

Sigen EV AC Charger Charger

User Manual (US)

Sigen EVAC 9.6 WI N6 (T1, TS) WH

Sigen EVAC 9.6 WI N14 (T1, TS) WH

Sigen EVAC 11.5 WI (T1, TS) WH

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Revision History

Version	Date	Description
Draft A	2025.12.11	Beta version.

Overview

Introduction

This document mainly introduces Sigen EVAC 9.6 WI N6 (T1, TS) WH, Sigen EVAC 9.6 WI N14 (T1, TS) WH, Sigen EVAC 11.5 WI (T1, TS) WH (hereinafter referred to as Sigen EVAC), and their 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	Danger. Failure to comply may result in death or serious personal injury.
 Warning	Warning. Failure to comply may result in serious personal injury or property damage.
 Caution	Caution. Failure to comply may result in property damage.
Tips	Important or key information, and supplementary operation tips.

Chapter 1 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 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 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 forcibly bend parts on the equipment.
- Carbon dioxide fire extinguishers and ABC dry powder fire extinguishers are recommended at home.
- If the equipment cannot be charged, please contact your 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.

Chapter 2 Product Introduction

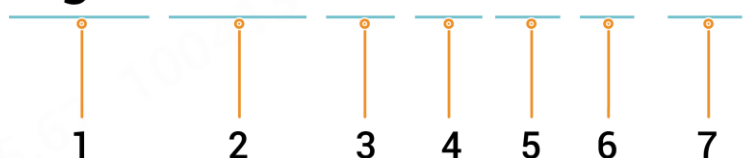
2.1 Model Designation

Model specifications of the Sigen EV AC Charger include the following:

- Sigen EVAC 9.6 WI N6 T1 WH
- Sigen EVAC 9.6 WI N6 TS WH
- Sigen EVAC 9.6 WI N14 T1 WH
- Sigen EVAC 9.6 WI N14 TS WH
- Sigen EVAC 11.5 WI T1 WH
- Sigen EVAC 11.5 WI TS WH

Fig.1-1 Model designation (example)

Sigen EVAC 9.6 WI N6 T1 WH



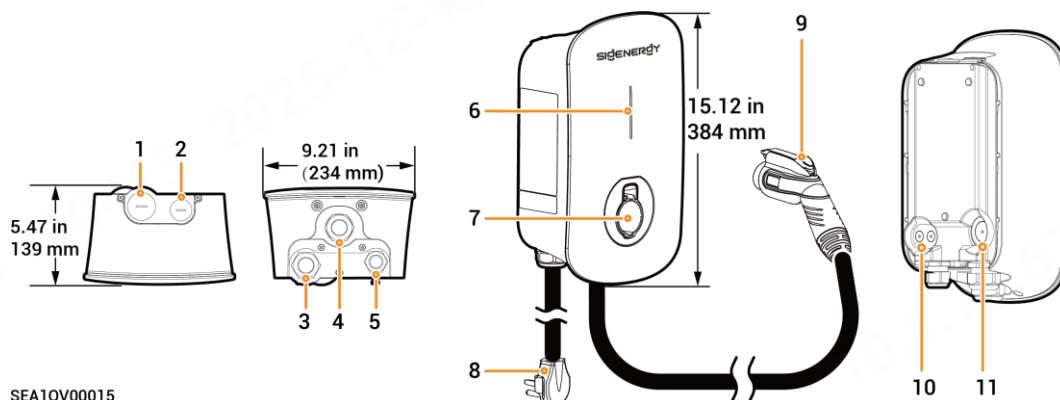
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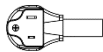
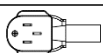
S/N	Definitions	Description
1	Brand name	-
2	Charger type	EVAC: EV AC charger
3	Power range (phase voltage is 240 V)	● 9.6: 9.6 kW ● 11.5: 11.5 kW
4	Features	➤ Supported communication modes: ● Ethernet communication ● WLAN communication ➤ Supported charging methods: ● App authenticated charging ● Unauthenticated 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	Input port	● N6: Factory pre-installed AC cable with an exposed length of 21.65 in (55 cm) and a NEMA 6-50 input plug. ● N14: Factory pre-installed AC cable with an exposed length of 21.65 in (55 cm) and a NEMA 14-50 input plug. ● Other models: For Hardwire connection method, you need to install the AC cable yourself.
6	Output port	● T1: Type 1 charging connector complying with SAE J1772 ● TS: NACS charging connector complying with SAE J3400
7	Color	WH: White

