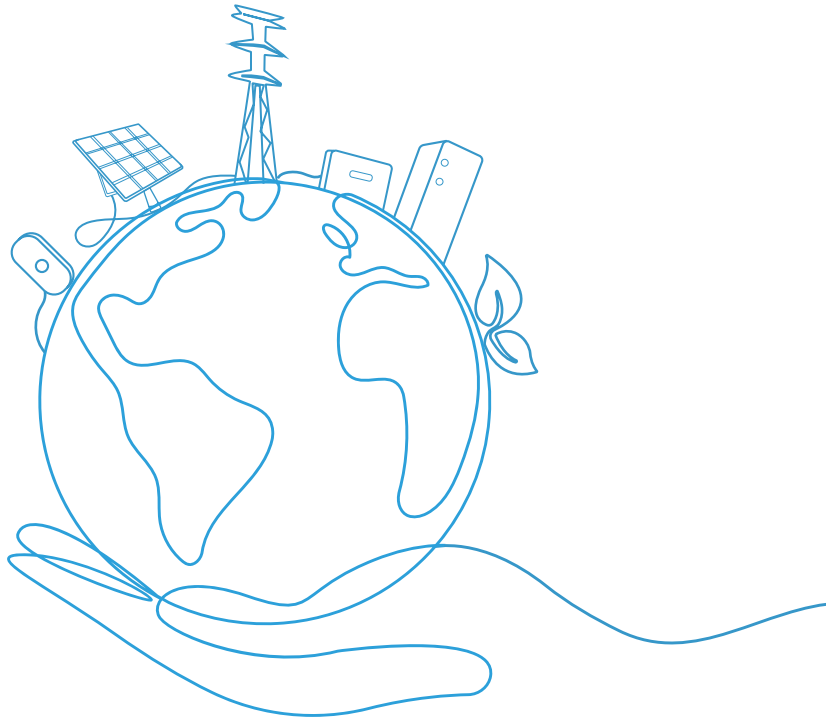
# User Manual

## AC EV Charger

v1.0 2025-06



LIVOLTEK

# Legal Information



## About This Manual

The user manual (hereinafter referred to be “the manual”) includes instructions for using and managing the product. Pictures, charts, images and all other information hereinafter are for description and explanation only. This manual cannot be reproduced, changed, translated, or distributed, partially or wholly, by any means, without the written permission of LIVOLTEK. The information contained in the manual is subject to change, without notice, due to firmware updates or other reasons. Please find the latest version of this manual at the LIVOLTEK website (*https://www.livoltek.com*).

Please use this manual with guidance and assistance of professionals.

This manual is applicable to the following models:

- R3B21E1E
- R3B21B1E
- R3B03E1E
- R3B03B1E
- R3B23E1E
- R3B23B1E

## Trademarks

- LIVOLTEK and other LIVOLTEK's trademarks and logos are the properties of LIVOLTEK in various jurisdictions.
- Other trademarks and logos mentioned are the properties of their respective owners.

## Warranty

Inquire product warranty at: *https://www.livoltek.com/warranty-center/*

LIVOLTEK has established clear guidelines regarding transportation, storage, installation, and usage of this product. To ensure optimal performance and safety, adherence to these guidelines is essential. LIVOLTEK will not provide free services, technical support, or compensation under the following circumstances:

- The device is beyond its warranty period and no extended warranty has been purchased.
- Failure to provide valid documentation, such as the serial number, warranty card, or purchase invoice.
- Damage resulting from human factors.
- Damage caused by force majeure events (e.g., earthquakes, floods, storms, fires).

- Installation or usage that violates local policies and regulations.
- Installation or usage that does not comply with the requirements specified in the user manual.
- Unauthorized modifications to the device's hardware or software.
- Obtaining communication protocols through unauthorized or illegal channels.
- Establishing a monitoring system without LIVOLTEK's authorization

# Safety Instruction

These instructions are intended to ensure that user can use the product correctly to avoid danger or property loss. Be aware that these instructions do not co er all instructions that should be observed, but function as supplements to them. LIVOLTEK shall not assume any responsibility for violations of any general design, production and operation safety instructions.

### Symbol Convention

The symbols that may be found in this document are defined as follows.

| Symbol | Description |
|---|---|
| DANGER | Indicates a hazardous situation which, if not avoided, will or could result in death or serious injury. |
| WARNING | Indicates a moderate or potential hazard situation which, if not avoided, will or could result in death or serious injury. |
| CAUTION | Indicates a low level of hazard situation which, if not avoided, will or could result in death or serious injury. |
| NOTE | Provides additional information to emphasize or supplement important points of the main text. |

### Laws and Regulations

- The product should be used and disposed of in compliance with local laws, as well as electrical and fire safety regulations.

### Transportation and Storage

- Pay attention to the warning signs on the product packaging case before transportation.
- Avoid violent impact during transportation.
- Do not transport the product with flammable, explosive and corrosive matters.
- Maintain slow and steady movement throughout transportation.
- Store this product in a dry and well-ventilated environment, ensuring the product is not exposed to rain, snow or liquid substances and mechanical damage.
- Position the product strictly in accordance with the directional markings indicated on the packaging case.
- Do not place heavy objects on the product.

## Operation

**WARNING: Electrical hazard!** Mounting, wiring, commissioning and maintenance can only be performed by LIVOLTEK-authorized service providers. Unauthorized operation may result in electric shock, equipment damage, or voided warranty.

- Before installing or maintaining the product, ensure it is completely de-energized
- Do not install or use the product in or near flammable, explosive, chemical, or vapor environments.
- For indoor-only device, install it in a dry and well-ventilated environment.
- Avoid operating the product in areas subject to strong vibrations, impacts, or significant electromagnetic interference.
- Do not remove safety symbols, warning labels, or nameplates from the product.
- Never spray water or other liquids onto the product. Submerging the charging connector in water is strictly prohibited.
- Ensure children do not approach, touch, or operate the product.
- Do not insert fingers or sharp objects into any section of the product.
- Do not drop, crush, or damage any components of the product. Discontinue use the product immediately if any part of it shows any signs of damage, including cracks, exposed wiring, or other defects.
- This product is designed exclusively for Electric Vehicle (EV) charging. Do not use it for anything else.
- Before charging an electric vehicle using the product, read the instructions of the vehicle carefully.
- Avoid touching the charging connector and the vehicle inlet with metal objects. If damage or foreign matter is observed in the charging connector or the vehicle inlet, discontinue use immediately.
- When connecting or disconnecting the charging connector, apply appropriate force and press the unlock button (if any) to prevent damage.
- Before starting charging, ensure the charging connector is fully engaged with the vehicle inlet.
- Do not forcibly pull the charging connector while it is locked.
- Do not drive or move the vehicle while the charging is in progress.
- Do not unplug the charging connector while charging is in progress.
- Confirm that both the charging connector and the vehicle inlet are dry before charging. If any component is found to be wet or soaked, do not use the product.

- Do not install or use this product in extreme weather conditions.
- Upon charging completes, promptly return the charging connector to its designated holder to prevent contamination.
- Do not use private generators as power sources for the product.
- Do not use adaptors, conversion adapters, or extension cords with this product, as these can compromise safety and performance.

### Maintenance

Do not disassemble, repair, or modify the product and its related components without authorization from LIVOLTEK. Unauthorized handling may result in device damage, water or electric leakage, or personal injury. For maintenance, upgrades, or any technical assistance, contact LIVOLTEK customer service. LIVOLTEK shall not assume any responsibility for problems caused by unauthorized repair or maintenance.

