

Sigen EV AC Charger 2

Installer Manual

Sigen EVAC 2 7K/11K/22K T2 Series
Sigen EVAC 2 7K/11K/22K T2SH Series

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Revision History

Version	Date	Description
01	2026.09.23	Initial release.

Preface

Overview

This document mainly covers the product introduction and device installation of the Sigen EVAC 2 7K/11K/22K T2 series and Sigen EVAC 2 7K/11K/22K T2SH series (hereafter referred to as Sigen EVAC 2).

Intended Audience

This document is intended for product users and professionals.

Icon Definition

The following icons may be used in the document to indicate safety precautions or key information. Before installation and operation, please be familiar with and master the icons and the corresponding definitions.

Icon	Definition
 Danger	Danger. Indicates an imminently hazardous situation which, if not avoided, will result in death or serious personal injury.
 Warning	Warning. Indicates a potentially hazardous situation which, if not avoided, will result in serious personal injury or property damage.
 Caution	Caution. Indicates a potentially hazardous situation which, if not avoided, will result in property damage.
Tips	Indicates important or key information and provides operation tips.

Chapter 1 Safety Precautions

Before operating the device, carefully read the safety precautions. Device damage resulting from failure to operate as required is not covered by the device warranty.

1.1 General Requirements

Before installation, operation, and maintenance of the device, familiarize yourself with this document.

The "Caution," "Warning," and "Danger" statements described in this manual are only supplementary to all safety notices.

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

- The installation environment does not comply with relevant international, national, or regional standards.
- Failure to comply with local laws and regulations during the transportation, installation, operation, and maintenance of the device.
- The installation area does not meet the requirements of the device.
- Cables, tools, and other materials used do not comply with relevant international, national, or regional standards.
- Damage caused by storage conditions that do not meet the requirements of the device.
- Failure to operate according to the instructions and precautions in the manual.
- Failure to follow the operational requirements indicated on warning labels on the device or tools.
- Negligence, improper operation, or deliberate damage.
- Damage caused by changes in the intended scenarios for the device on the customer or third-party company's side.
- The device is damaged because the customer or a third-party company fails to use the accessories supplied with the packing box or purchase and install accessories of the same specification.
- Device damage caused by unauthorized disassembly or replacement of the device or modification of software code, or other improper operations.
- Device damage caused by force majeure (such as war, earthquake, fire, storms, lightning, floods, and debris flow).
- Damage caused by natural environmental conditions or external power parameters failing to meet the standard requirements for normal operation. For example, the actual operating temperature of the device is too high or too low.
- The device is stolen.
- The device is damaged after the warranty period expires.

1.2 Personnel Requirements

Personnel responsible for installation and maintenance of the device must be properly trained and obtain relevant certificates, be familiar with local laws, regulations, and relevant standards, understand the composition and working principles of the system, be aware of all safety precautions, master the established operation procedures, and hold the qualifications required by local authorities.

1.3 Handling and Transportation Requirements

- Wear personal protective equipment such as protective gloves and safety shoes while handling the device.
- Select an appropriate handling method according to the device weight.
- When using a forklift, position the forks so that the center of gravity of the device is aligned and secure the device as needed. Designate a person to keep an eye on the handling. Do not stand under the forks.
- Please place the device according to the stacking requirements indicated on the packaging, and secure it tightly when stacking.
- Transport the device with proper protective measures to avoid exposure to rain or water.

1.4 Storage Requirements

- The storage location must comply with local laws and regulations.
- Do not store the device without packaging.
- Do not expose the device to direct sunlight, humidity, condensation, dirt, rain, or a flammable, explosive, or corrosive environment.
- Take measures to prevent pests and rodents in the storage area.
- Store the device according to the storage requirements indicated on the packaging.
- Regularly record the temperature, humidity, and other conditions of the storage environment during the storage period.
 - Storage temperature: -40°C to 70°C (recommended: 20°C to 30°C).
 - Relative humidity: 5% RH to 95% RH; recommended: 40% RH to 50% RH.
- Follow the First-in First-out (FIFO) principle for shipment.

1.5 Operation Requirements

1.5.1 General Requirements

Danger

High Voltage and Hazards:

- Do not perform operations on the device with power on (including but not limited to installation, wiring, and replacement).
- Do not extend sharp objects or fingers into the device.
- Do not operate the device in bad weather conditions, including but not limited to lightning, rain, snow, or typhoon.
- Do not clean or soak the device with water, alcohol, oil, or other liquids to avoid leakage current and electrical shock.
- Do not impact, drag, or step on the device.
- Before operating the device, check whether the device is damaged. Do not perform any operations in case of any abnormalities such as appearance deformation or odor.
- Wear personal protective equipment such as insulating gloves, insulating shoes, and safety hats while operating the device. Do not wear conductive accessories such as metal bracelets, rings, or necklaces.
- Use insulated tools when installing or wiring.
- Device that must be grounded is permanently connected to the PGND. Connect the PGND in the first step before connecting cables, and when replacing a device, remove the PGND in the last step.
- Measure the voltage of the contact before touching a terminal to avoid the risk of electric shock.
- Prevent foreign objects from falling into the device while operating the device.
- Ensure that the device cables are correctly connected before turning on the upstream MCB.
- Do not contact terminals on the device directly or by using other conductors after turning on the upstream MCB.
- Stop the engine of your vehicle before connecting to the device.

Caution

- Do not connect cables or adapters that are not required for installing this device.
- Do not use the device for any purposes other than vehicle charging.
- Do not use a private generator as the power source for the device.
- Do not forcibly bend components of the device.
- The I^2t value of the EV charging connector (Case C) for the Mode 3 charger should not exceed 80,000 A²s in the case of a short circuit.
- The I^2t value of the EV socket outlet (Case B) for the Mode 3 charger should not exceed 75,000 A²s in the case of a short circuit.

1.5.2 Device Installation



Warning

Get well prepared for the bearing load when handling the device to prevent it from falling and causing injury.

Drilling Safety

- Do not drill holes on the device.
- Wear safety goggles and protective gloves when drilling holes.
- Do not place the device near drilling positions to prevent debris from falling into the device.
- Clean up any debris promptly after drilling.

1.5.3 Cable Connections

Danger

- Before connecting cables, ensure that the device is not damaged.
- Before connecting or removing cables, ensure that the upstream and downstream switches of the device and the switches on the device are turned off.

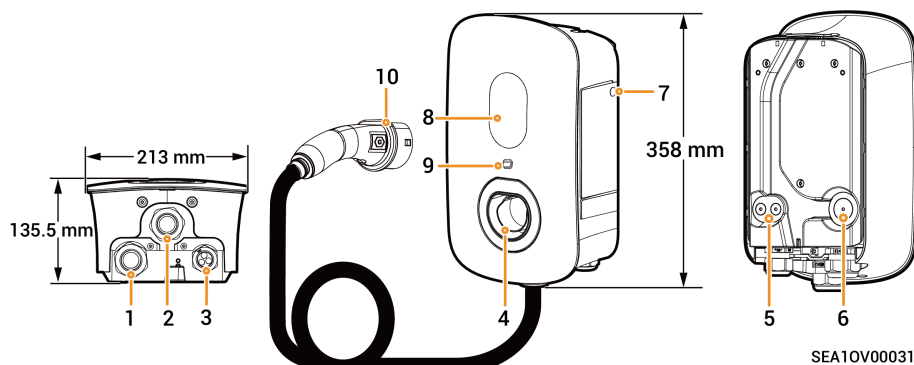
- Do not intertwine cables or route cables across each other. It is recommended that cables be bundled by category.
- Do not use cables with damaged insulation. No sharp edges or burrs are allowed in cable holes.
- Keep cables away from the heat source to prevent cable aging at high-temperatures.
- The lower the ambient temperature is, the more brittle the cable plastic sheath becomes. To prevent sheath cracking during installation, install cables at temperatures above 0°C and handle them with caution. If cables have been stored in an environment below 0°C for an extended period of time, move cables to an environment above 0°C for at least 24 hours before using them.
- Always use a cable with sufficient length instead of using an extension cable.

