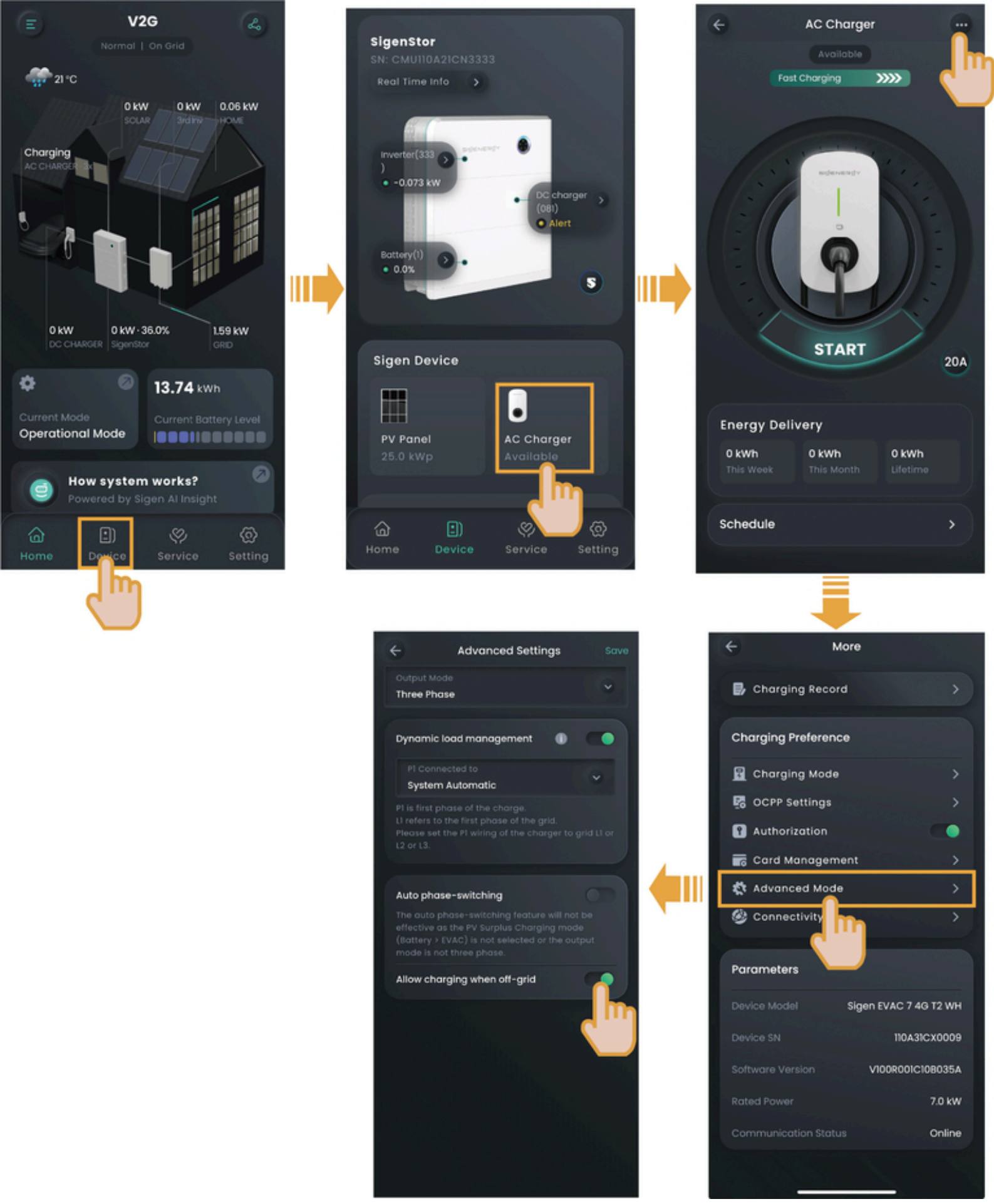
Read your Sigen RFID Card to stop charging.