2.2 Product Appearance

PG EVAC 9.6 WI N6 (T1, TS) WH、PG EVAC 9.6 WI N14 (T1, TS) WH



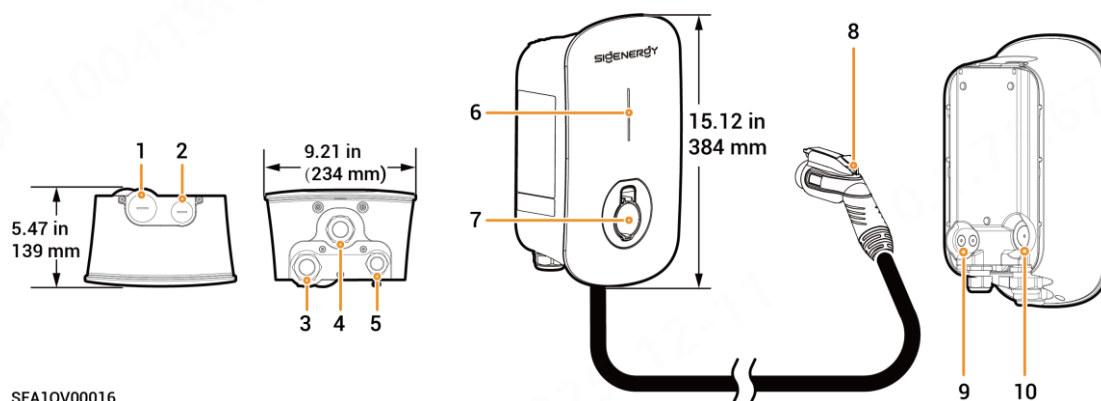
No.	Description		
1	(Reserved) Top routing hole		
2	Top routing hole for communication cable		
3	Bottom routing hole for AC input cable		
4	Bottom routing hole for charging cable		
5	Bottom routing hole for communication cable		
6	Indicator		
7	Charging connector holder		
8	NEMA 6-50 plug		Sigen EVAC 9.6 WI N6 T1 WH Sigen EVAC 9.6 WI N6 TS WH
	NEMA 14-50 plug		Sigen EVAC 9.6 WI N14 T1 WH Sigen EVAC 9.6 WI N14 TS WH
9	Charging connector		Sigen EVAC 9.6 WI N6 TS WH Sigen EVAC 9.6 WI N14 TS WH
			Sigen EVAC 9.6 WI N6 T1 WH Sigen EVAC 9.6 WI N14 T1 WH
10	Rear routing hole for communication cable		
11	Rear routing hole for AC cable		

Caution

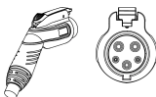
- You are advised to connect cables through bottom routing holes (holes 3 and 5).

- If cables are connected through the top routing hole (hole 2), please install the equipment in a sheltered location to prevent water ingress after prolonged water accumulation on the top.

Sigen EVAC 11.5 WI (T1, TS) WH



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No.	Description		
1	Top routing hole for AC input cable		
2	Top routing hole for communication cable		
3	Bottom routing hole for AC input cable		
4	Bottom routing hole for charging cable		
5	Bottom routing hole for communication cable		
6	Indicator		
7	Charging connector holder		
8	Charging connector		Sigen EVAC 11.5 WI TS WH
			Sigen EVAC 11.5 WI T1 WH
9	Rear routing hole for communication cable		
10	Rear routing hole for AC cable		



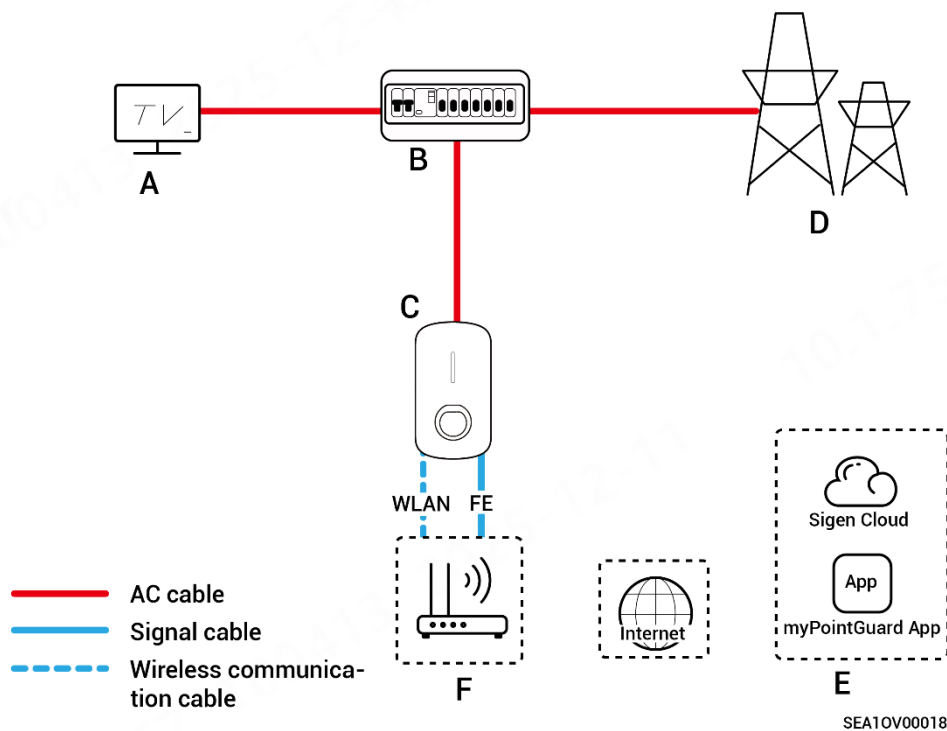
- **You are advised to connect cables through bottom routing holes (holes 3 and 5).**
- **If cables are connected through top routing holes (holes 1 and 2), please install the equipment in a sheltered location to prevent water ingress after prolonged water accumulation on the top.**