1.5.4 Device Maintenance and Replacement

Cut off the power supply to the device before maintenance or replacement. Power up and put the device back into operation only after trouble is eliminated or replacement is complete.

Chapter 2 Product Introduction

Sigen EVAC 2 7K/11K/22K T2 Series

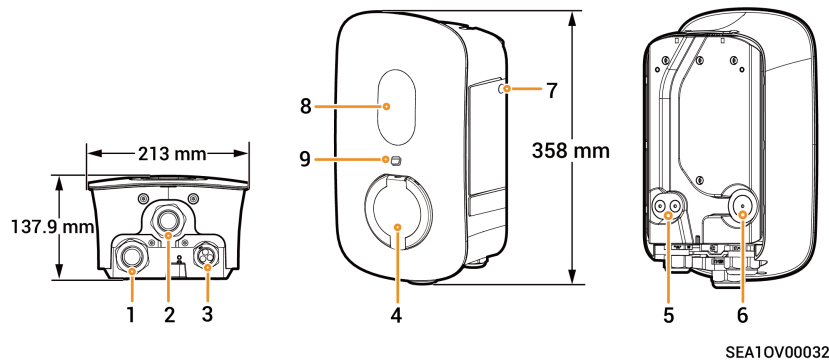


Caution

- When connecting cables, the bottom routing holes (Nos. 1 and 3) are recommended.
- If rear routing (Nos. 5 and 6) is used when connecting cables, install the device in a sheltered location to prevent water ingress caused by prolonged water accumulation on the top.

No.	Description
1	Bottom routing hole for AC input cable
2	Bottom routing hole for charging cable
3	Bottom routing hole for communication cable
4	Type 2 charging connector holder
5	Rear routing hole for communication cable
6	Rear routing hole for AC cable
7	Main button
8	Display screen
9	Sigen RFID card reading area
10	Charging connector

Sigen EVAC 2 7K/11K/22K T2SH Series



Caution

- When connecting cables, the bottom routing holes (Nos. 1 and 3) are recommended.
- If rear routing (Nos. 5 and 6) is used when connecting cables, install the device in a sheltered location to prevent water ingress caused by prolonged water accumulation on the top.

No.	Description
1	Bottom routing hole for AC input cable
2	Bottom routing hole for charging cable
3	Bottom routing hole for communication cable
4	Type 2 charger socket with protective door
5	Rear routing hole for communication cable
6	Rear routing hole for AC cable
7	Main button
8	Display screen
9	Sigen RFID card reading area

Chapter 3 Checks Before Installation

3.1 Appearance and Included Components

1. Check that the outer packaging is intact without damage (including labels), and verify the model number. If any abnormality is found, do not unpack and contact your installer or sales representative promptly.

Tips

- To ensure the device remains as new, it is recommended not to remove the outer packaging too early. It is recommended to unpack within 24 hours before installation.
- During unpacking, handle with care to avoid damaging the device. Damage to devices caused by human actions (such as stepping on or dragging the device) is not covered by our company's warranty.

2. After unpacking, immediately inspect the device for any visible damage, scratches, deformation, correct model, and intact and clear labels. If any abnormality is found, contact your installer or sales representative without delay.
3. Check whether the components are entirely supplied against the packing list and whether the appearance is in good condition. For any problem, contact your installer or sales representative.

Tips

Components and accessories supplied with the packing box are personal assets of the owner and must not be taken away from the installation site.

3.2 Personal Protective Equipment



Safety hat



Goggles



Dust mask



Protective
gloves



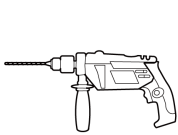
Insulating
gloves



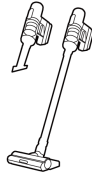
Insulating
shoes

3.3 Self-supplied Tools

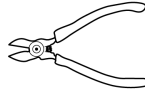
Installation Tools



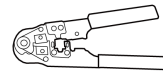
Power drill



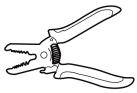
Vacuum cleaner



Wire cutter


Network cable
pliers

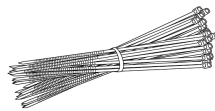

Crimping pliers



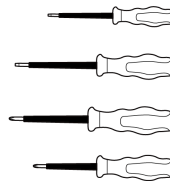
Wire stripper

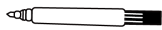


Scissors

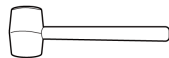


Cable ties

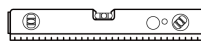

Insulated
screwdriver set

Digital open-end
torque wrench


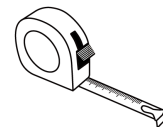
Marker



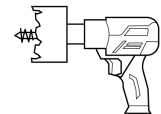
Rubber mallet



Level



Tape measure



Hole saw drill

3.4 Self-supplied Upstream AC Switch

Users should prepare a C-curve MCB compliant with IEC/EN 60898. The recommended specifications are as follows. Users can omit this requirement if they have installed compliant AC switches.

Model	Number of MCB poles	Rated Current, MCB
Sigen EVAC 2 7K T2 Series Sigen EVAC 2 7K T2SH Series	1P+N/2P	40 A
Sigen EVAC 2 11K T2 Series Sigen EVAC 2 11K T2SH Series	3P+N	20 A
Sigen EVAC 2 22K T2 Series Sigen EVAC 2 22K T2SH Series	3P+N	40 A

Tips

If local regulations require the installation of an RCD, install a compliant RCD in accordance with those regulations.

3.5 Self-supplied Cables

The grid power options include TT, TN-S, TN-C-S, and IT.

Users should prepare cables according to the local grid power mode. This device does not support single-core rigid wire.

AC Input Cable

Grid Power Mode	Recommended Specification		
	(Sigen EVAC 2 7K T2/T2SH Series)	(Sigen EVAC 2 11K T2/T2SH Series)	(Sigen EVAC 2 22K T2/T2SH Series)
Three-phase five-wire system (L1/L2/L3/N/PE)	-	Five-core/four-core copper core cables for outdoor use	Five-core/four-core copper core cables for outdoor use
Three-phase four-wire system (L1/L2/L3/PE)		<ul style="list-style-type: none"> ● Cable temperature resistance: $\geq 90^{\circ}\text{C}$ ● Outer diameter: 13 mm to 20 mm ● Current: 16 A ● Cross-sectional area of conductor: 2.5 mm² to 6 mm² 	<ul style="list-style-type: none"> ● Cable temperature resistance: $\geq 90^{\circ}\text{C}$ ● Outer diameter: 13 mm to 20 mm ● Current: 32 A ● Cross-sectional area of conductor: 6 mm²
Two-phase (L1/L2/PE)	Three-core copper core cables for outdoor use	-	-
Single-phase (L/N/PE)	<ul style="list-style-type: none"> ● Cable temperature resistance: $\geq 90^{\circ}\text{C}$ ● Outer diameter: 13 mm to 20 mm ● Current: 32 A ● Cross-sectional area of conductor: 6 mm² 		

Signal Cable

Cables or two-core shielded twisted pair for outdoor use

- Conductor cross-sectional area: 0.2 mm² to 1.5 mm²
- Outer diameter: 5 mm to 7 mm

RJ45 Network Cable

Shielded twisted pair for outdoor use

- Conductor cross-sectional area: 0.129 mm² to 0.205 mm²
- Outer diameter: 5 mm to 7 mm

Chapter 4 Location Requirements

Tips

- Before installing the device, be sure to read the following installation requirements carefully. Our company shall not be held liable for any device malfunction, damage, or personal injury occurring during operation due to failure to follow operational requirements.
- 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

- Do not install the device in a smoky, flammable, or explosive environment.
- Avoid exposing the device to direct sunlight, rain, standing water, snow, or dust. Install the device 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 device in an environment with strong electromagnetic interference.
- The temperature and humidity of the installation environment should meet device requirements.
- The device shall be installed in an area at least 500 m away from corrosion sources such as high salt or high acidity (corrosion sources include but are not limited to seaside, thermal power plant, chemical plant, smelter, coal plant, rubber plant, and electroplating plant).
- 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.