- **Method 2: App authenticated**

Stop charging from "Device" → "AC Charger" → "STOP."

Off-grid Charging Settings

When PV storage and charging networking is adopted and the device is connected to the Sigen Gateway, if you want to use the Sigen EV AC Charger to charge the vehicle off-grid, you can set this parameter.

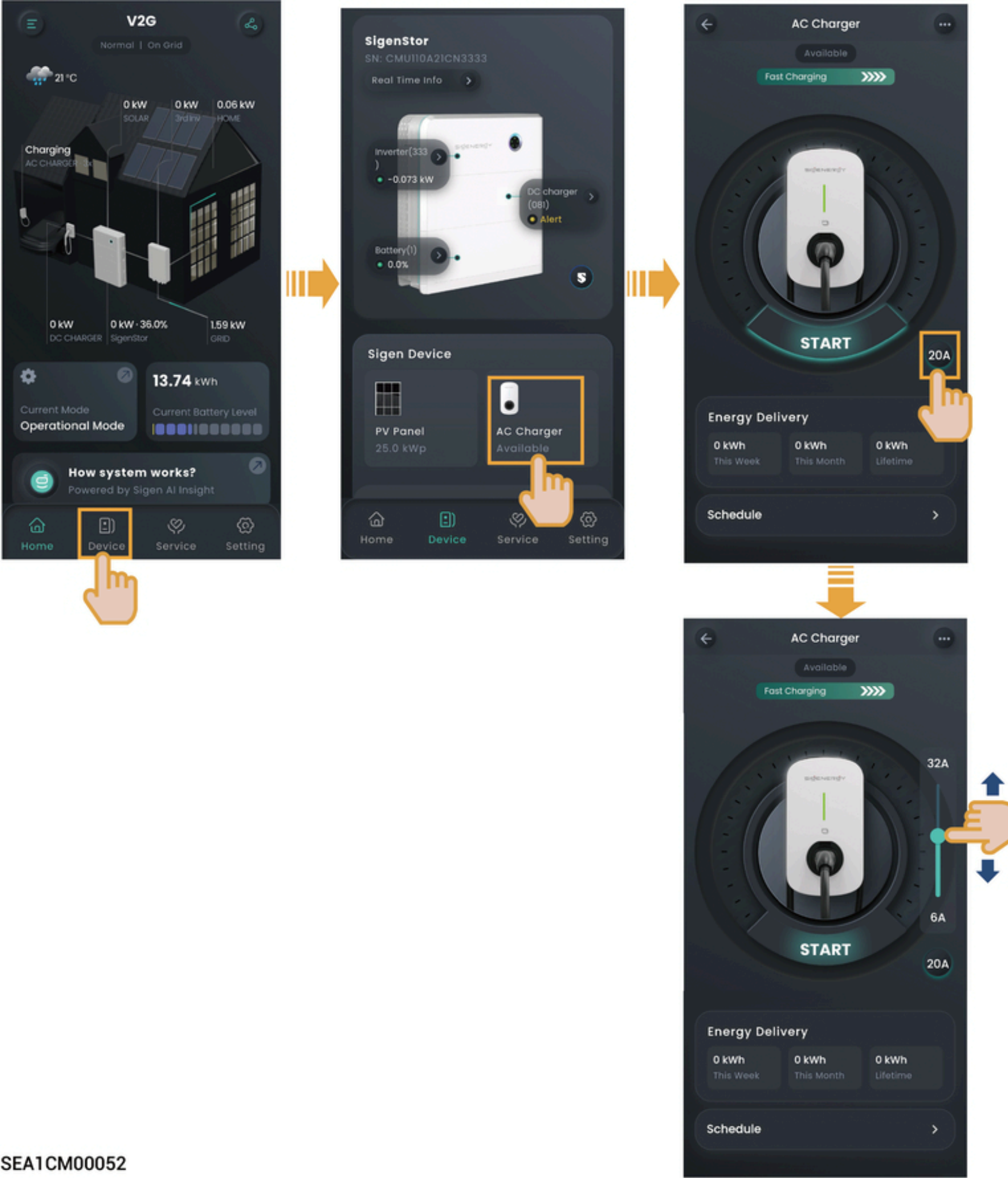

V2G
Normal | On Grid
21 °C
0 kW
SOLAR
0 kW
3rd inv
0.06 kW
HOME
Charging
AC CHARGER 3x
0 kW
DC CHARGER
0 kW · 36.0%
SigenStor
1.59 kW
GRID
13.74 kWh
Current Battery Level
Current Mode
Operational Mode
How system works?
Powered by Sigen AI Insight
Home
Device
Service
Setting
SigenStor
SN: CMU110A21CN3333
Real Time Info
Inverter(333
)
-0.073 kW
DC charger
(081)
Alert
Battery(1)
0.0%
Sigen Device
PV Panel
25.0 kWp
AC Charger
Available
Home
Device
Service
Setting
AC Charger
Available
Fast Charging
START
20A
Energy Delivery
0 kWh
This Week
0 kWh
This Month
0 kWh
Lifetime
Schedule
More
Charging Record
Charging Preference
Charging Mode
OCPP Settings
Authorization
Card Management
Advanced Mode
Connectivity
Parameters
Device Model
Sigen EVAC 7 4G T2 WH
Device SN
110A31CX0009
Software Version
V100R001C108035A
Rated Power
7.0 kW
Communication Status
Online
Advanced Settings
Save
Output Mode
Three Phase
Dynamic load management
PI Connected to
System Automatic
PI is first phase of the charge.
LI refers to the first phase of the grid.
Please set the PI wiring of the charger to grid LI or
L2 or L3.
Auto phase-switching
The auto phase-switching feature will not be
effective as the PV Surplus Charging mode
(Battery > EVAC) is not selected or the output
mode is not three phase.
Allow charging when off-grid

Charging Current Adjustment

Tips

The higher the output current is, the higher the charging power is.