2.3 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

2.4 Typical Networking

Networking configuration of the charger



A. Power equipment

B. Distribution panel

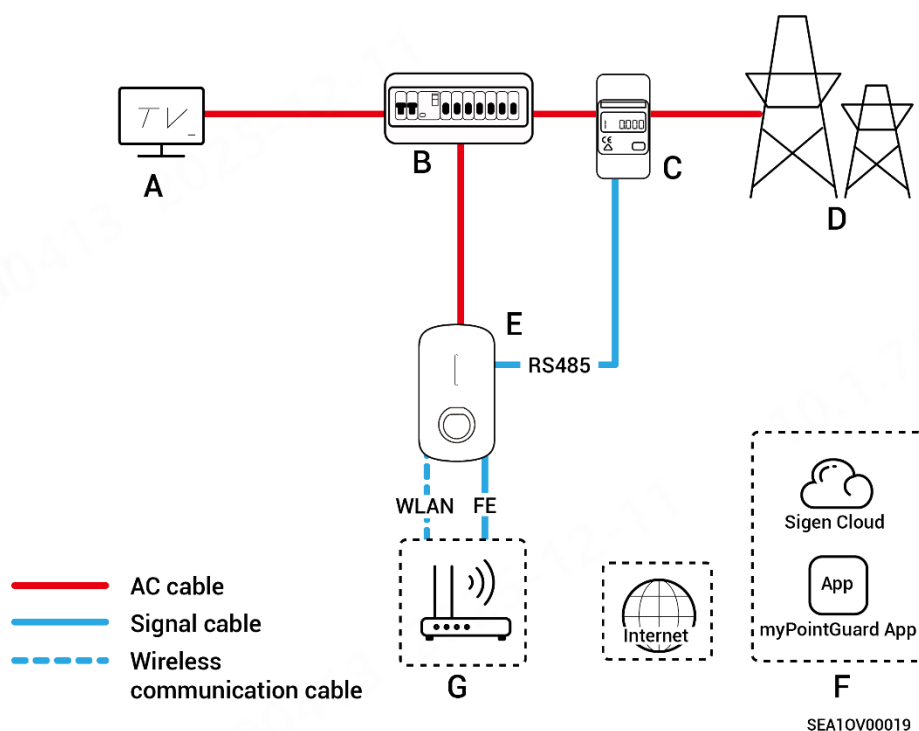
C. Sigen EVAC

D. Power grid

E. mySigen

F. Router

Networking configuration of the charger (with DLM)



A. Power equipment **B.** Distribution panel **C.** Power Sensor
D. Sigen EVAC **E.** Power grid **F.** mySigen **G.** Router

Tips

The Sigen EVAC supports communication via FE or WLAN to connect to the Sigenstor Home energy storage system. For more details, please contact the Sigenstor Home energy storage system installer or sales representative.

Chapter 3 Location Requirements

Tips

The warranty applies when the equipment has been installed properly for its intended use and in accordance with the operating instructions.

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 1640.42 ft (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).