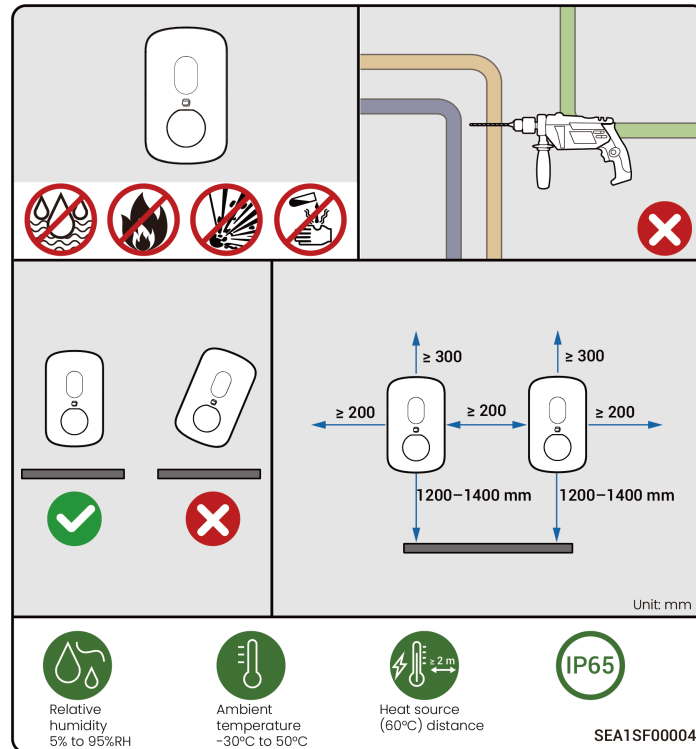
Installation Location

- Do not tilt the device or place it upside down. Ensure that the device is horizontally installed.
- Do not install the device in areas easily accessible to children.
- Do not install the device in mobile scenarios such as recreational vehicles, cruise ships, and trains.
- It is recommended to install the device in a location that facilitates operation, maintenance, and viewing of the display screen.
- When installed in a garage, do not place the device where vehicles pass to avoid collisions.

Installation Base

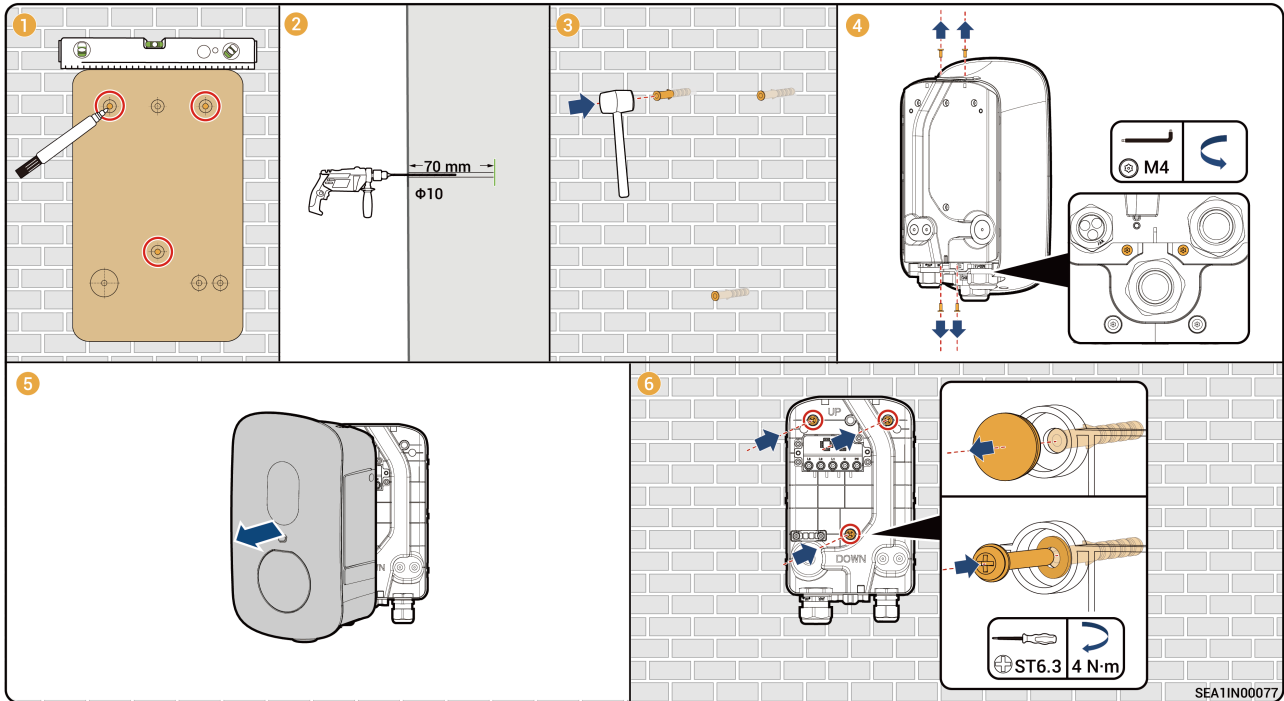
- Do not install the device on a flammable base.
- The installation base should meet the load-bearing requirement. Solid brick-concrete structures and concrete walls are recommended.

- The installation base should be flat, and the installation area should meet the installation space requirements.
- No plumbing or electricity routing should be inside the installation base to avoid potential drilling hazards during device installation.