# Content

# 1. Product Introduction

## 1.1 Appearance & Dimensions

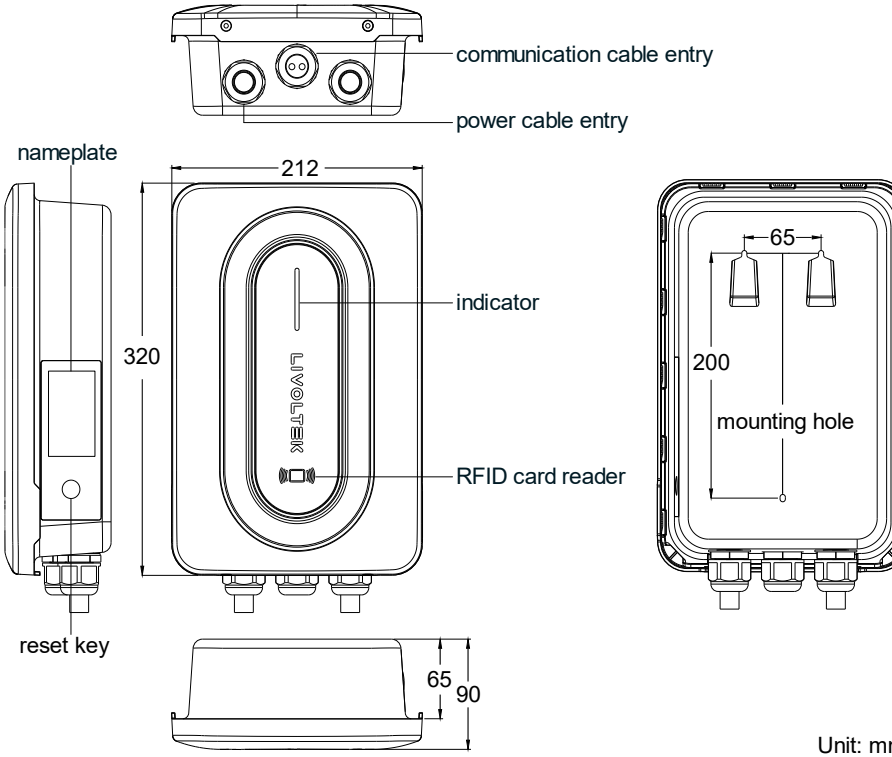



**Figure 1-1 Appearance & Dimensions**

## 1.2 Internal Interfaces

- **Single-phase**

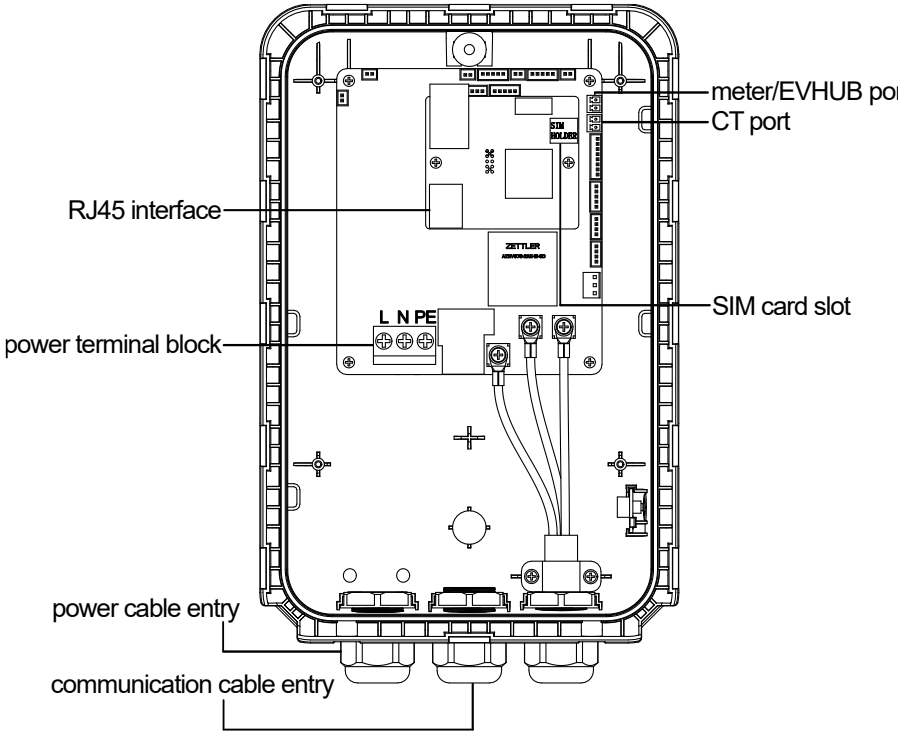



**Figure 1-2 Internal Interfaces (Single-phase)**

- **Three-phase**

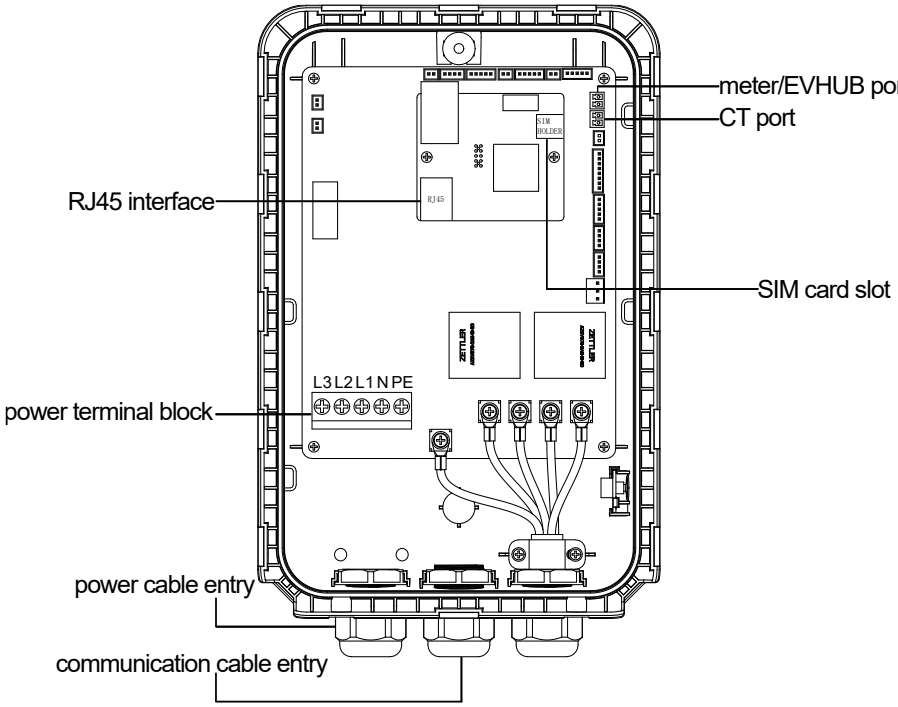



**Figure 1-3 Internal Interfaces (Three-phase)**

## 1.3 Packing List

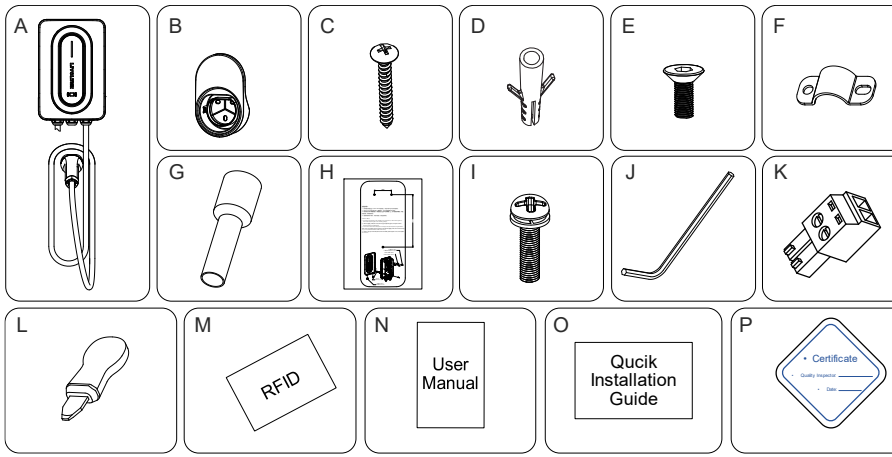



**Fig 1-1 Packing List**

| Item | Description | Item | Description |
|---|---|---|---|
| A | Charger×1 | I | M3*14 Combination Screw×2 |
| B | Charging Connector Holder×1 | J | Hex Key×1 |
| C | ST3.9*30 Self-tapping Screw×6 | K | Plug-in Terminal Block×1 |
| D | ⌀6*28 Expansion Anchor×6 | L | Pry Tool×1 |
| E | M4*10 Machine Screw×2 | M | RFID Card×2 |
| F | Cable Clamp×1 | N | User Manual×1 |
| G | E6012 Insulated Terminal×3 | O | Quick Installation Guide×1 |
| H | Drilling Template×1 | P | Certificate of Conformity×1 |

**Table 1-1 Packing List**

**NOTE**

- Packing list described below is based on single-phase models. For three-phase models, the quantity of **E6012 insulated terminals** is **5**, the quantities of other accessories are the same.
- After receiving the product, inspect the device appearance and accessories included for any damage, and verify that the contents match the packing list. Do not install the device If any issues are found; and contact your distributor or LIVOLTEK for assistance instead.

## 1.4 Specification

| Model | R3B21E1E | R3B03E1E | R3B23E1E |
|---|---|---|---|
| | R3B21B1E | R3B03B1E | R3B23B1E |
| Product Type | Single-phase | Three-phase | |
| Input/Output | | | |
| Rated Power | 7.3 kW | 11 kW | 22 kW |
| Rated Voltage | AC 230 V ±10% | AC 400 V±10% | |
| Rated Frequency | 50/60 Hz | | |
| Current Range | 6-32 A | 6-16 A | 6-32 A |
| Charging connector | Type 2 connector with 5-meter cable | | |
| Basic | | | |
| Charging Method | Plug & Charge/APP/RFID | | |
| Cooling | Natural Cooling | | |
| Operating Temperature | -30 ℃ to +50 ℃ | | |
| Storage Temperature | -40 ℃ to +70 ℃ | | |
| Operating Humidity | 5% to 95%RH | | |
| Operating Altitude | ⩽3000 m(Load reduced when above 2000m) | | |
| Ingress Protection | IP65 | | |
| Dimensions (W×H×D) | 212 mm ×320 mm ×90 mm | | |
| Mounting Method | Wall-mounting (pedestal-mounting optional) | | |
| Energy Management | Yes | | |
| Standby Power Consumption | <5 W | | |
| Protection | | | |
| Residual Current Protection | Built-in 30 mA AC/6 mA DC RCD | | |
| Protection | Overvoltage protection, undervoltage protection, overcurrent protection, grounding protection, surge protection, short circuit protection, fault self-check and other protection methods. | | |
| Others | | | |
| Status Indication | 3-color LED | | |
| Firmware Update | Local / OTA | | |

| | |
|---|---|
| Communication Method | Bluetooth/Wi-Fi&Ethernet/4G |
| Save Charging Record When Power Off | Yes |
| Electricity Measurement | On-board metering |
| External Communication | RS-485/AD/RJ45 |
| Monitoring | My Livoltek Cloud |
| Communication Protocol | OCPP 1.6J (optional) |
| Standard | |
| EMC | IEC-61851-21-2-2018 |
| Safety | IEC-61851-1-2017 |

# 2. Mounting & Wiring

**DANGER**

It is recommended that the mounting and wiring be performed by LIVOLTEK-authorized service providers.

**NOTE**

Illustrations in this section are based on single-phase models. The mounting and wiring steps are similar for three-phase models.

## 2.1 Prerequisites for Mounting & Wiring

### 2.1.1 Finding a Proper Installation Environment

When determining the installation location, consider the following suggestions:

**Location Requirements**

- Ensure the device is away from areas with severe vibration or high temperature.
- Ensure the device is away from low-lying places where water may accumulate or drip.
- Ensure the device is away from direct sunlight; installation under a canopy or sunshade is recommended.
- Ensure the device is at a place where the indicator lights can be easily seen, and is convenient for electrical connection, operation, and maintenance
- Ensure that the temperature and humidity of the installation environment comply with the device's specification.
- Install the device such that the lowest point of the stored charging connector is positioned 0.5 m to 1.5 m above ground level.
- Ensure proper placement of the connector holder relative to the charger, as the charging cable extends up to 5 meters.
- To enable Wi-Fi connectivity, ensure the charger is installed within an area with stable wireless network coverage.

**Mounting Carrier**

- Ensure the mounting carrier is able to support the weight of the device and its accessories without tilting or deformation.
- Ensure there is water pipes, gas pipes, and steam pipes inside the mounting carrier.