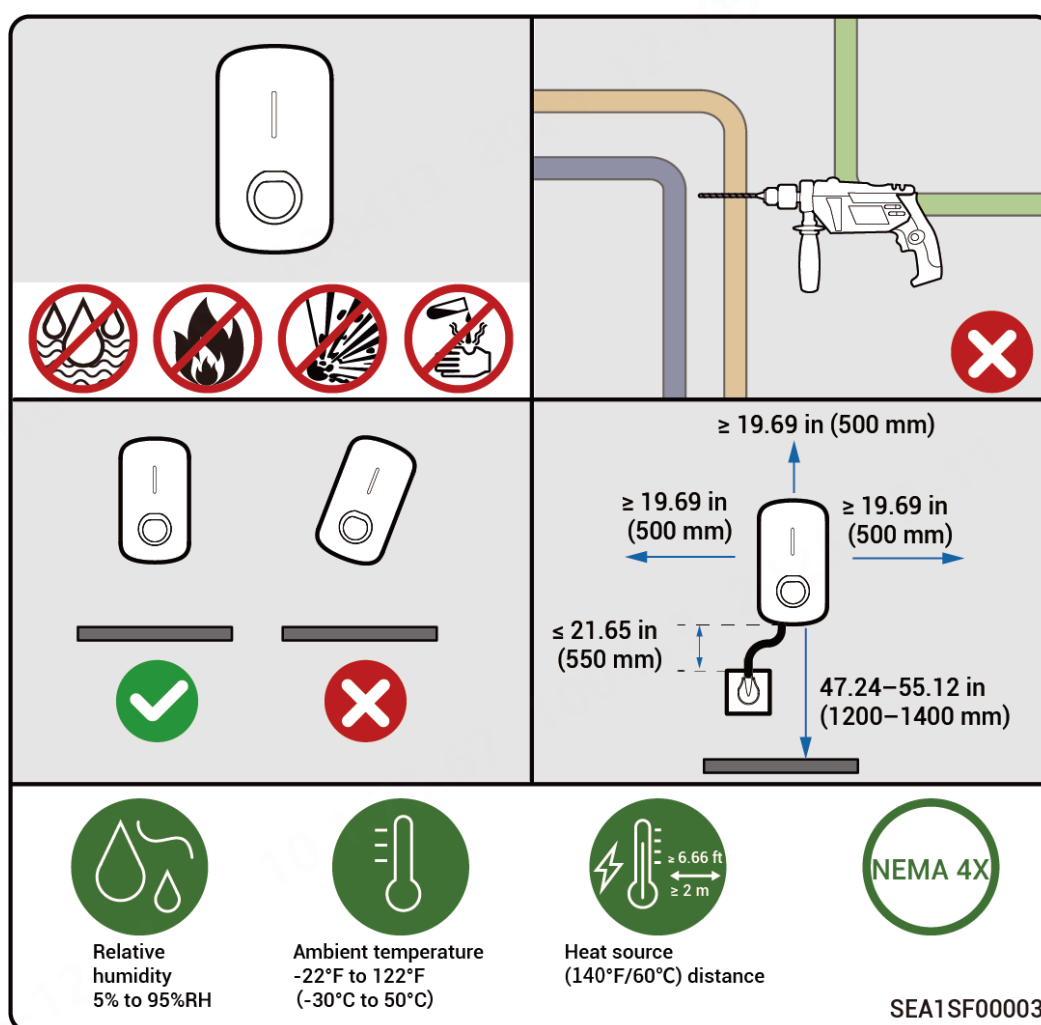
Installation Position Requirements

- 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

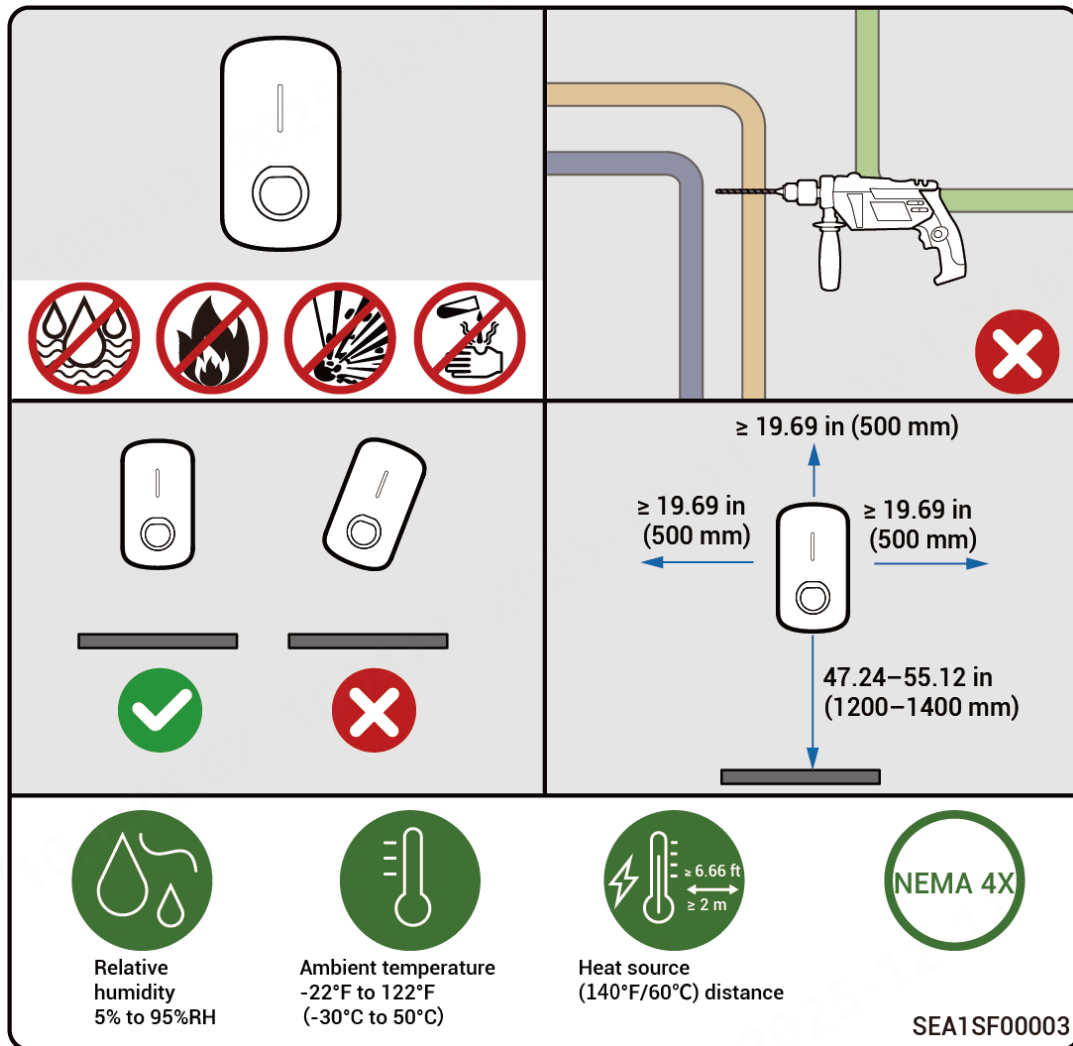
- Do not install the equipment on a flammable carrier.
- The installation carrier must meet load-bearing requirements. Solid brick-concrete structure, concrete walls are recommended.
- The surface of the installation carrier must be smooth and the installation area must meet the installation space requirements.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

Sigen EVAC 9.6 WI N6 (T1, TS) WH、Sigen EVAC 9.6 WI N14 (T1, TS) WH



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Sigen EVAC 11.5 WI (T1, TS) WH

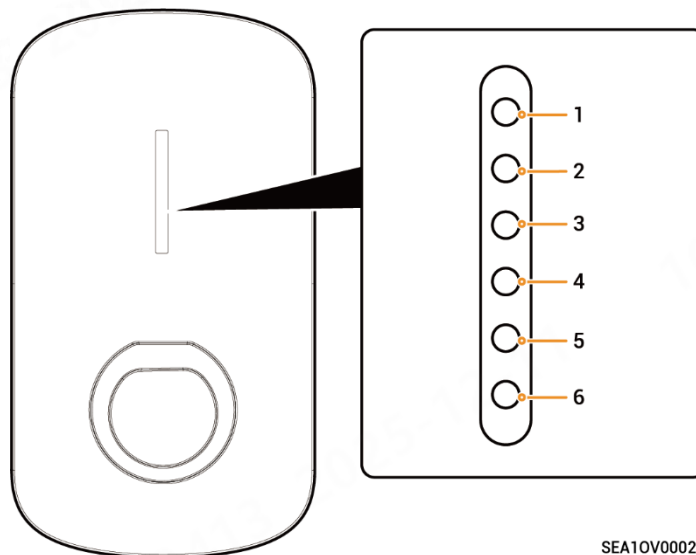


Chapter 4 Equipment Installation and Connection

It is recommended that equipment installation and connection must be operated by professional installers. For more information, refer to *Sigen EVAC Installation Guide*.