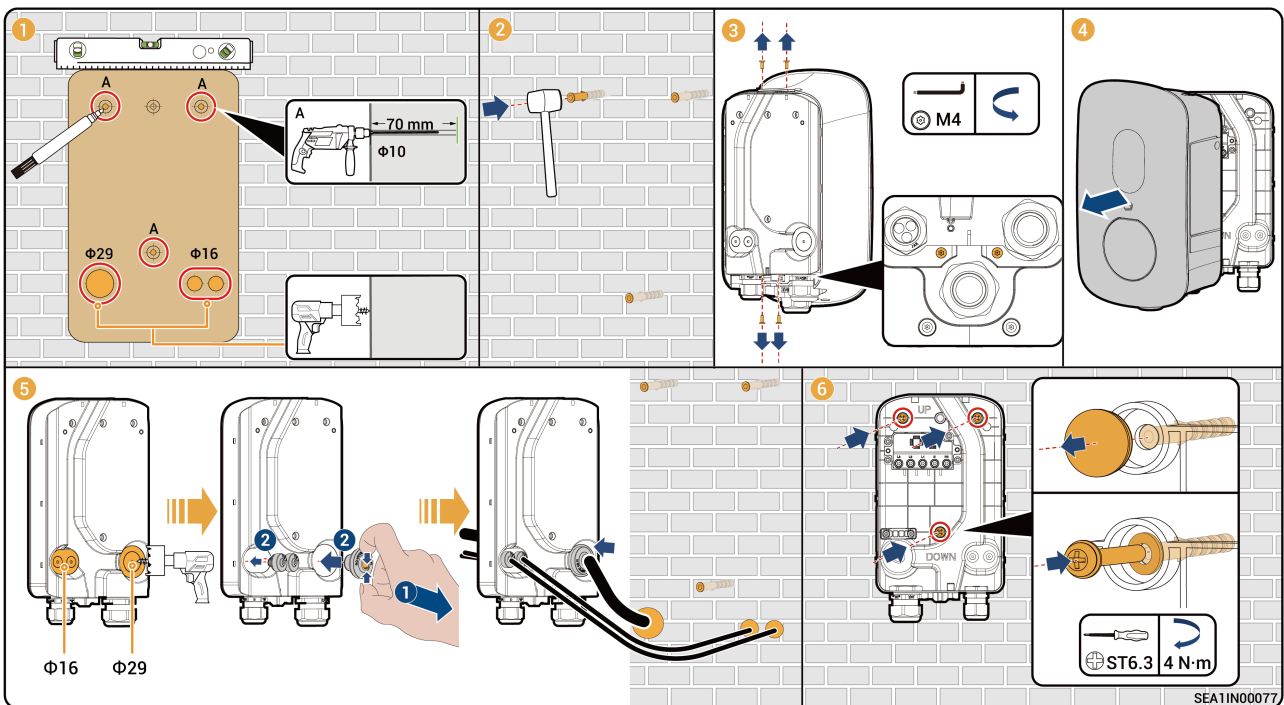


Chapter 5 Device Installation

Bottom Routing or Top Routing



Rear Routing

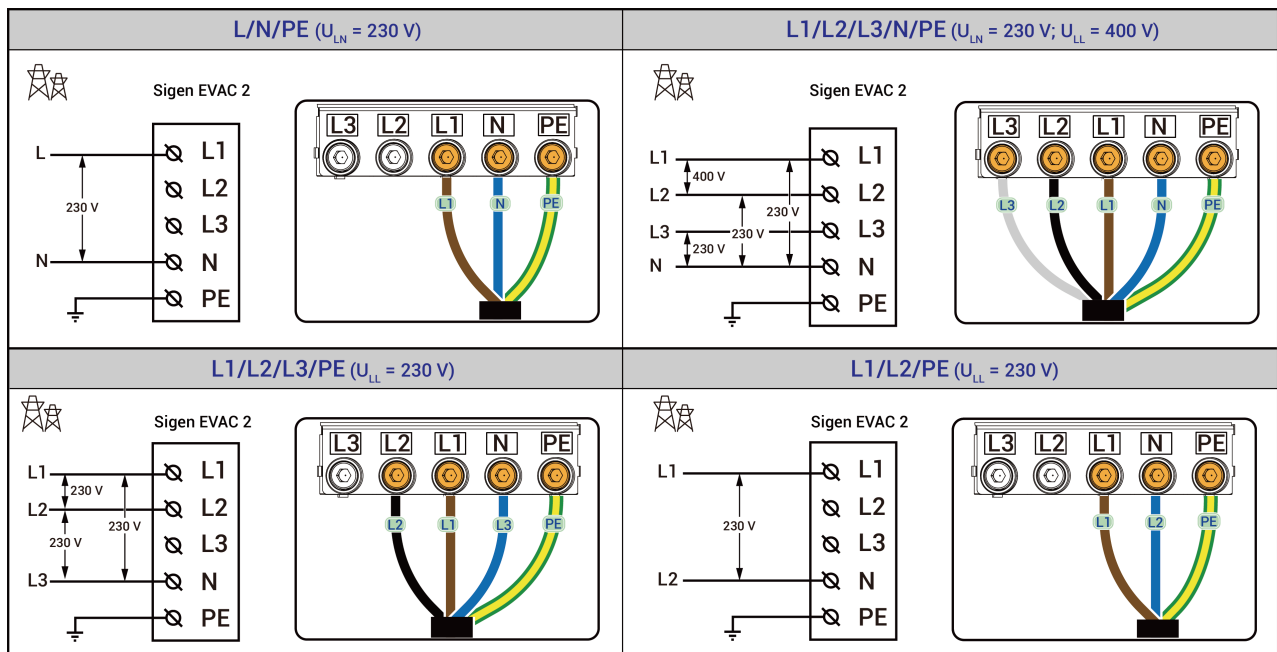


Chapter 6 Cable Connection and Component Installation

6.1 Grid Power Mode Description

Danger

Sigen EVAC 2 supports the grid power modes shown in the diagrams. Strictly follow the diagrams when connecting the AC cables. Incorrect connection will prevent the device from operating. Incorrect connection of the PE conductor may create a safety hazard.



SEAT1IN00084

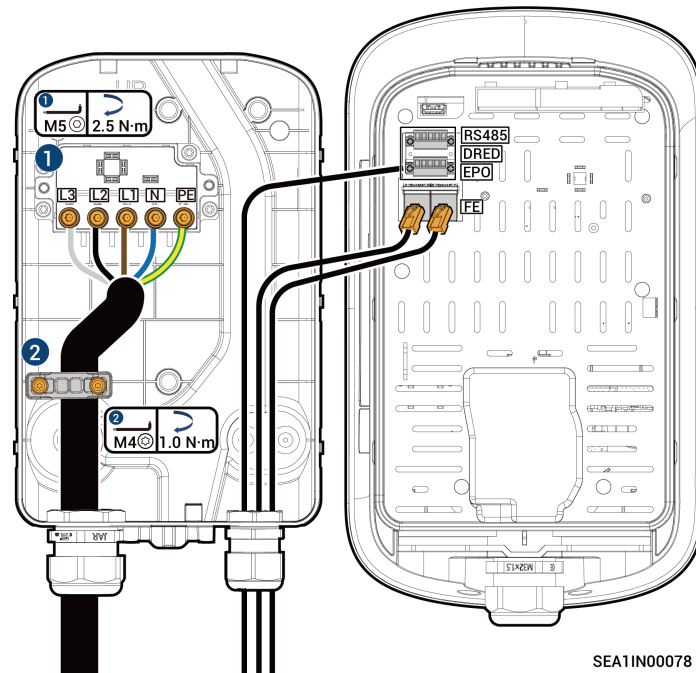
6.2 Cable Routing

Tips

This section describes the routing method using the three-phase five-wire system.

(Recommended) Bottom Routing

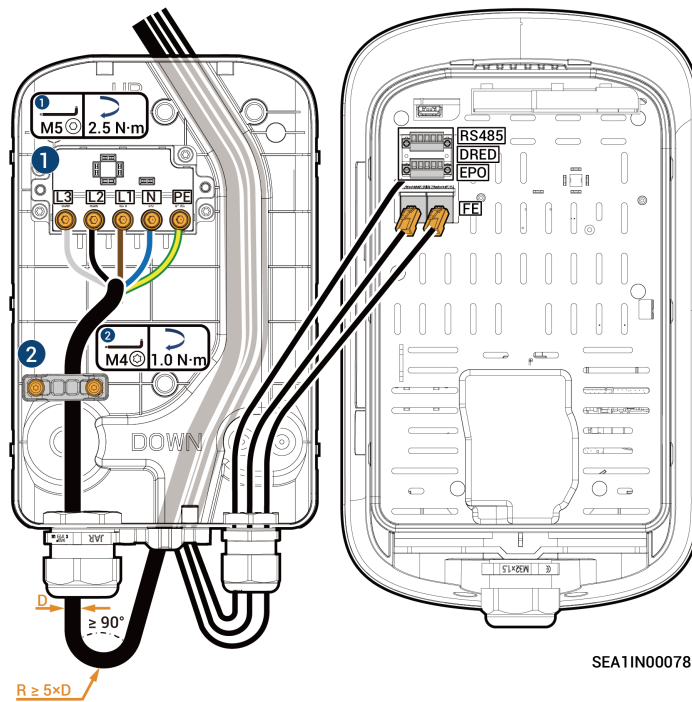
For bottom routing, the maximum cross-sectional area of the AC cable core conductor is 16 mm².



