

# Instruction Manual

## Mode 3 Wall-mounted EV Charger



# 1. TABLE OF CONTENTS

## **Safety Instructions .....3**

### **Quick Start .....4**

#### **Overview .....5**

- Product diagram and controls
- Screen Display  
LED Status Indicator
- Usage of A and C Keys

## **Specifications .....8**

### **Initial Setup Guide .....8**

- Accessing the Setup Interface
- Setting Maximum Charging Current
- Setting Up NFC Card Authentication
- Setting Up DLB Pairing (Optional)
- Setting Screen Alarm Language

### **Detailed charging guide .....10**

- Simple Charging by Current Setting  
(A key)
- Scheduled Charging  
(C key)

## **Alerts and Protection .....13**

- Leakage Protection
- Unearthed Socket
- Control Box Overheat Protection
- Undervoltage Protection
- Overvoltage Protection
- Overcurrent Protection
- EV Diode Not Detected
- System Error

## **Using the Tuya App .....14**

- Setup — Connecting to the App
- App Interface & Status Icons
- Control and Monitor Charging
- Time-Based Automation

## **Frequently Asked Questions .....19**

## **Warranty Agreement .....20**

## **Declaration of Conformity .....20**

## **Installation .....21**

Upstream Protection

Wiring

Installation onto Wall

Installation onto Standing Metal Pole

### **General Information and Product Features:**

The Wall Box Charger includes current regulation and charging scheduling functions. With the built-in Wi-Fi feature, charging power and schedules can be adjusted conveniently via the mobile application. The charger is equipped with comprehensive safety protections, including over-voltage protection, under-voltage protection, overload protection, short-circuit protection, leakage protection, over-temperature protection, and surge protection, ensuring safe and reliable operation.

The device features a waterproof and dustproof IP66 protection rating, making it suitable for both indoor and outdoor use. Temperature monitoring is integrated: if internal sensors detect values exceeding safe limits, charging will automatically pause and resume once conditions return to normal.

An automatic error-correction system allows the charger to detect and attempt to resolve charging issues, such as communication errors with the vehicle, and restart the charging process when possible.

**Thank you for choosing our Wall Box Charger.**

**By following these instructions, you can enjoy a safe, reliable, and efficient charging experience.**

# Safety first

Before embarking on a seamless and efficient charging experience with your new Wall Box Charger, please read the following safety instructions carefully. These guidelines are designed to ensure your safety and the optimal performance of the charger.

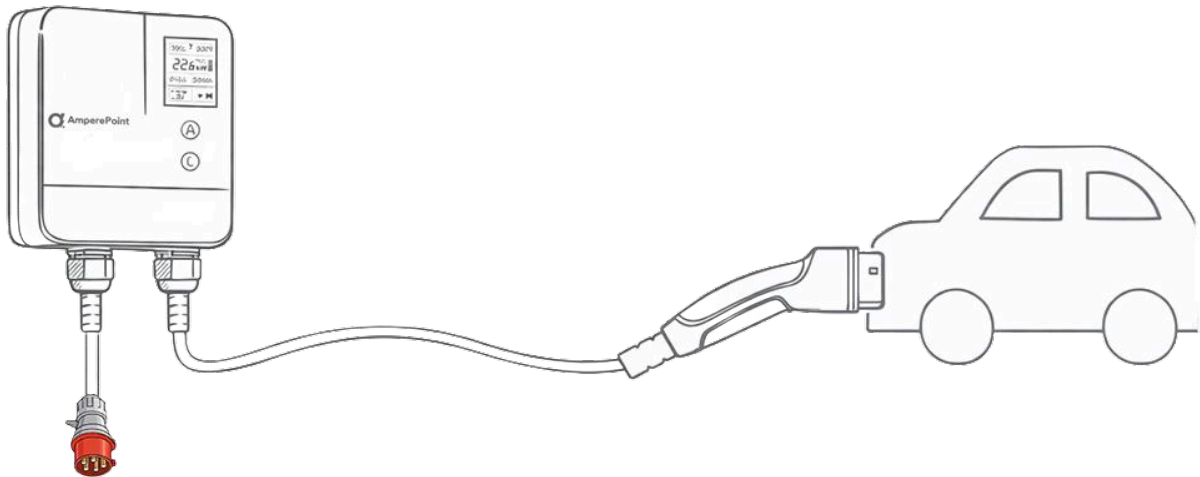
## Safety Instructions

- 1. Intended Use:** This charger is designed exclusively for charging electric vehicles (EVs) and plug-in hybrid electric vehicles (PHEVs) with identifier C, in accordance with the EN 17186 standard. Use the charger only as described in this manual and in your vehicle manufacturer's documentation to reduce the risk of electric shock, fire, or equipment damage.
- 2. Inspection and Condition:** Before each use, inspect the charger, cable, and connector for any visible damage, cracks, or wear. Do not use the charger if it is damaged or malfunctioning. Never attempt to repair or modify the device yourself, as it contains no user-serviceable parts.
- 3. Safe Handling:** Avoid touching live connector terminals with bare hands or metal objects. Always ensure your hands are dry before operating the charger. Do not step on, pull, bend excessively, crush, or place heavy objects on the cable or charger. Handle the device gently and avoid dropping it.
- 4. Environmental Conditions:** Use and store the charger in dry conditions, away from water, oil, and other liquids. Do not immerse the charger in water. If the cable or charger becomes wet, do not use it and allow it to dry naturally—never attempt to dry it using a hairdryer or other heating device. Do not operate the charger in temperatures outside the range of -25°C to +50°C, or near high-temperature objects. Do not place the charger in a sealed or enclosed space, such as inside a car, while charging.
- 5. Electrical Safety:** Always connect the charger directly to a properly grounded power socket that matches the charger's rated power. The electrical circuit must be protected by residual current protection (RCD) and appropriate overcurrent protection, selected and installed by a qualified electrician. For safety and efficiency reasons, **do not use adapters or extension cords (electric or Type 2) with this charger.**
- 6. Operation Rules:** Always unplug the charger from the vehicle before starting or driving the car. Ensure the plug and connector are free from foreign objects before use; if any are detected, disconnect the power first and remove them carefully. Do not touch the charging connector during operation.
- 7. Child and Pet Safety:** Keep the charger and cables out of reach of children and pets to prevent injury or damage.
- 8. Faults and Damage:** Do not use the charger if it is damaged or not functioning correctly. In case of any problems, faults, or abnormal behavior during use, stop charging immediately and contact your distributor or service provider.