Chapter 5 How to Use

5.1 LED Indicator Status



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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	- 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	RFID Card read. Get ready to

Illuminated Indicator	Color	Status	Meaning
			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.

5.2 Use of Equipment

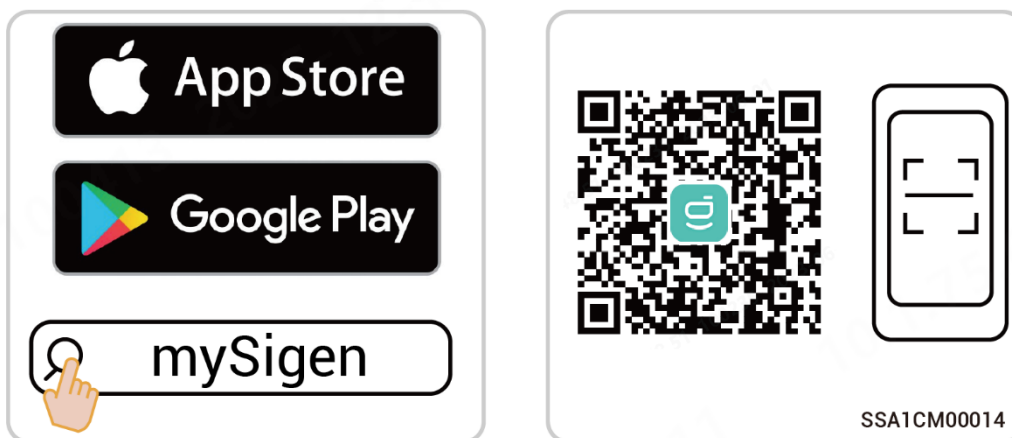
Sigen EVAC supports App authenticated charging, unauthenticated charging, and scheduled charging.

Caution

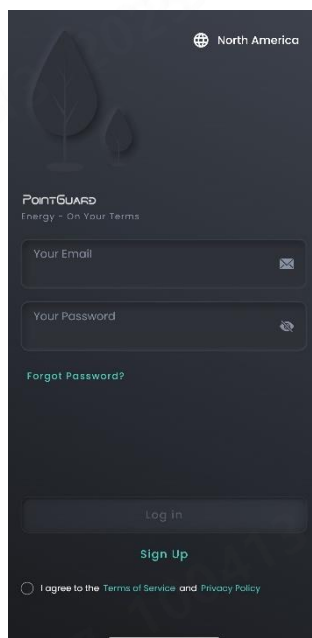
- **Please carefully read vehicle-related precautions and requirements before charging vehicles.**
- **Sigen EVAC must be used with 1.9.2 or a later version. This document takes version 2.1.1 as an example to introduce relevant operations. The actual screen display shall prevail.**

5.2.1 mySigen App Download and Login

1. Download the app.



2. Log in to the app.



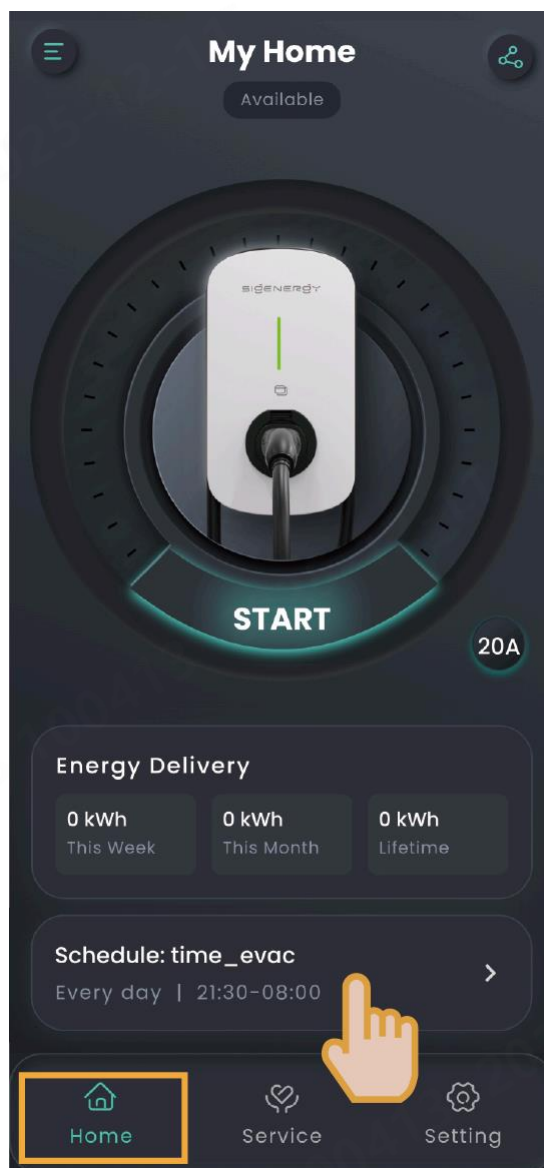
5.2.2 App authenticated charging (Recommended)