Top Routing

Tips

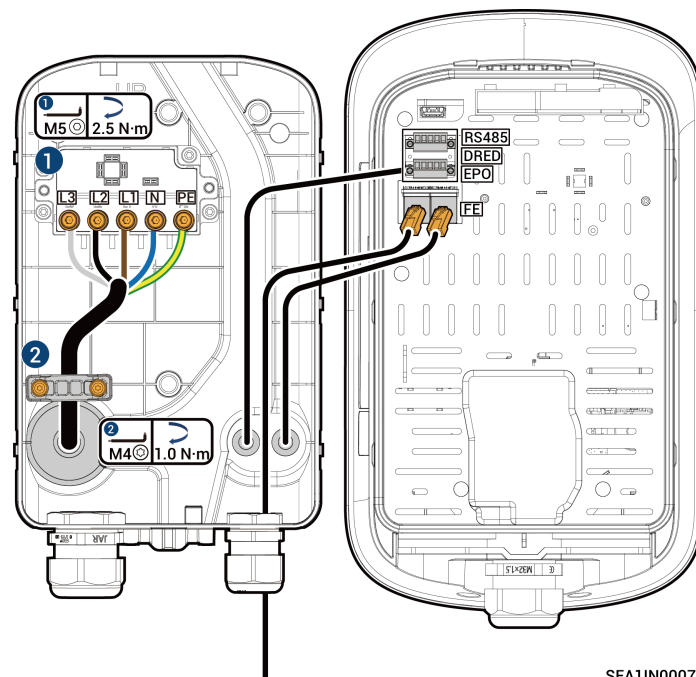
- When top routing is used, the top of the device should be adequately protected to prevent water ingress caused by prolonged water accumulation.
- Only stranded flexible cables are supported, and the maximum cross-sectional area of the AC cable core conductor is 6 mm².



Rear Routing

Tips

- When rear routing is used, the top of the device should be adequately protected to prevent water ingress caused by prolonged water accumulation on the back.
- To ensure sealing, it is recommended that one communication cable passes through one rear routing hole. If more than two communication cables are connected, the extra cables can be routed from the bottom.
- Only stranded flexible cables are supported, and the maximum cross-sectional area of the AC cable core conductor is 6 mm².



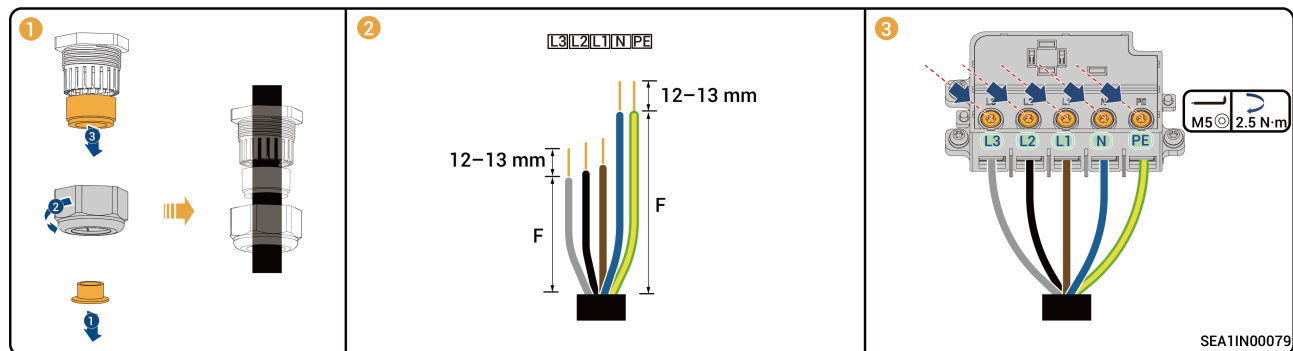
SEA1IN00078

6.3 AC Input Cable Connection

This section uses a three-phase five-wire system as an example to describe the specific wiring steps. Rear routing does not require the use of water-proof connectors.

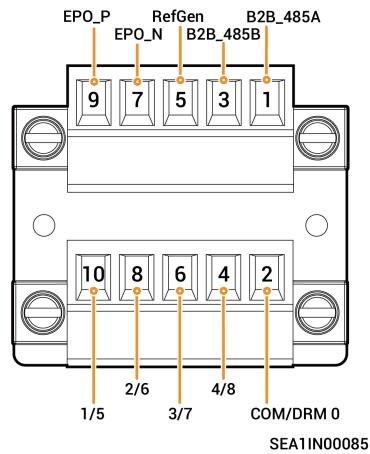
The stripping length (F) of cable insulation is determined by the Sigen EVAC 2 port to which cables are connected.

Sigen EVAC 2	L3	L2	L1	N	PE
F (mm)	120	120	130	140	150



6.4 Signal Cable Connection

6.4.1 Terminal Description

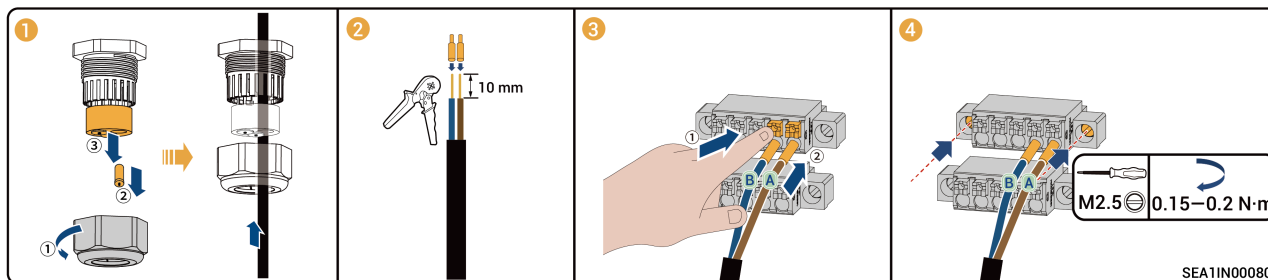


Pin No.	Pin Definition	Description	Remarks
1	B2B_485A	RS485 signal cable, with one end connected to Sigen EVAC 2 and the other end connected to the Power Sensor or another RS485 device	Used to connect a meter or another device that supports RS485 communication
3	B2B_485B		
2	COM/DRM 0	For the connection method, please refer to DRED/FNN Control Box Connection	-
4	4/8		-
5	RefGen		-
6	3/7		-
8	2/6		-
10	1/5		-
7	EPO_N	External emergency stop button	-
9	EPO_P		-

Tips

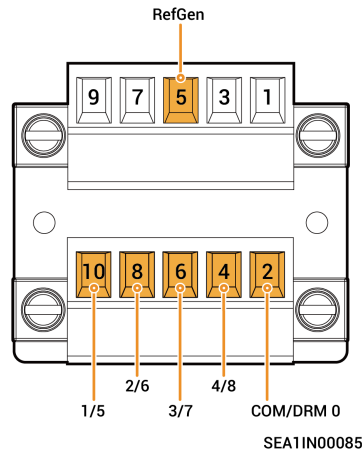
For appearance and connection details of the Power Sensor, refer to the User Manual supplied with the product.