- Ensure the mounting carrier is flat, and has adequate area for mounting.
- Ensure the device is vertically mounted, with a low center of gravity to prevent tilting or overturning.
- Do not mount the device on tilted surfaces.

### 2.1.2 Preparing Installation Equipment

For safety reasons and to facilitate installation, it is recommended that the following equipment be prepared in advance.

- Protective Equipment

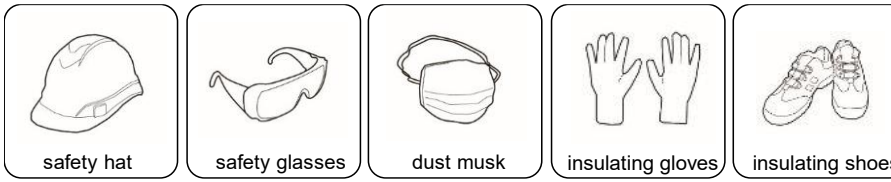



**Fig 2-1 Protective Equipment**

- Mounting & Wiring Tools

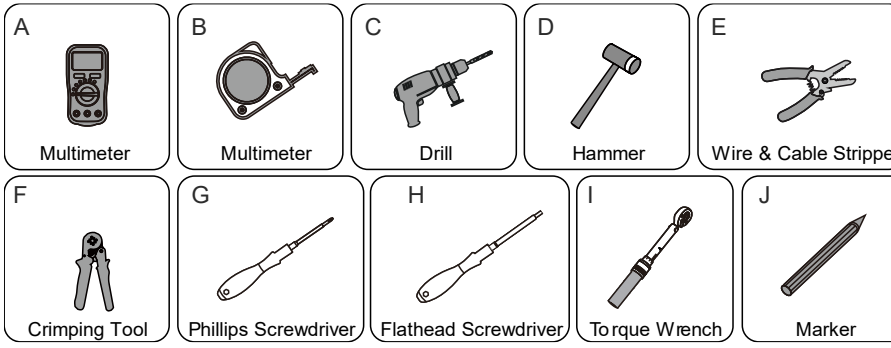



**Fig 2-2 Mounting & Wiring Tools**

## 2.2 Mounting

This section introduces how to mount this device onto a wall and a pedestal.

**Before You Start**

- Wear protective equipment and have the mounting tools ready.
- Ensure the device and its accessories are complete and intact (see 1.3 Packing List).

- Ensure the installation site meets all necessary environmental requirements.

### 2.2.1 Wall Mounting

**Steps**

**Step 1.** Place the drilling template and the charging connector holder on the wall, then mark 6 drilling points.

**Step 2.** Drill 6 holes (Φ 6 mm x 35 mm deep) at the marked positions using a drill.

**Step 3.** Hammer the 6 expansion anchors into the drilled holes.

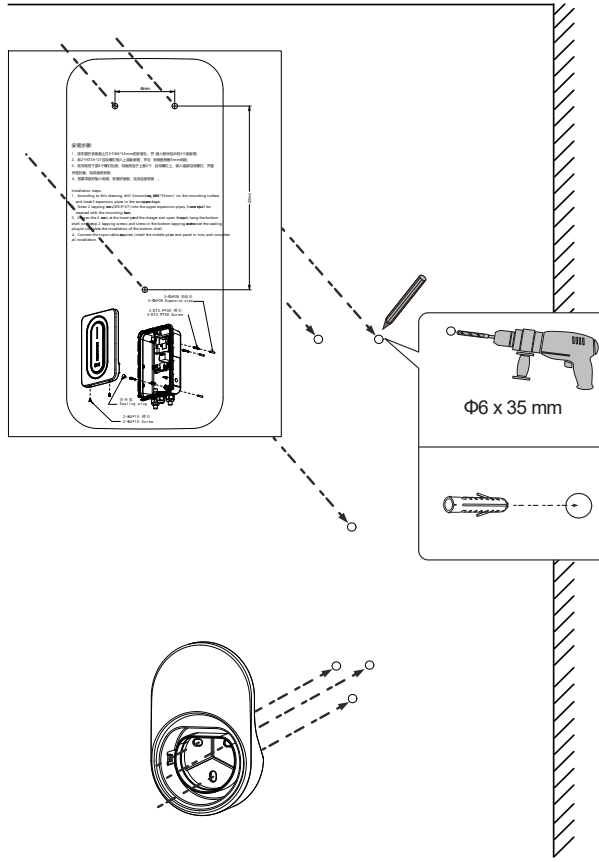



**Fig 2-3 Marking Drilling Positions**

**Step 4.** Drive 2 self-tapping screws into the two upper expansion anchors for charger mounting, leaving a 5 mm distance between the screw heads and the wall.

**Step 5.** Mount the charger onto the wall.

a) Detach the front cover from device using the pry tool, then remove the waterproof plug from the mounting hole at the lower part of the device.

b) Align the mounting holes on the upper rear section of the device with the pre-installed self-tapping screws, then securely mount the device onto the wall.

c) Drive one more self-tapping screw through the mounting hole at the lower part of the device into the other expansion anchor.

d) Reinstall the waterproof plug.

**Step 6.** Secure the charging connector holder onto the wall using 3 other self-tapping screws.

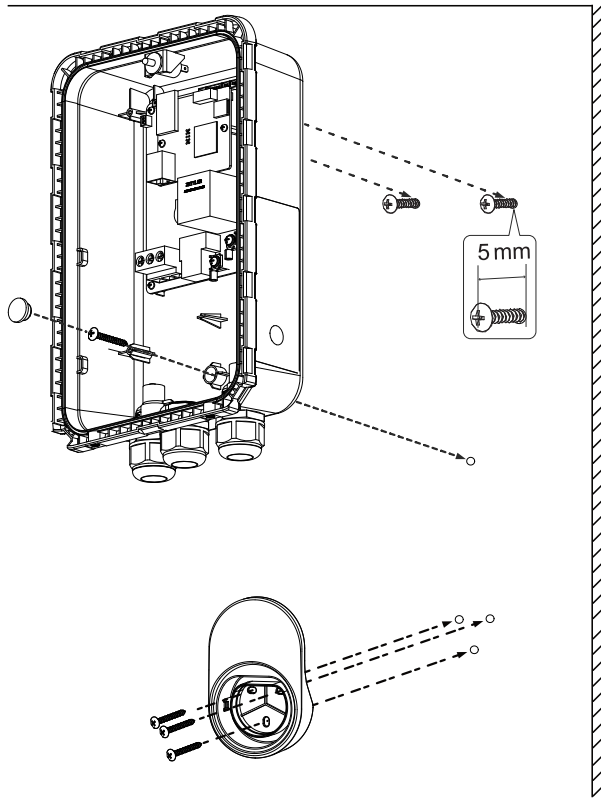



**Fig 2-5 Mounting Charging connector Holder**

### 2.2.2 Pedestal Mounting

**Before You Start**

Make a cement base with dimensions of at least 500*400*120 mm (L*W*H) at the installation site. The recommended diameter of the power cable passage inside the base is 80 mm.

**Steps**

**Step 1.** Put the pedestal on the cement base, ensuring the power cable is directly below the pedestal.

**Step 2.** Lift the cover of the pedestal's base and mark 4 drilling positions.

**Step 3.** Set the pedestal aside and drill 4 mounting holes (Φ10 mm × 100 mm deep) at the marked positions.

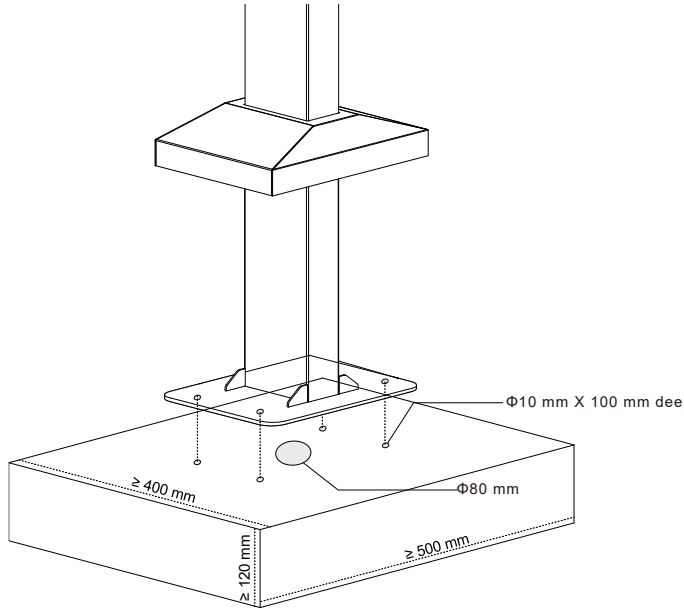



**Figure 2-6 Installation Base**

**Step 4.** Route the power cable through the pedestal.

a) Detach the cable outlet cover from the pedestal with a screwdriver.

b) Route the power cable into the pedestal from the pedestal bottom.

c) Route the power cable through the cable outlet and the cable outlet cover.

d) Adjust the cable length, then reinstall the cable outlet cover back.

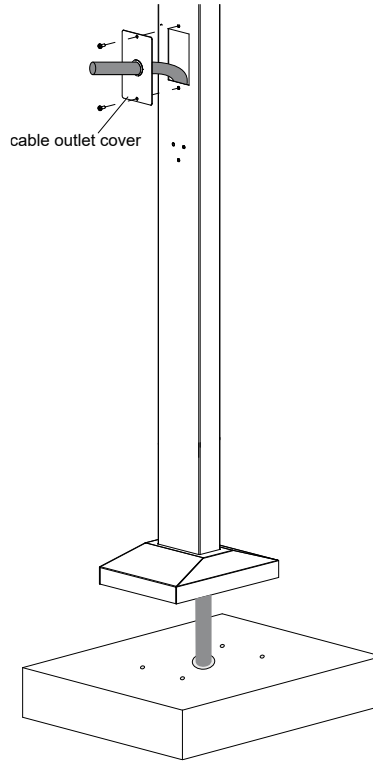



**Figure 2-7 Leading Power Cable out of Pole**

**Step 5.** Secure the pedestal onto the installation base.

a) Lift the cover of the pedestal's base plate.

b) Align mounting holes at the pedestal's base plate with the pre-drilled holes.

c) Insert the M4×10 expansion bolts through the aligned holes and tighten securely with a torque wrench.