1. Install the charging connector in place.
2. Click "START" on the "Home" page.



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5.2.3 Scheduled Charging



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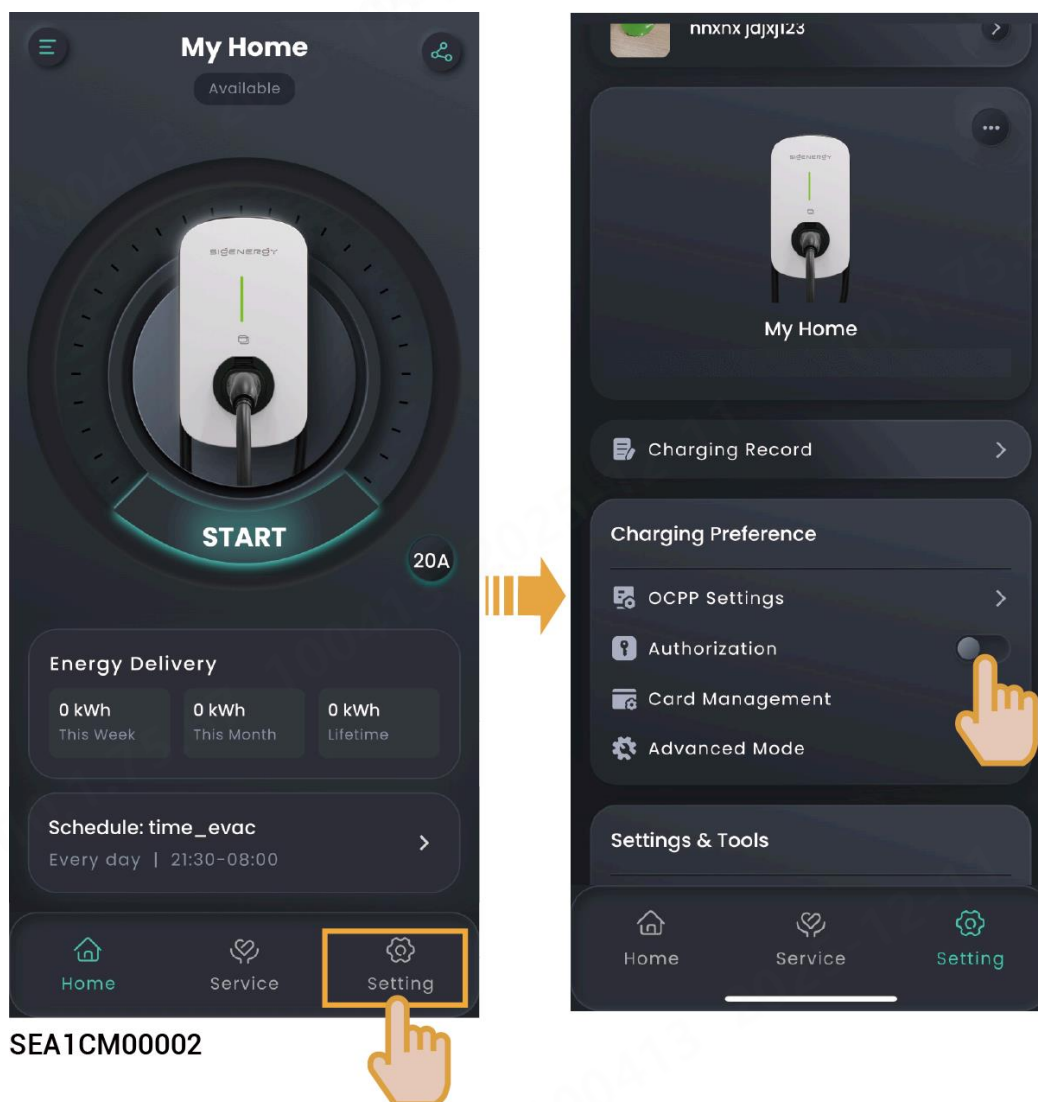
Tips

- 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 change the time range available for

charging.

5.2.4 Unauthenticated Charging Mode

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



SEA1CM00002

2. Install the charging connector in place.

Tips

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

5.2.5 Stop Charging

Charging completed

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

During charging

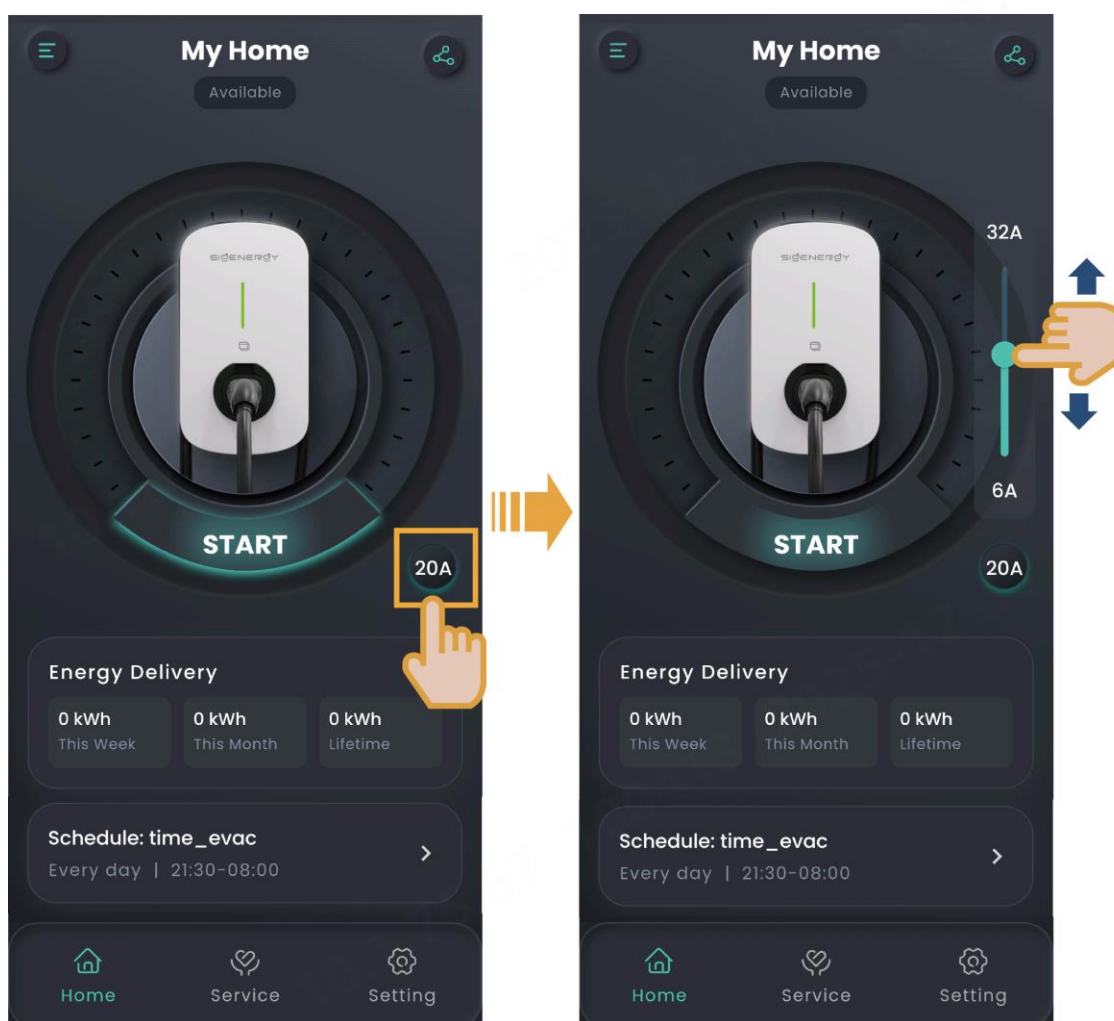
Click "STOP" on the "Home" page to stop charging.