6.4.2 RS485 Signal Cable Connection



6.4.3 DRED/FNN Control Box Connection

6.4.3.1 Australia DRED Connection



Pin No.	Pin Definition	DRED Signal Pin Mapping
2	COM/DRM 0	COM Load/0
4	4/8	DRM 4/8
5	RefGen	Ref Gen/0
6	3/7	DRM 3/7
8	2/6	DRM 2/6
10	1/5	DRM 1/5

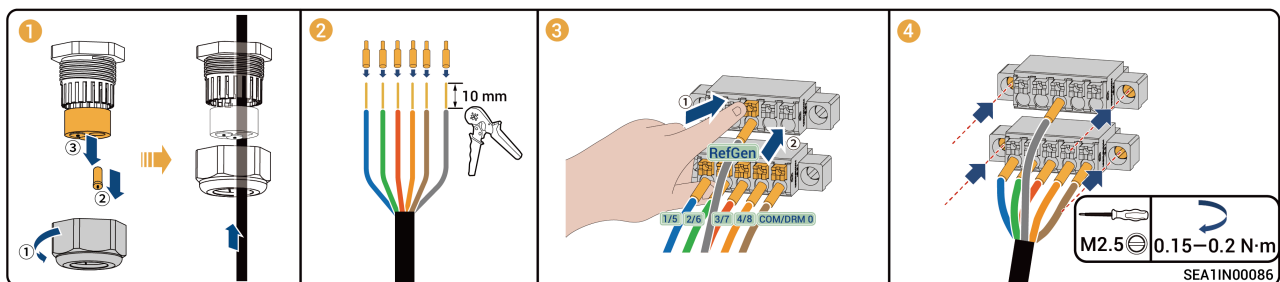
The DRM modes supported by Sigen EVAC 2 are as follows:

DRM Mode	Description	Implementation
DRM 0	Turn off the device	Short-circuit terminal pin RefGen to COM/DRM 0
DRM 1	No power consumption	Short-circuit terminal pin 1/5 to COM/DRM 0
DRM 2	Consumed power not exceeding 50% of rated power	Short-circuit terminal pin 2/6 to COM/DRM 0
DRM 3	Consumed power does not exceed 75% of the rated power, and, if possible, reactive power is provided	Short-circuit terminal pin 3/7 to COM/DRM 0
DRM 4	Increase power consumption (subject to constraints imposed by other active DRM conditions)	Short-circuit terminal pin 4/8 to COM/DRM 0
DRM 5	No power generation	Short-circuit terminal pin 1/5 to RefGen

DRM Mode	Description	Implementation
DRM 6	Generated power not exceeding 50% of rated power	Short-circuit terminal pin 2/6 to RefGen
DRM 7	Generated power not exceeding 75% of the rated power, and, if possible, absorb reactive power	Short-circuit terminal pin 3/7 to RefGen
DRM 8	Increase power generation (subject to constraints imposed by other active DRM conditions)	Short-circuit terminal pin 4/8 to RefGen

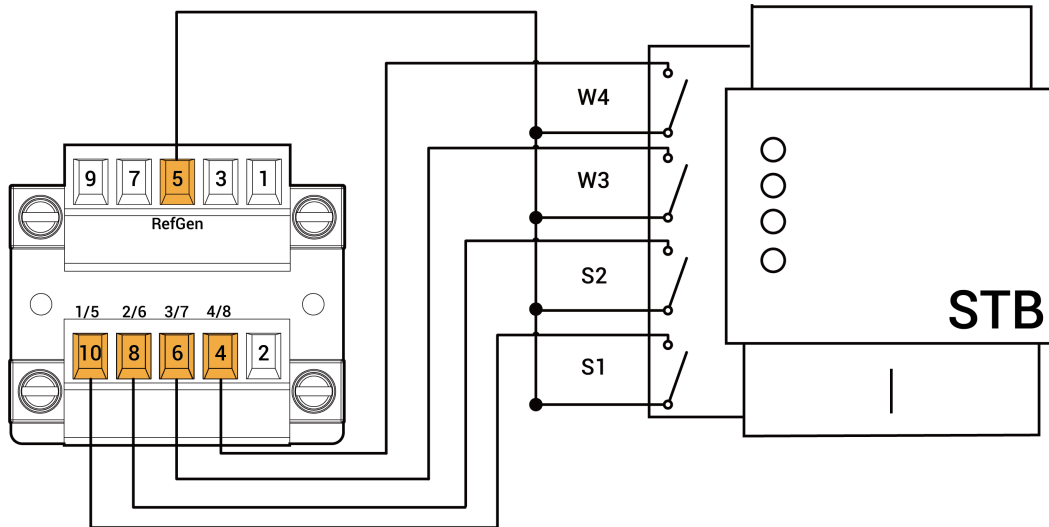
Tips

- DRM 5 / DRM 6 / DRM 7 / DRM 8 require the user's electric vehicle to support these functions and have V2G enabled.
- DRM 0 is mandatory; all other modes are optional.



6.4.3.2 Germany FNN Control Box Connection

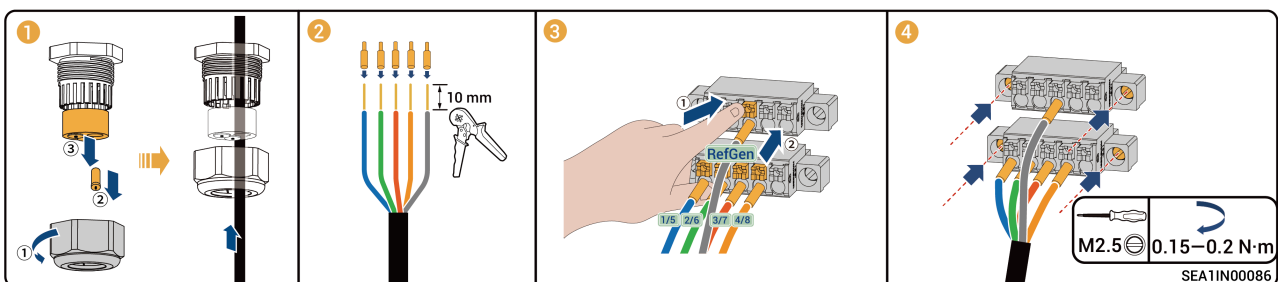
Sigen EVAC 2 can be connected to the relay ports of the FNN control box.



- If the vehicle connected to Sigen EVAC 2 does not support V2G or the user has not enabled V2G, it can be connected to the W4 relay of the STB controller. When §14a EnWG is enabled and the W4 relay is turned off, Sigen EVAC 2 can charge at full power without restriction. When the W4 relay is turned on, the maximum charging power of Sigen EVAC 2 is limited to 4.2 kW.
- If the vehicle connected to Sigen EVAC 2 supports V2G and the user has enabled V2G, it can be connected to the S1, S2, and W3 relays of the STB controller.