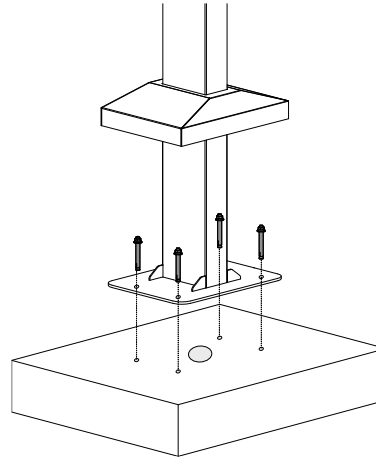


**Figure 2-8 Securing Pole**

**Step 6.** Drive 2 pre-applied adhesive screws into the 2 upper mounting holes on the pedestal using a screwdriver, leaving a 5 mm distance between the screw heads and the pole surface.

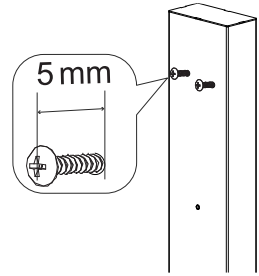



**Figure 2-9 Driving Pre-applied Adhesive Screws**

**Step 7.** Mount the charger onto the pedestal.

a) Detach the front cover from device, and remove the waterproof plug from the mounting hole at the lower part of the device.

b) Mount the charger onto the two upper screws.

c) Secure the charger onto the pole using another pre-applied adhesive screw, then reinstall the waterproof plug.

**Step 8.** Secure the charging connector holder onto the pedestal using 3 other pre-applied adhesive screws.

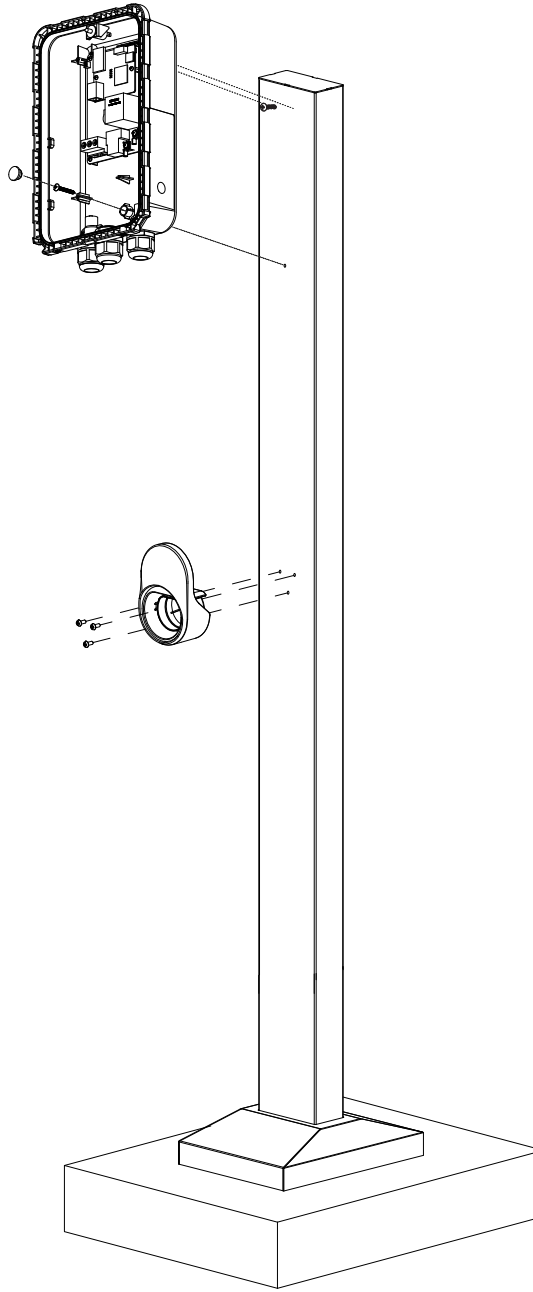


**Figure 2-10 Mounting Charger & Charging connector Holder**.

## 2.3 Wiring

This section describes the wiring methods for the device, including power cable connection and network cable and communication cable connection. Cables used for wiring should be prepared by the customer themselves. Refer to the table below for recommended cable specifications.

| Item | R3B21E1E<br>R3B21B1E | R3B03E1E<br>R3B03B1E | R3B23E1E<br>R3B23B1E |
|---|---|---|---|
| power cable outer diameter | 13.8±0.35 mm | 12.8±0.35 mm | 17.1±0.35 mm |
| cross-sectional area of wires inside power cable | 6 mm² | 2.5 mm² | 6 mm² |
| RJ45 network cable (Ethernet network connection, optional) | EIA /TIA 568B standard | | |
| twin-core communication cable outer diameter (Meter/EMS connection, optional) | ⩾5.5 mm | | |
| cross-sectional area of wires inside the twin-core communication cable | 20-22 AWG | | |

**NOTE**

The RJ45 network cable and twin-core communication cable may be omitted if your device does not support Ethernet or Meter/EMS connectivity, or if the two functions are not desired.

**Before You Start**

- Ensure to wear protective equipment and have the wiring tools ready.
- Ensure the device has been mounted securely.
- Ensure a 2P/4P RCBO, 40A, type A / 30mA has been installed upstream of the device and

confirm it is in the OFF position.

- Prepare the necessary cables mentioned above.

**DANGER**

Verify that the RCBO is in the OFF position to prevent electrical hazards!

### 2.3.1 Wiring Diagram for Different Earthing Systems

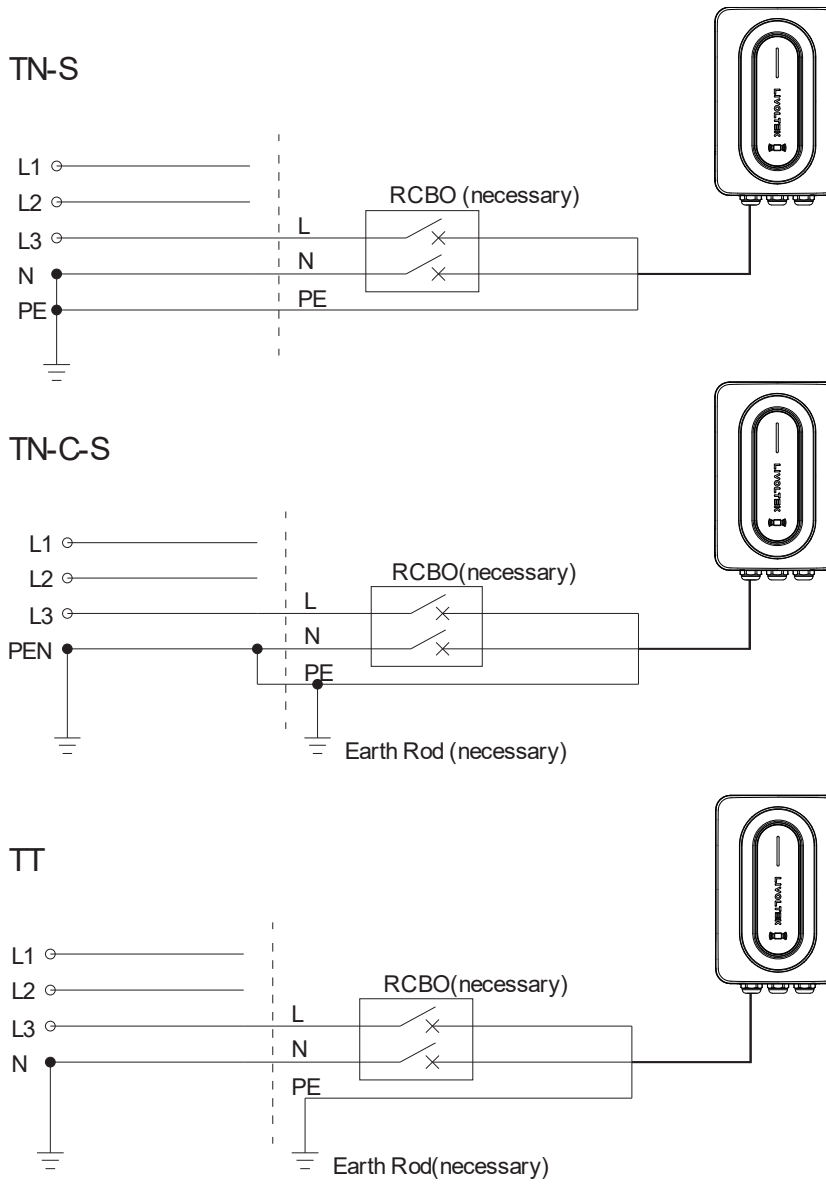



**Figure 2-11 Earthing System**

### 2.3.2 Power Cable Wiring

**Steps**

**Step 1.** Route the power cable inside the device.

a) Loosen the gland of the power cable entry, then pull the sealing plug out of the entry.

b) Remove the seal of the sealing plug to create a passage for the power cable.

c) Route the power cable through the gland and the sealing plug, then into the device, leaving an appropriate length inside.