5.3 Charging Current Adjustment

Tips

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

Manual adjustment



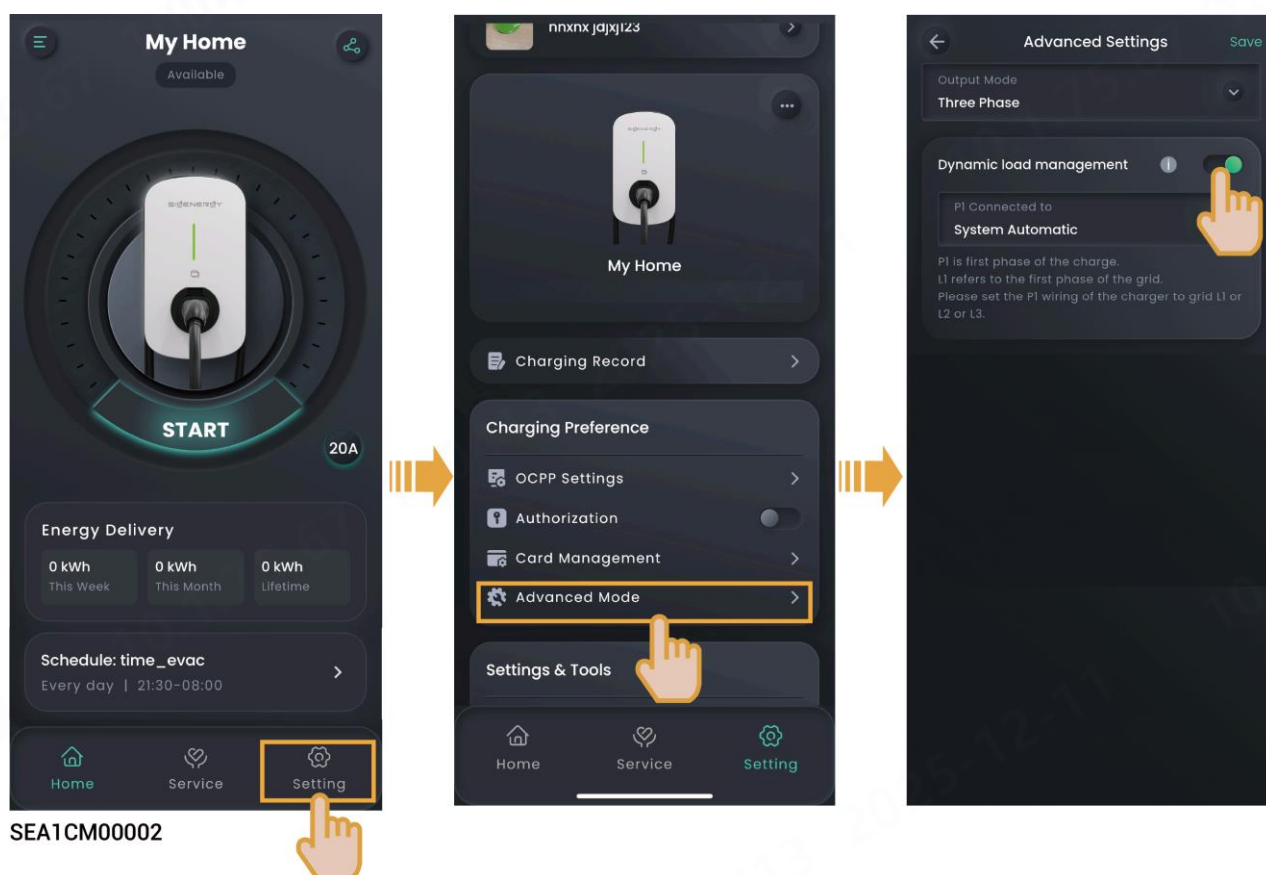
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DLM automatic adjustment

When Power Sensor is installed in the networking, Sigen EVAC will support dynamic load management (DLM). The Sigen EVAC quickly and intelligently adjusts the charging current (power) by comparing the power at the