The states of the three relays represent the following generated power:

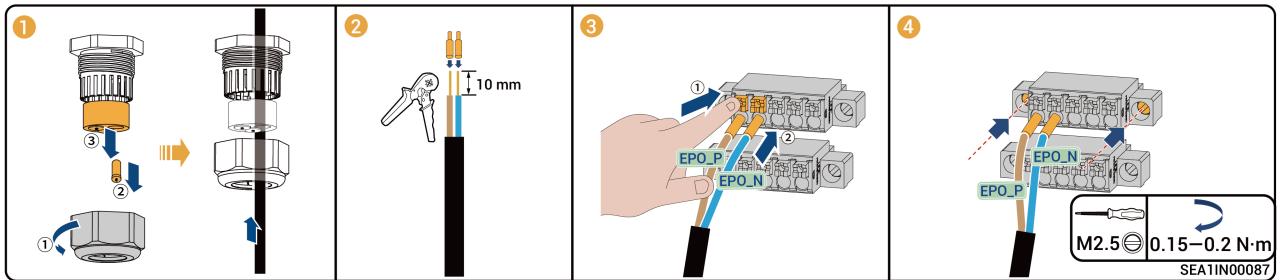
Relay S1	Relay S2	Relay W3	Grid-connected power
Turned off (0)	Turned off (0)	Turned off (0)	Generate at 100% of full power
Turned on (1)	Turned off (0)	Turned off (0)	Generate at 60% of full power
Turned off (0)	Turned on (1)	Turned off (0)	Generate at 30% of full power
Turned off (0)	Turned off (0)	Turned on (1)	Generate at 0% of full power



6.4.4 (Optional) Emergency Power Off (EPO) Button Connection

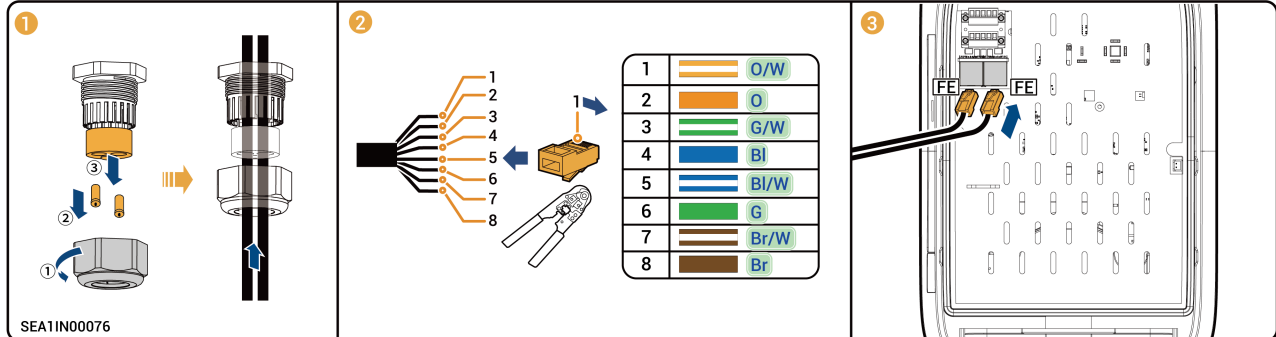
Tips

After creating a new system for the device, use the mySigen App to set the EPO protection parameters. For detailed operating steps, please refer to the [DI Customization](#) section in the mySigen App Installer Manual.



6.5 Network Cable Connection

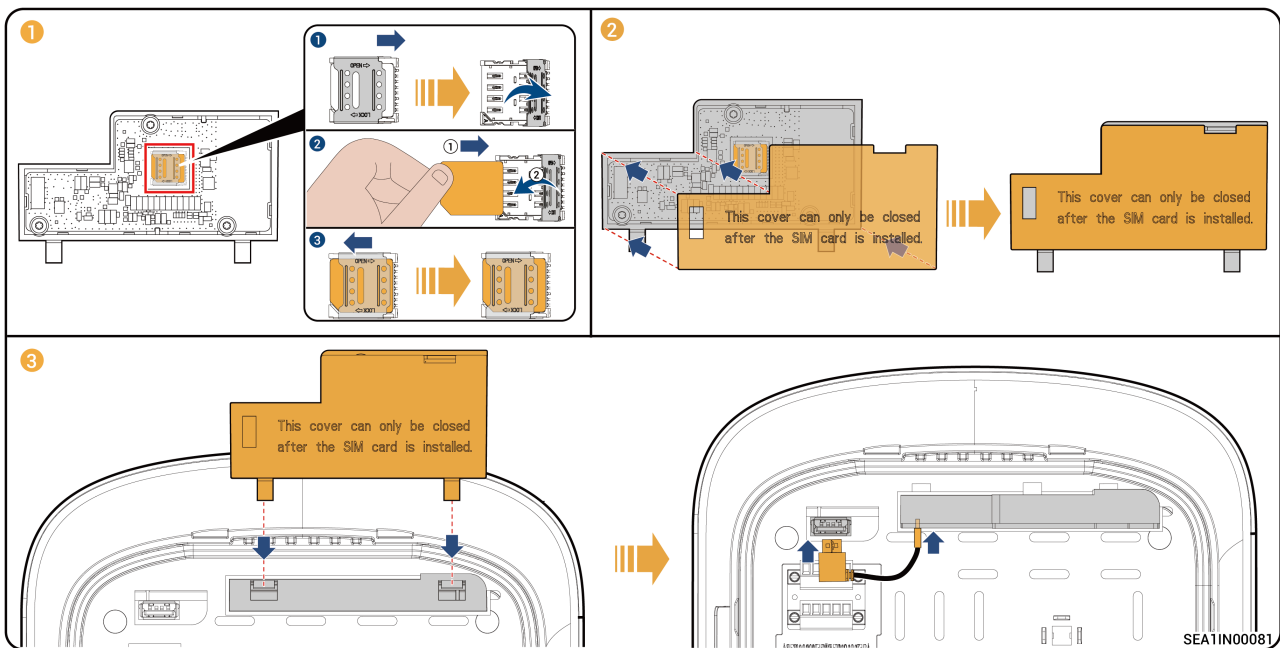
FE signal cable: Connect one end to Sigen EVAC 2 and the other end to the router or another Sigen device.



6.6 (Optional) Sigen CommMod Installation

Tips

- When using the optional Sigen CommMod for communication, you must install a SIM card before closing the upper cover.
- SIM cards are supplied by users and standard SIM cards are recommended (size: 25 mm × 15 mm, capacity ≥ 64 KB, traffic ≥ 128 MB/month).

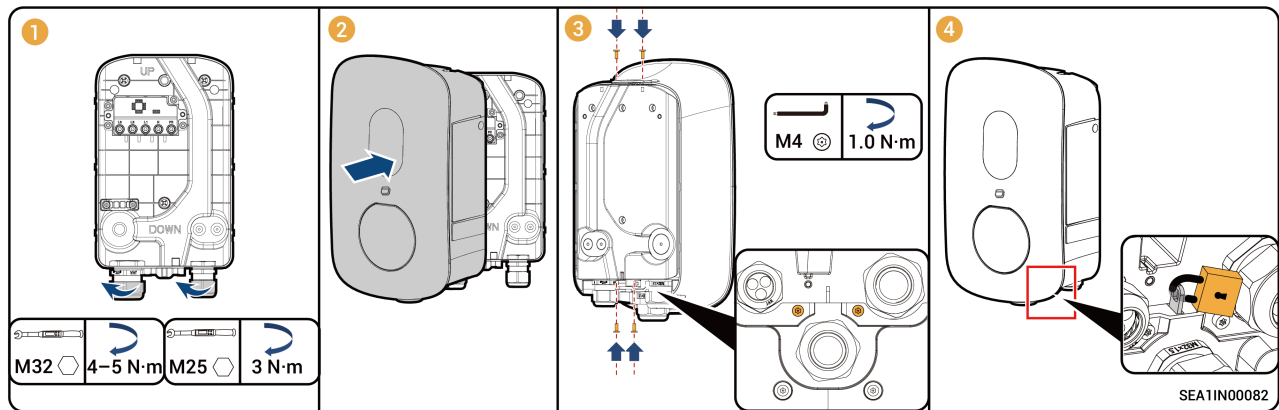


6.7 Installation Panel

1. Inspect according to the items in the table below.

No.	Check Item
1	The device is securely installed.
2	AC cables and signal cables are properly connected without omission.
3	Lock screws or terminal blocks are installed in place without any looseness.
4	Cutouts of cable ties are free of burr or sharp edges.
5	Unused ports are protected with water-proof covers or water-proof plugs.
6	No construction residue inside and outside the device.