Manual adjustment



SEA1CM00052

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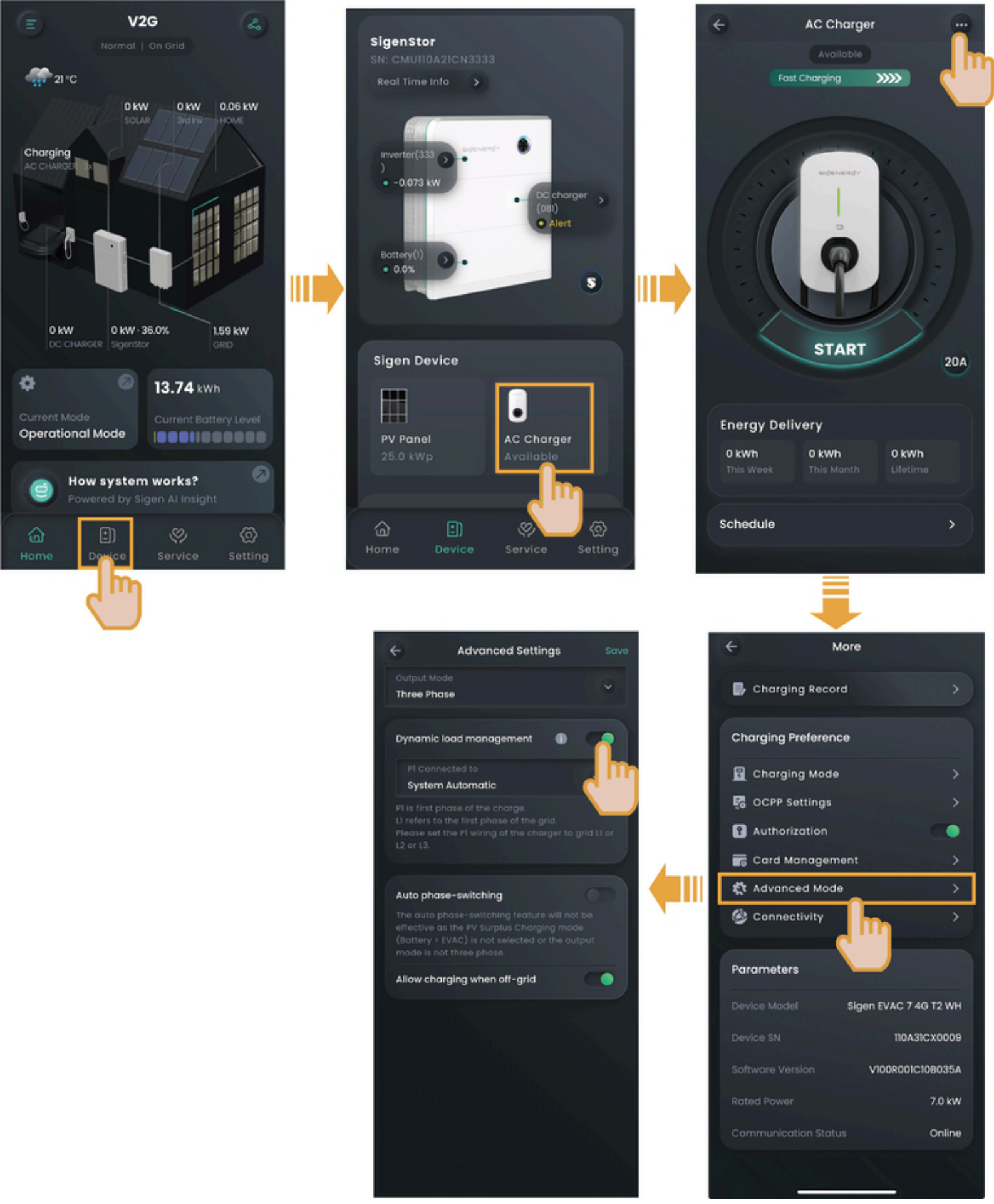
In this case, you cannot manually adjust the charging current.