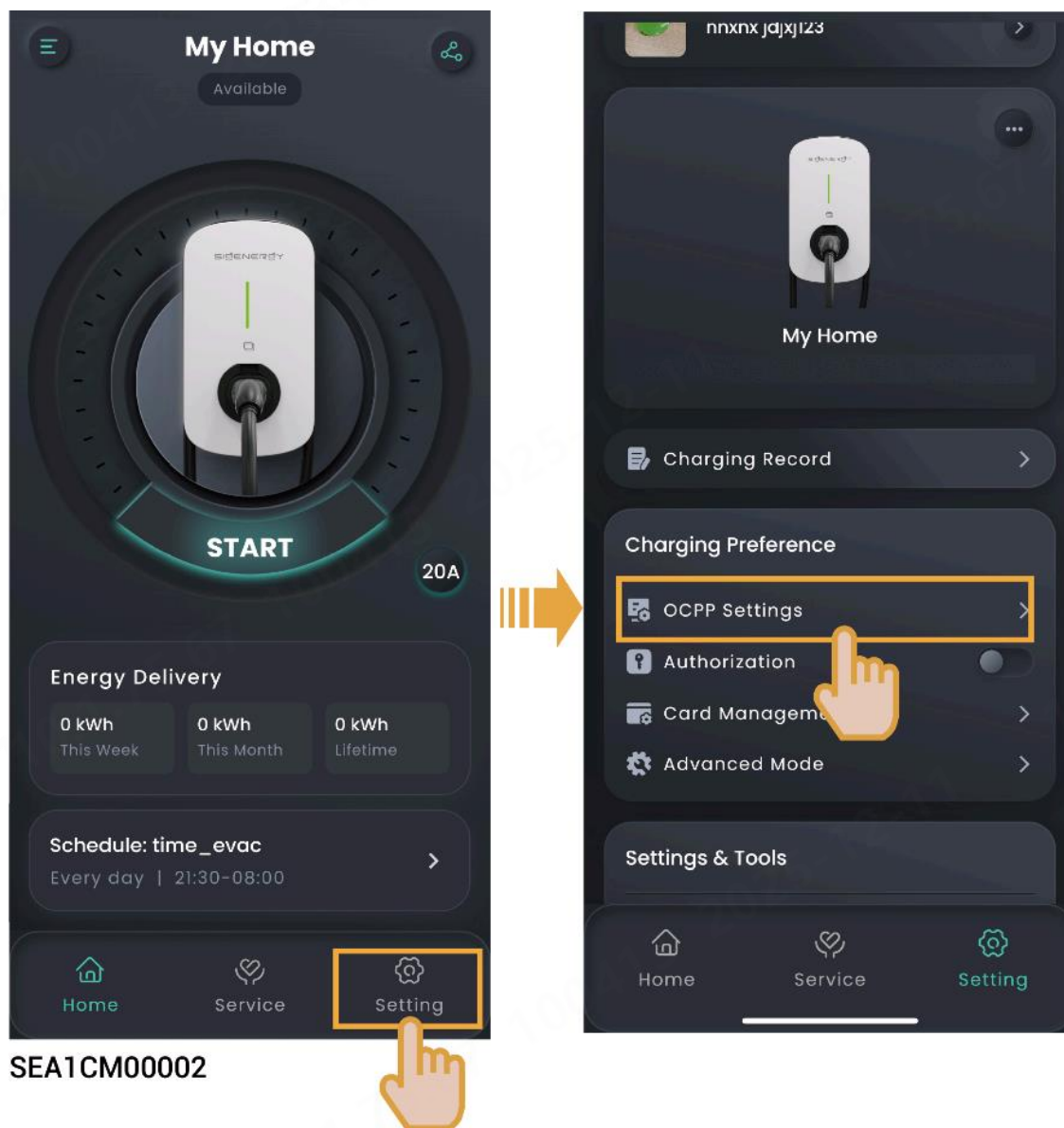
grid-connection point reported by the Power Sensor with the "Home air circuit breaker rated current" value set in the app to prevent the Household Circuit Breaker in the distribution panel from being disconnected.

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



5.4 OCPP Settings

If you want to manage the Sigen EVAC through a third-party platform, you can authorize it by setting up OCPP.



5.5 Other Settings of mySigenstor App

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

Chapter 6 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 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.

Chapter 7 Appendix

7.1 Technical Parameter

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

7.2 Certification Description

7.2.1 FCC statements

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment complies with FCC's and IC's RF radiation exposure limits set forth for an uncontrolled environment. The antenna(s) used for this transmitter must be installed and operated to provide a separation distance of at least 20 cm from all persons and must not be collocated or operating in conjunction with any other antenna or transmitter. Installers must ensure that 20cm separation distance will be maintained between the device and users.

7.2.2 ISED statements

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s).

Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- 1) L'appareil ne doit pas produire de brouillage;
- 2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This equipment complies with IC's RF radiation exposure limits set forth for an uncontrolled environment. The antenna(s) used for this transmitter must be installed and operated to provide a separation distance of at least 20 cm from all persons and must not be collocated or operating in conjunction with any other antenna or transmitter.

Installers must ensure that 20cm separation distance will be maintained between the device and users.

L'appareil est conforme aux limites d'exposition aux rayonnements RF spécifiées par IC pour les environnements non contrôlés. L'antenne utilisée pour cet émetteur doit être installée et exploitée de manière à assurer une distance d'isolement d'au moins 20 cm de toute personne et ne doit pas être juxtaposée ou fonctionner en synergie avec une autre antenne ou un autre émetteur. L'installateur doit s'assurer qu'un espacement de 20 cm est maintenu entre l'appareil et l'utilisateur.