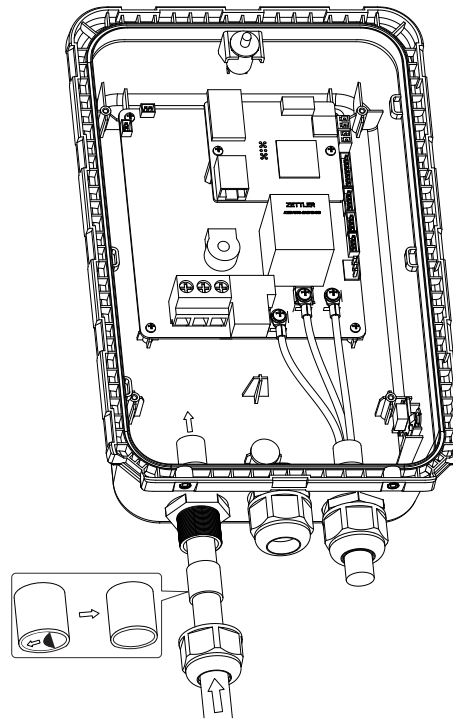


**Figure 2-12 Leading Power Cable Inside Device**

**Step 2.** Strip the power cable, and crimp the insulated terminals onto the power wires.

a) Strip the outer jacket of the power cable to a length of 70 mm (single-phase) or 90 mm (three-phase), exposing the internal L/N/PE wires.

b) Strip 12 mm of insulation from each L/N/PE wire.

c) Fully insert the stripped end of the L/N/PE wires into the insulated terminals until the insulation meets the terminal's edge.

d) Using an appropriate crimping tool, compress the barrel of the insulated terminals

firmly around the wire. Ensure that the crimp is secure and that the wire is held tightly.

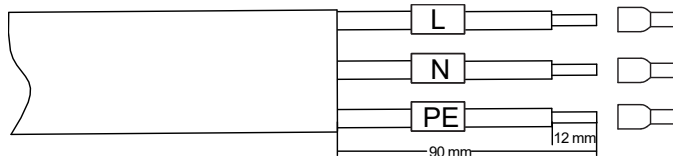



**Figure 2-13 Stripping Power Cable (Single-phase)**

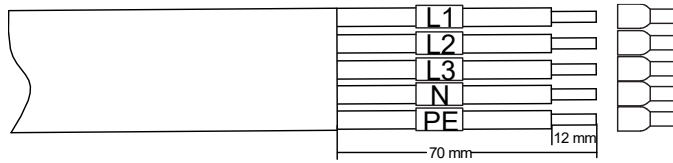



**Figure 2-14 Stripping Power Cable (Three-phase)**

**Step 3.** Terminate the L/N/PE wires to their corresponding terminals.

a) Loosen the power terminal screws using a screwdriver to create sufficient space for wire insertion.

b) Insert each wire into its corresponding terminal.

c) Tighten all terminal screws securely (recommended torque: 5 N·m).

d) Verify secure connections by gently pulling on each wire.

**Step 4.** Adjust the cable position and firmly fix it in place by installing the cable clamp around it.

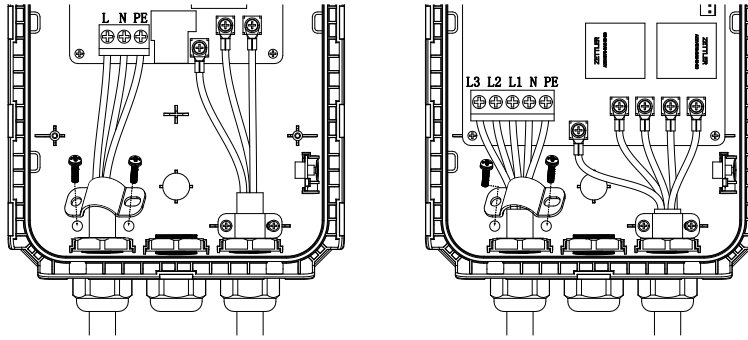



**Figure 2-15 Connecting Wire Ends to Terminals**

**Step 5.** Re-insert the sealing plug and secure the gland back.

**NOTE**

It is recommended to install a Class C 1P+N+PE surge protection device (SPD) upstream of the charger.

### 2.3.3 Network Cable Wiring

This device supports network communication via Ethernet interface (RJ45). To achieve this function, please prepare an EIA/TIA 568B standard network cable.

**Steps**

**Step 1.** Route the network cable into the device.

a) Loosen the gland of the communication cable entry, and pull the main sealing plug out of the entry.

b) Detach the small sealing plug near the RJ45 port of the main sealing plug to create a passage for the network cable.

c) Route the network cable through the gland and the now-open channel in the main sealing plug, then into the device.

**Step 2.** Crimp the network cable to a RJ45 connector using a crimping tool.

**Step 3.** Insert the crimped RJ45 connector firmly into the RJ45 port until it clicks into place.

**Step 4.** Verify secure connections by gently pulling on the RJ45 cable.

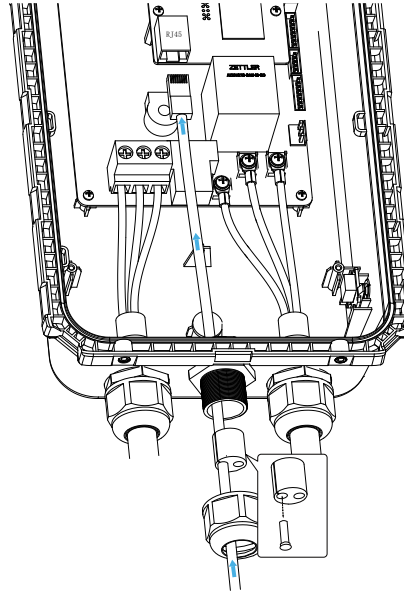



**Figure 2-17 Connecting RJ45 Cable**

**NOTE**

Network cable wiring is optional. Please skip this step if your device doesn't support this function,

or if you don't need it.

### 2.3.4 Meter/EVHUB Communication Cable Wiring

This device uses RS-485 interface to realize communication with meters and the EVHUB system. To achieve this function, please prepare a twin-core communication cable. The recommended twin-core communication cable should have a minimum outer diameter of 5.5mm, and wires inside should have a cross-sectional area of 20-22AWG.

**Steps**

**Step 1.** Route the twin-core communication cable into the device.

a) Loosen the gland of the communication cable entry, then pull the main sealing plug out of the entry.

b) Detach the small sealing plug from the right side of the main sealing plug to create a passage for the communication cable.

c) Feed the twin-core communication cable through the gland and the now-open channel in the main sealing plug, then into the device.

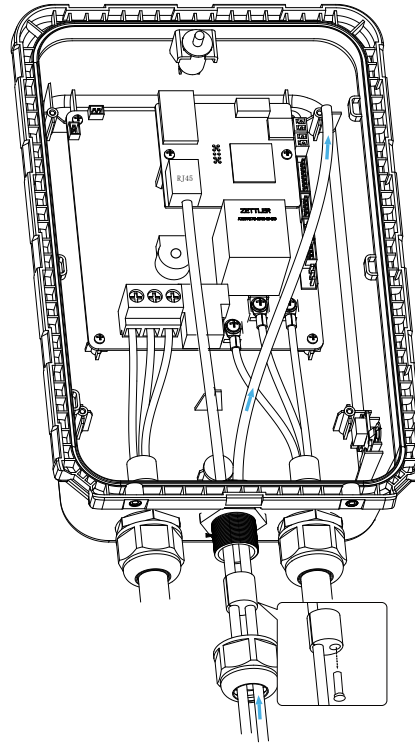


**Figure 2-18 Leading Communication Cable Inside Device**

**Step 3.** Strip the communication cable and wires inside it.

a) Properly strip the outer jacket of the communication cable to reveal the internal 2 wires

b) Strip 10mm of insulation from the 2 wires.

**Step 4.** Terminate the 2 wires to the plug-in terminal block.

a) Loosen the terminal screws using a screwdriver to create sufficient space for wire termination.

b) Insert the 2 stripped wire ends into terminals on the plug-in terminal block, then secure the screws back.

c) Verify secure connections by gently pulling on each wire.

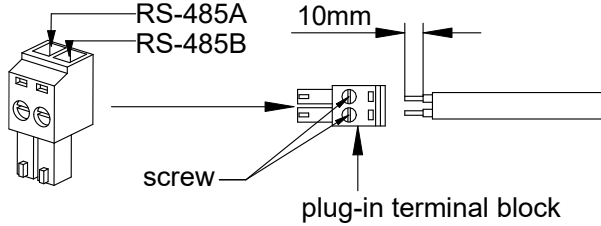



**Figure 2-19 Connecting Communication Cable**

**Step 5.** Align and engage the plug-in terminal block with its connector until fully seated.

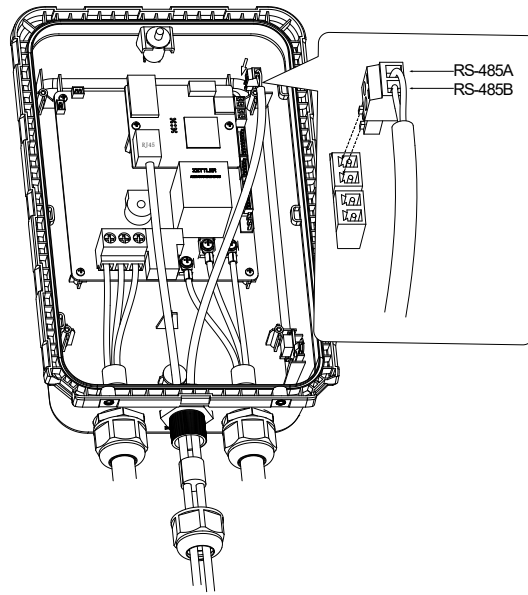


**Figure 2-20 Installing Plug-in Terminal Block**

**Step 6.** Adjust the cable length, then re-insert the sealing plug and secure the gland.

> **NOTE**
>
> Meter/EVHUB Communication Cable Wiring is optional. Please skip this step if you don't need it.

### 2.3.5 Inserting SIM Card

Insert the SIM card into the SIM card slot as shown below.