V2G
Normal | On Grid
21 °C
0 kW
SOLAR
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3rd inv
0.06 kW
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Charging
AC CHARGER 3x
0 kW
DC CHARGER
0 kW · 36.0%
SigenStor
1.59 kW
GRID
13.74 kWh
Current Mode
Operational Mode
Current Battery Level
How system works?
Powered by Sigen AI Insight
Home
Device
Service
Setting
SigenStor
SN: CMUI10A21CN3333
Real Time Info
Inverter(333
)
-0.073 kW
DC charger
(081)
Alert
Battery(1)
0.0%
Sigen Device
PV Panel
25.0 kWp
AC Charger
Available
Home
Device
Service
Setting
AC Charger
Available
Fast Charging
START
20A
Energy Delivery
0 kWh
This Week
0 kWh
This Month
0 kWh
Lifetime
Schedule
More
Charging Record
Charging Preference
Charging Mode
OCPP Settings
Authorization
Card Management
Advanced Mode
Connectivity
Parameters
Device Model
Sigen EVAC 7 4G T2 WH
Device SN
110A31CX0009
Software Version
V100R001C108035A
Rated Power
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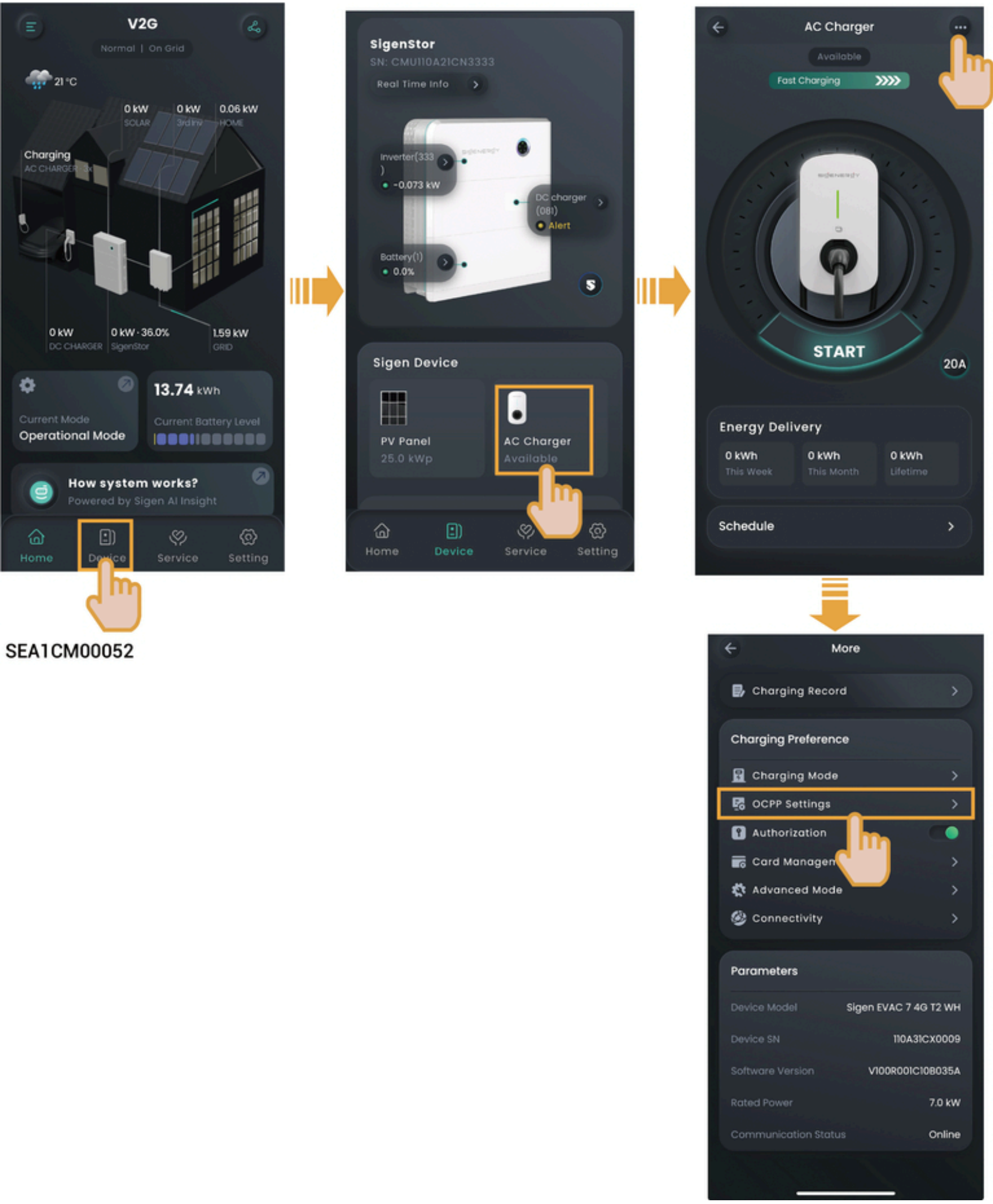

Other Settings of mySigen App

For more information about the app settings, refer to *mySigen App User Manual*.

Routine Maintenance

To ensure the long-term running of the equipment, you are advised to perform routine maintenance according to this section.

Inspection content	Inspection method	Power off or not	Maintenance cycle
System cleaning	Regularly check the equipment for blocking out or dust contamination. If so, clean it up. Do not use tools that may cause electric shock or insulation damage, such as wire brushes and wet towels during the cleaning process.	Yes	Once every three months.
System running state	• Check whether the equipment is damaged or deformed. • Listen for any abnormal noises during the operation of the equipment. • When the equipment is running, check whether the equipment parameters are correctly set.	No	Once every six months.

Appendix

For details about equipment parameters, see the Data sheets of the product.