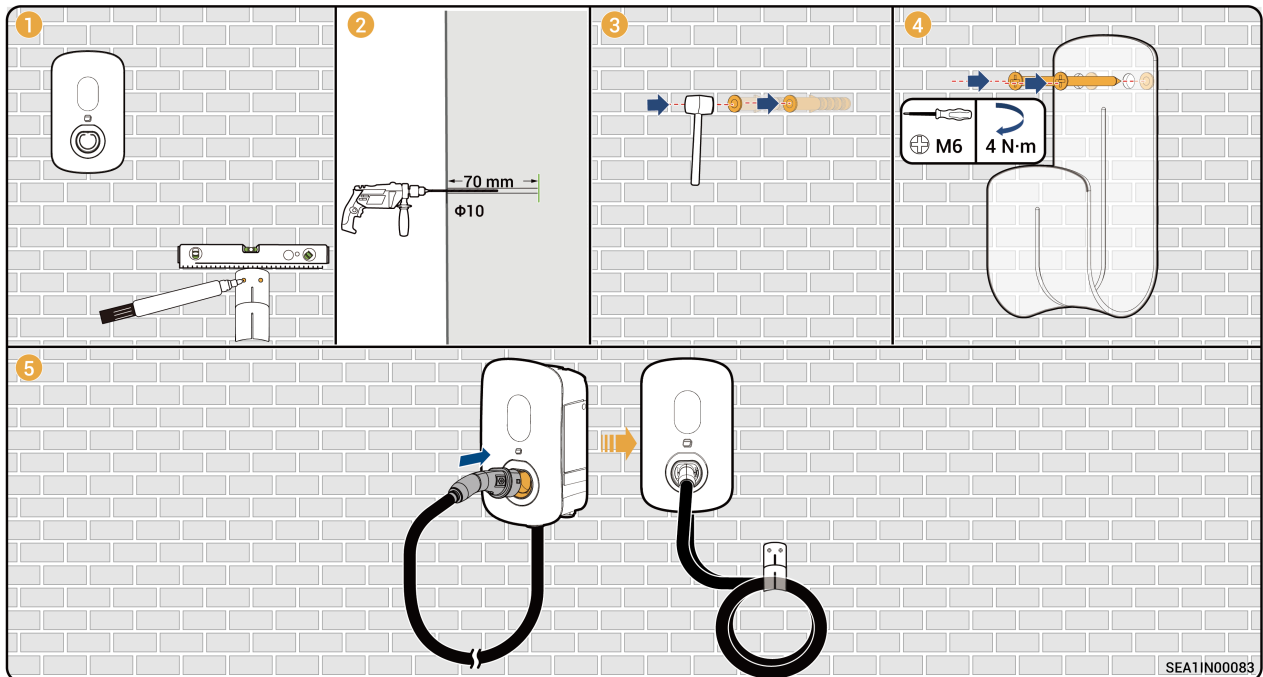
2. After confirming that everything is correct, secure the cable-routing hole and install the panel (Step ④ is optional; only the padlock needs to be installed to help prevent device theft).



6.8 (Optional) Cable Holder Installation and Charging Connector Placement

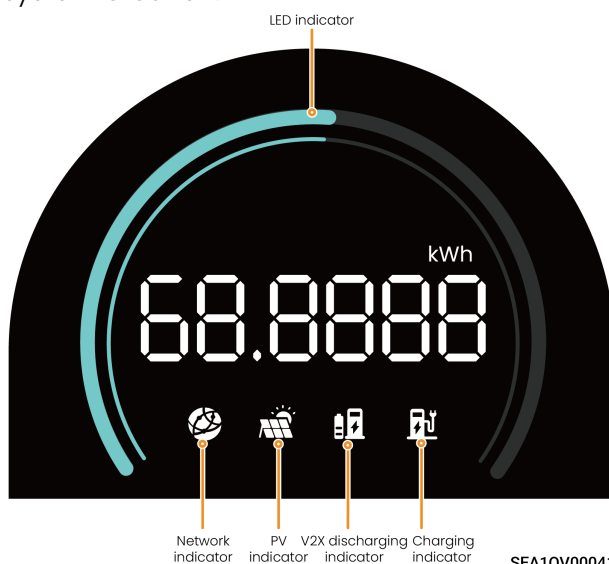
Tips

Sigen EVAC 2 7K/11K/22K T2 series must be installed and operated in accordance with this section; other models may disregard it.



Chapter 7 Device Power-on

1. Turn on the upstream AC switch.
2. Observe the status of the front display screen of Sigen EVAC 2 to understand the device status.
3. When the network indicator on the display screen is steady green or steady blue, use the mySigen App for new system creation.

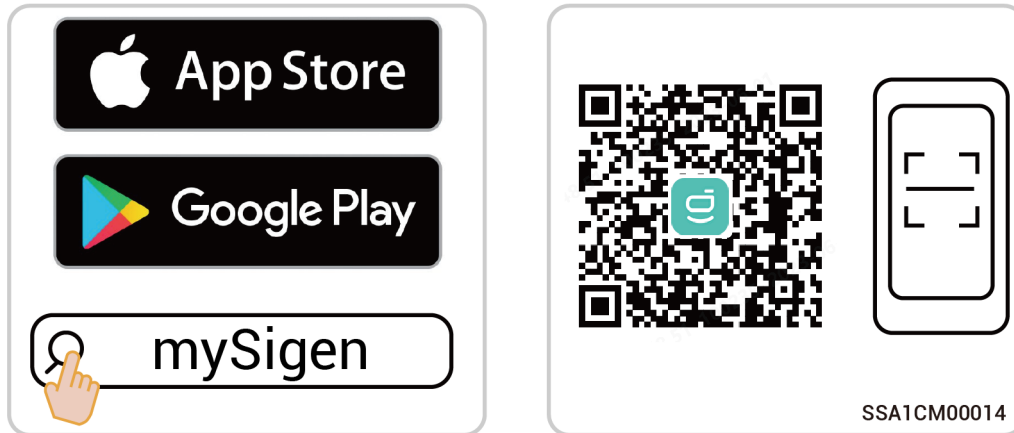


Indicator	Color	Status	Meaning
		Blinking	The near-end app has been connected
		Steady on	The management system has been connected via FE or WLAN
		Steady on	The management system has been connected via 4G
		Blinking	Insufficient 4G data allowance
		Steady on	PV surplus charging
		Blinking	Vehicle discharging
		Blinking	Vehicle charging
		Steady on	No charging connector inserted
		Steady on	Charging connector inserted but not authenticated; charging paused; charging completed; or discharging completed
		Breathing	Scheduled charging with the charging connector inserted
		Flowing	Charging

Indicator	Color	Status	Meaning
		Flowing	Discharging
		Steady on	Fault

Chapter 8 Creating New Systems

App Download



Registering an Installer Account

- It is recommended that your installer registers an account for completing the system creation process.
- After the installer completes the procedure, notify the owner to check for an email from "sigencloud" within 24 hours, activate the account, log in to the App, and bind the RFID card.

Method 1: Please visit our company's website (<https://business.sigencloud.com/business-service/user/register>) and complete the account registration based on your circumstances.

Method 2: Open the App, tap the "Register" button at the bottom, and complete the account registration according to your actual situation.

Creating a New System

For detailed system creation procedures, please refer to the [Sigen EV AC Charger](#) chapter in the mySigen App Guide for Creating New Systems.