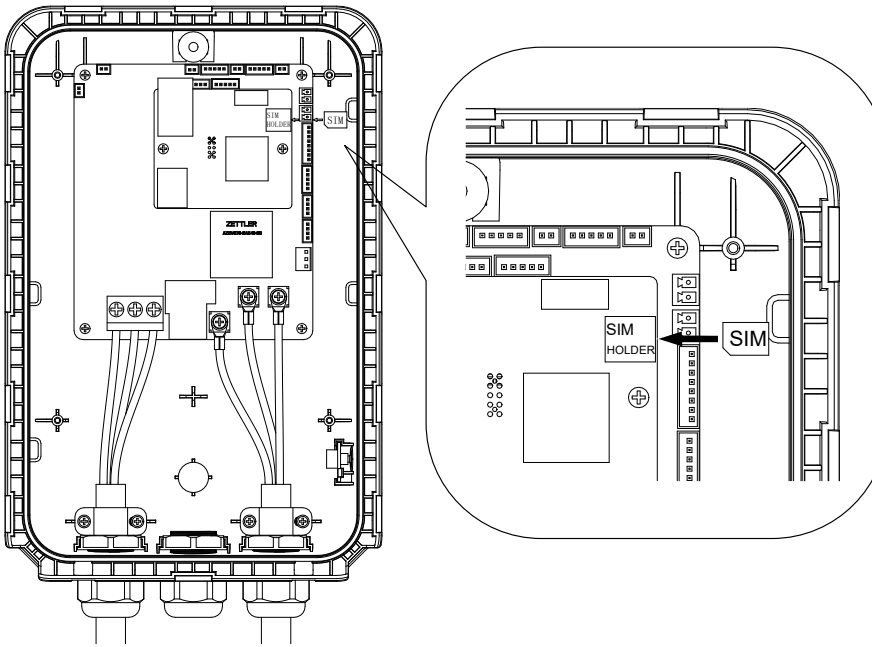



**Figure 2-21 Inserting SIM Card**

> **NOTE**
>
> Inserting SIM card is optional. Please skip this step if your device doesn't support this function, or if you don't need it.

# 3. Power-on Commissioning

The indicator light turns on when powered, with different indicator statuses indicating various device statuses.

## 3.1 Normal Status

| Indicator Pattern | Description |
|---|---|
| Green light steady on | Standby, waiting for charging connector connection to vehicle inlet |
| Blue light flashing (1s on/1s off) | Charging connector connected to vehicle inlet, awaiting charging command |
| Blue light flashing (500ms on/500ms off) | Charging command issued, waiting for vehicle-side to close contactor S2 |
| Blue light steady on | Charging in process |
| Blue light flashing (1s on/2s off) | Charging completed |
| White light flashing 10 times (200ms on/off) | RFID card accepted |

## 3.2 Fault Status

| Indicator Pattern | Description |
|---|---|
| White light steady on | PEN Grounding Alarm |
| | Overtemperature Derating Alarm |
| | Cover Open Warning |
| | Device Blocked. |
| Red light flashing (500ms on / 2s off), repeats | CP Status (Voltage) Abnormal |
| Red light flashing 2x (500ms on/off) / 2s off, repeats | Leakage Current Fault |
| Red light flashing 3x (500ms on/off) / 2s off, repeats | Residual Current CT Loop Self-Test Fault |
| Red light flashing 4x (500ms on/off) / 2s off, repeats | Over/Under-voltage Fault |

| | |
|---|---|
| Red light flashing 5x (500ms on/off) / 2s off, repeats | Over/Under-frequency Fault |
| Red light flashing 6x (500ms on/off) / 2s off, repeats | Overcurrent Fault |
| Red light flashing 7x (500ms on/off) / 2s off, repeats | Relay Welding/Short Circuit Fault |
| Red light flashing 8x (500ms on/off) / 2s off, repeats | Output Relay Over-temperature Fault |
| Red light flashing 9x (500ms on/off) / 2s off, repeats | Reverse Polarity Fault |
| Red light flashing 10x (500ms on/off) / 2s off, repeats | On-board Terminal Over-temperature Fault |

**WARNING**

Repair and maintenance can only be performed by LIVOLTEK-authorized service providers. Contact LIVOLEKT for assistance When a fault occurs.

# 4.Configuring Network & Charging Mode

Upon power-up, the device enters the AP Mode (Access Point Mode), and emits a hotspot for 5 minutes. Access the AP Mode address to configure the device's network and charging mode by using a smart phone or computer to connect to the hotspot.

## 4.1 Accessing the AP Mode Address

**Steps**

**Step 1.** Power on the device and wait for it to emit a hotspot (hotspot name: device's serial number).

**Step 2.** Use a smartphone or computer to search for and connect to the hotspot (hotspot password: livol123).

**Step 3.** Open a browser on the connected device and navigate to the AP Mode address: *198.161.4.1*

**Step 4.** Enter the access password (contact LIVOLTEK for password) and click **Login**.

**Step 5.** Upon successful login, the interface navigates to the **Home** page automatically.

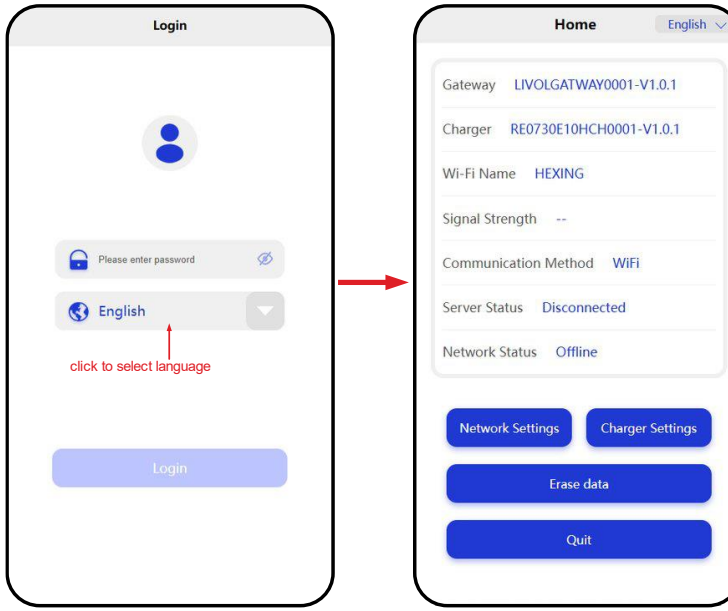



**Figure 4-1 Accessing the AP Mode address**

**NOTE**

The device's hotspot is restricted to the AP Mode address and does not provide access to any other networks.

## 4.2 Network Configuration

**Before You Start**

Current device version support Wi-Fi and Ethernet network connection. Before Configuring Network, ensure at least one condition below is met.

- The device is covered by a stable and high-speed Wi-Fi network.
- The device is connected to a stable and high-speed Ethernet network. See details at 2.3.3 Network Cable Wiring。

### 4.2.1 Wi-Fi Network Configuration

Wi-Fi network nonfiguration is optional. Skip this step when using Ethernet network.

**Before You Start**

Ensure the device is covered by a stable and high-speed Wi-Fi network.

**Steps**

1. On the **Home** page of the AP Mode address, click **Network Settings**.
2. Select **WiFi→Auto mode**.
3. Select the Wi-Fi network to be connected to and enter the password.
   (Optional: when the preferred Wi-Fi network cannot be found, click **others** in the Wi-Fi network list to add the Wi-Fi network manually.)
4. Enter Sever address: **wss://cscp.hxgroup.com/ocpp/RE0730E10HCH0001**.
5. Select the earthing type of the device.
6. Click **Confirm** to complete Wi-Fi network configuration.

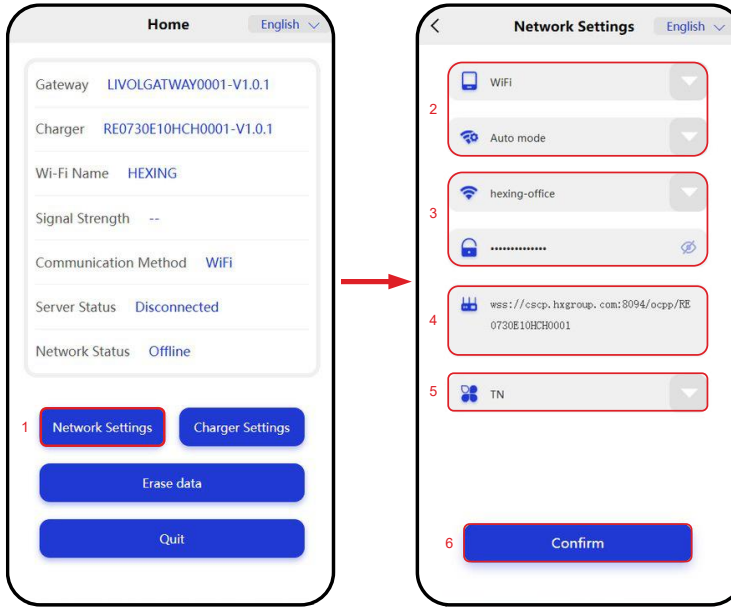



**Fig 4-2 Wi-Fi Network Configuration**

> **NOTE**
> The device will reboot automatically after the network configuration is completed. Please wait.

### 4.2.2 Ethernet Network Configuration

Ethernet network configuration is optional. Skip this step when using Wi-Fi network.

**Before You Start**

Ensure the device is connected to a stable and high-speed Ethernet network.

**Steps**

1. On the **Home** page of the AP Mode address, click **Network Settings**.
2. Select **Ethernet**。
3. Enter Sever address: **wss://cscp.hxgroup.com/ocpp/RE0730E10HCH0001**.
4. Select the earthing type of the device.
5. Click **Confirm** to complete ethernet network connection.

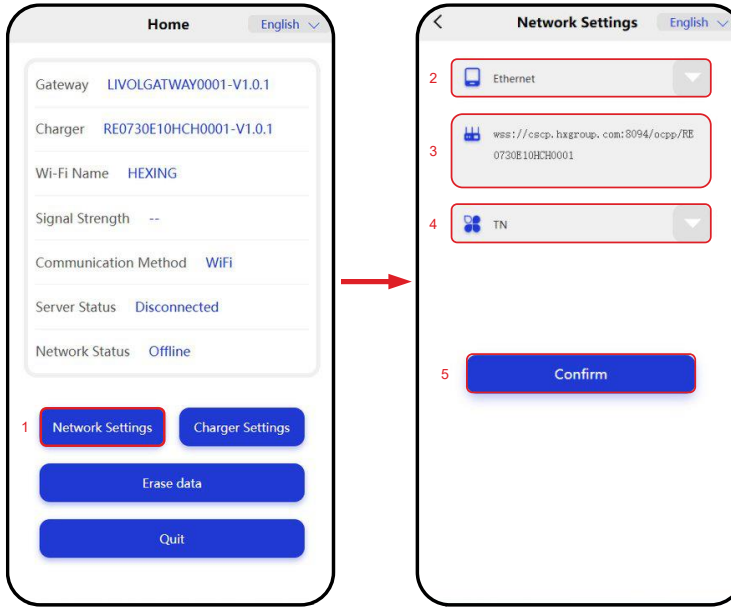



**Figure4-3 Ethernet Network Configuration**

**NOTE**

- Some device models do not support Ethernet interface, please refer to actual device models.
- The device will reboot automatically after the network configuration is completed. Please wait.

## 4.3 Charging Mode Configuration

The device support 3 charging modes: Network Mode, Plug & Play Mode and Offline Mode。Refer to Table 4-1 for details of each mode。

| Charging Mode | Description |
|---|---|
| Network | Managing the device using My Livoltek app online (Network). |
| Plug & Play | Plug & Charge |
| Offline | Managing the device using APP My Livoltek app locally (Bluetooth). |

**Table 4-1**

**Steps**

1. On the **Home** page of the AP Mode address, click **Charger Settings→Switch Charging Modes**.
2. Select a charging mode.

3. Click **Confirm** to complete charging mode configuration.

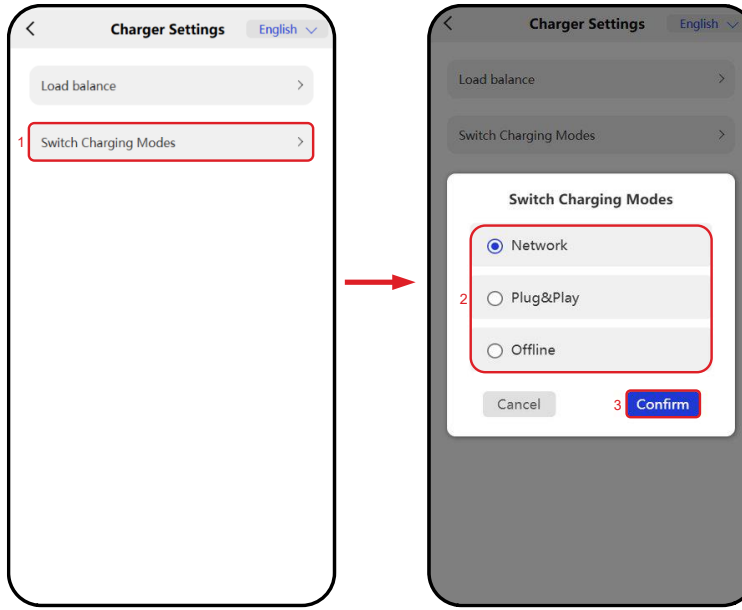



**Figure4-4 Charging Mode Configuration**

# 5 APP Operation

After successful network connection, the device can be remotely managed using the MyLivoltek app (hereinafter referred to as MyLivoltek) on a smartphone. For overseas testing, version 4.0.0 of the MyLivoltek app is used. If version 4.0.0 is not available in the app store, please contact LIVOLTEK for assistance.

**Figure 5-1 My Livoltek**

**Before You Start:**

- Ensure the device has been powered on.
- Ensure the device has been connected to the network, and the charging mode has been set to **Network** (see 4.3 Charging Mode Configuration).
- Ensure My Livoltek v.4.0.0 is installed.

## 5.1 Registering My Livoltek End User Account

**Steps**

**Step 1.** Open My Livoltek and enter the login page.

**Step 2.** Click Register at the bottom of the login page.

**Step 3.** Select the sever based on the device's installation location

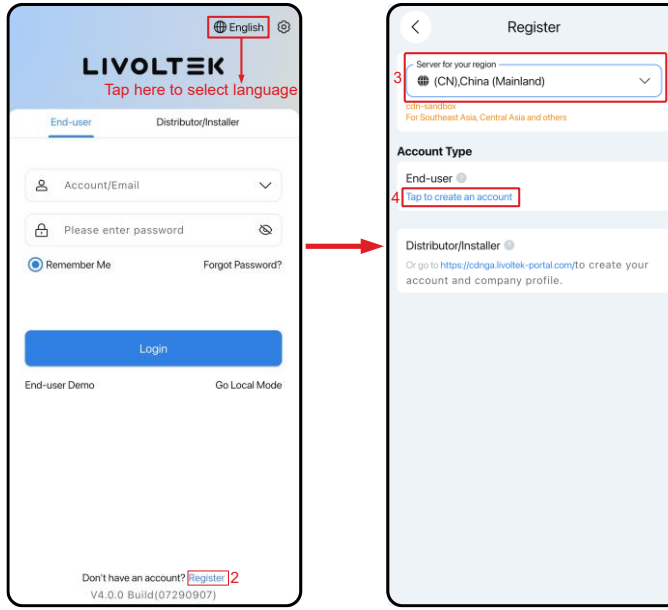



**Figure 5-1 Registering End User Account**

**Step 4.** Enter the required information.

**Step 5.** Tap **Sign UP** to complete registering, and the interface navigates to the Welcome page automatically.

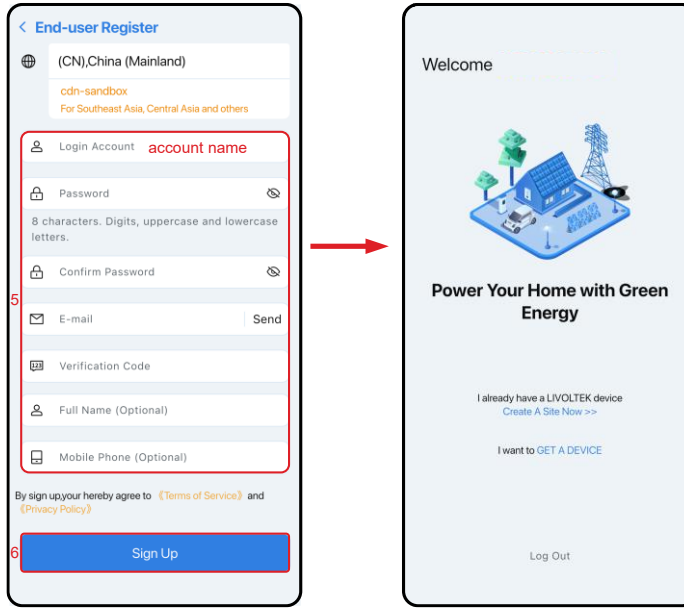



**Fig 5-3 Details Page**

## 5.2 Managing the Device Using My Livoltek

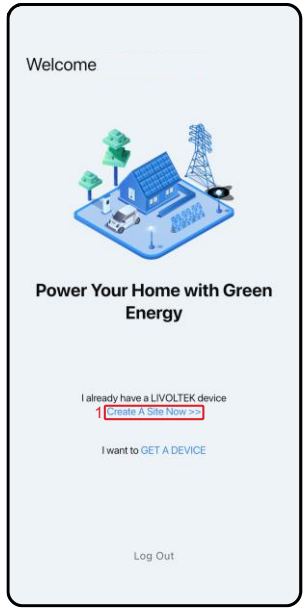
My Livoltek uses sites to systematically manage multiple devices. Add your device to a site to achieve efficient management.

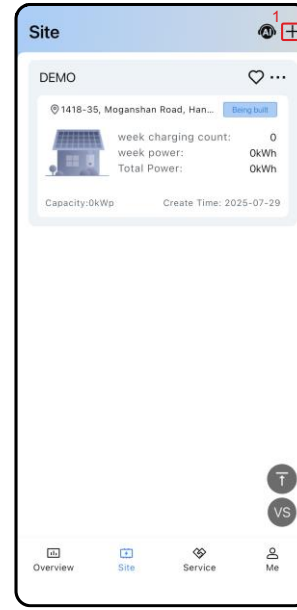
### 5.2.1 Create a MyLivoltek Site

#### Steps

**Step 1.** For account with no site: Tap **Create A Site Now>>** on the Welcome page.

For account with at least 1 site: Tap + in the top-right corner of the Site page.




**Step 2.** Set a name for the site and enter the installer.

> **NOTE**
> Select "Livoltek(Livoltek)" when no installer is available.

**Step 3.** Tap **Map** to set the site location.

Optional: Tap **Manual** to enter the location manually.

**Step 4.** Tap Next Step.

**Step 5.** Set System Type to **Residential EV Charger** and tap **Next Step**.

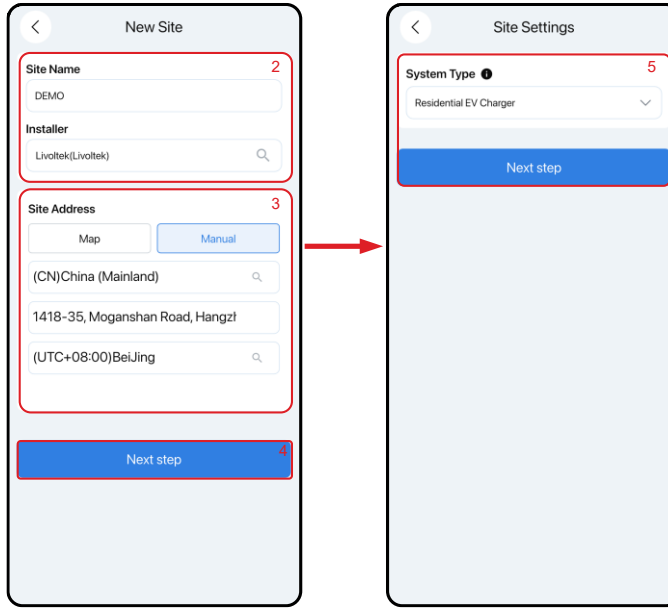



**Figure 5-4 Basic Settings**

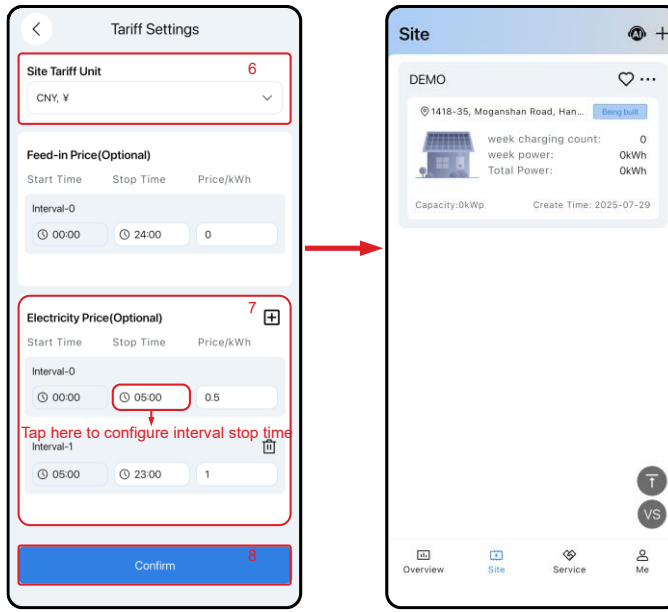
**Step 6.** Tap Site Tariff Unit to select the currency code.

**Step 7.** Configure Electrical Price (optional).

**NOTE**

- It is supported to create multiple intervals (an interval refers to a specific time segment) based on different electrical pricing times.
- The start time of the first interval and the end time of the last interval must together cover exactly 24 hours.

**Step 8.** Tap **Confirm** to complete site creation, and the interface navigates to the Site page automatically.




### 5.2.2 Add Your Device to a Site

> **NOTE**
>
> A device can only be added to **one** site.

**Steps**

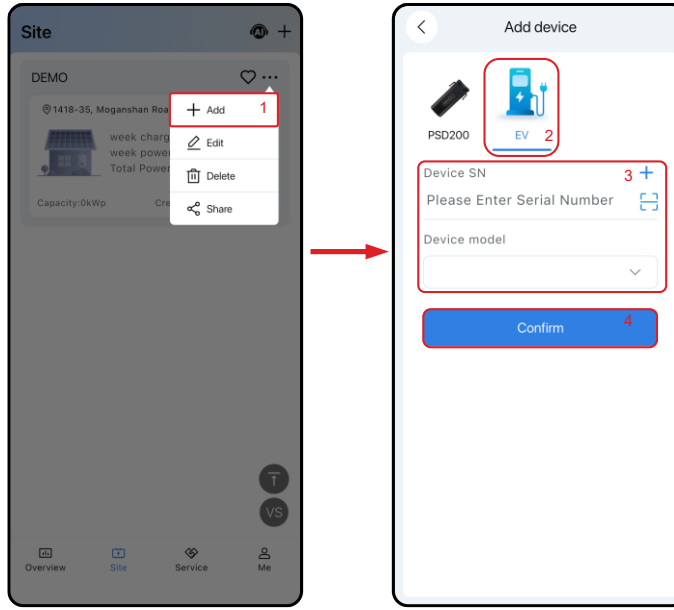
**Step 1.** On the Site page, click ... → **+ Add** in the top-right corner of a site.

**Step 2.** Select **EV**.

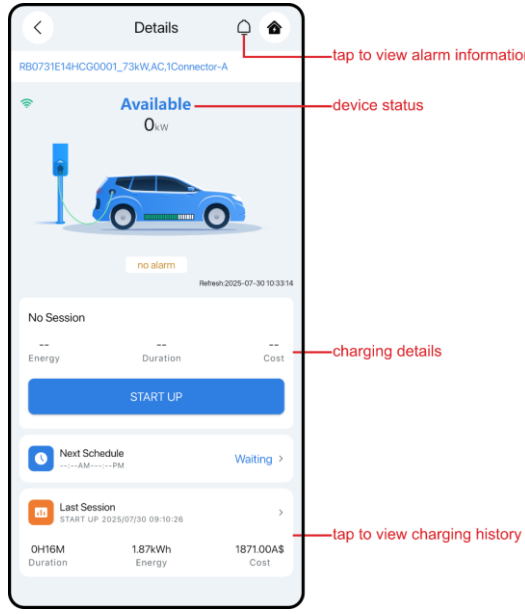
**Step 3.** Enter device' SN and select the device mode.

Optional:可选操作: Tap **+** to batch add devices of the same model.

**Step 4.** Tap **Confirm**.




Upon successful adding, the interface navigates to the Details Page of the added device.



Device in standby mode will display a device status of Avalable. See Table for more device statuses.

| Status | Description |
|---|---|
| Available | Standby |
| Preparing | Charging initiated, but has not begun |
| Charging | Charging in process |
| SuspendedEVSE | Charging paused due to charger side (e.g., no power supply). |
| SuspendedEV | Charging paused due to vehicle side (e.g., battery full) |
| Finishing | Charging complete, waiting for unplug. |
| Reserved | Charger reserved for a future charging, not available for others. |
| Unavailable | Not available |
| Faulted | A fault has occurred |

### 5.2.3 Deleting a device from the site

**Steps**

**Step 1.** On the Device page, find the device to be deleted.

**Step 2.** Swipe left and tap the trash bin icon.

**Step 3.** Tap **Confirm**.

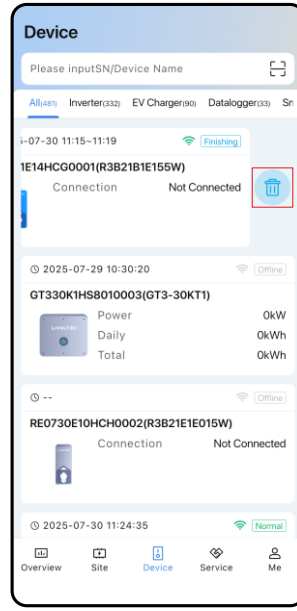



**Fig 5-10 Configuring Local Tariff**

### 5.2.4 Managing the Site

#### 5.2.4.1 Editing Site

**Steps:**

**Step 1.** On the Site page, find the site to be added.

**Step 2.** Tap ... → **+ Add** in the top-right corner of the site.

#### 5.2.4.2 Deleting Site

**Steps**

**Step 1.** On the Site page, find the site to be deleted.

**Step 2.** Click ... → **Delete**→ **Confirm** in the top-right corner of the site.

> **CAUTION**
> Deleting a site will delete all devices added to it.

#### 5.2.4.3 Sharing Site

It is allowed to share the site with other users, allowing them to access devices in the site within

a specified time and with configurable permission.

**Steps**

**Step 1.** On the site page, click ... in the top-right corner of the site to be shared.

**Step 2.** Tap **share**.

**Step 3.** Enter the user account to be shared with.

Optional: tap **New Owner** to create a new account.

**Step 4.** Configure **Station Permission** (what permission the other user can have). See Table for permission details.

| Permission | Description |
|---|---|
| Browse Site | The other user can view your site. |
| Browse Site and Equipment | The other user can view your site and devices added to this site. |
| Browse Site and Device Charging Control | The other user can view your site and devices added to this site, and use these devices. |

**Step 5.** Set **validity period**.

**Step 6.** Tap **Save**.

**Step 7.** Tap **Share Record** to view share history.

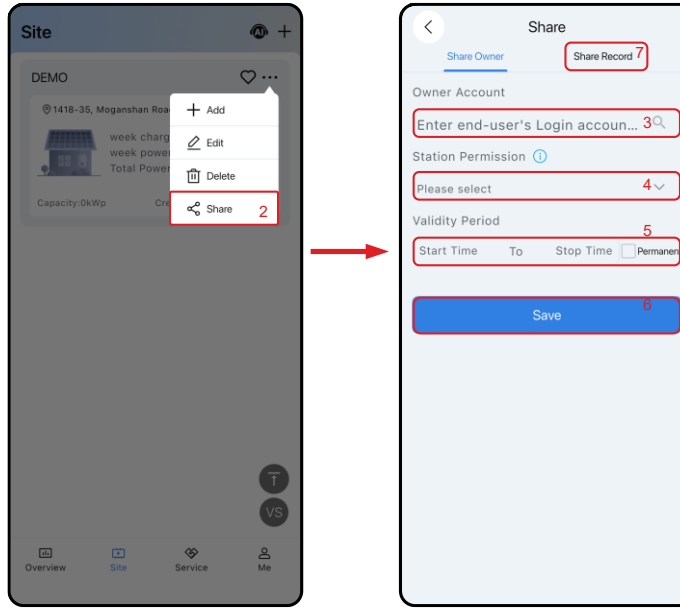



**Fig 5-11 Sharing Site**

**NOTE**

The other user can have the permission to view or use all devices added to the site you shared with him. If you wish only to let the other user access certain devices, it is recommended to create a separate site for these devices.

# 6. Starting and Ending Charging

## 6.1 Charging with My Livoltek

**Before you start:**

- Ensure the device has been added to My Livoltek.
- Ensure the device's charging mode has been set to Network.
- Ensure the device is in standby mode (indicator is steady green).

### 6.1.1 Starting Charging

**Steps:**

**Step 1.** Power on the device and wait until it enters the standby mode (indicator is steady green).

**Step 2.** Open My Livoltek and enter the Details page of the device, ensuring the charger status displays "**Available"**.

**Step 3.** Connect the charging connector to the vehicle inlet, charger status turns to "**Preparing**".

**Step 4.** Tap **START UP**, charger status turns to "**Charging**".

### 6.1.1 Ending Charging

**Steps**

**Step 1.** On the Details page of the device, tap **End Up** → **Confirm**, charger status turns to "**Finishing**"。

**Step 2.** Return the charging connector to its designated holder, charger status turns to "**Available**"

## 6.2 Plug & Charge

#### 6.2.1 Starting Charging

**Before you start:**

Ensure the charging mode has been set to **Plug&Play**.

**Steps**

**Step 1.** Power on the device and wait until it enters the standby mode (indicator is steady green).

**Step 2.** Connect the charging connector to the vehicle inlet (indicator flashes blue, 1s on/off).

The charging process begins upon the complete connection between the vehicle and the charger (indicator is steady blue).

### 6.3.2 Ending Charging

Charging completes when either the vehicle battery reaches full capacity, or the vehicle actively terminates the charging process.

**WARNING**

- Never forcibly disconnect the charging connector to stop charging!
- Always return the charging connector to its designated socket on the charger after use.

LIVOLTEK

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