**Thank you for choosing our Wall Box Charger.**

**By following these instructions, you can enjoy a safe, reliable, and efficient charging experience.**

# Quick Start



1. Step 1: Plug the charger into the power socket. The charger will automatically conduct a self-testing to ensure it's in perfect working order.
2. Step 2: Adjust the current and delay time setting if necessary (A & C Keys)
3. Step 3: Connect the Type 2 charging cable to your electric vehicle.
4. Note: All settings can modified after the type 2 connector has been plugged into vehicle's charging port only through mobile app.

## Type 2 (3 phase)

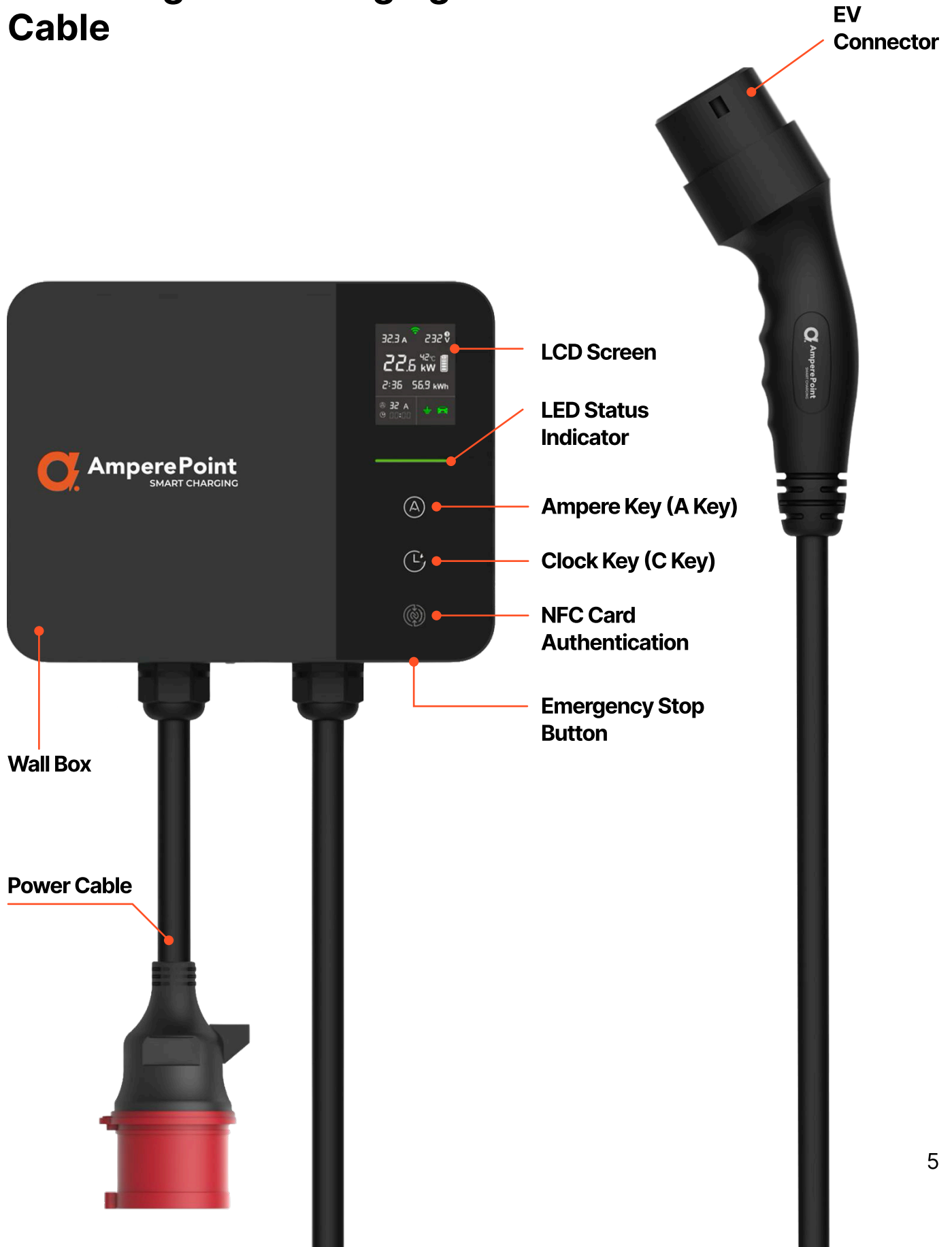


**Thank you for choosing our Wall Box Charger.**

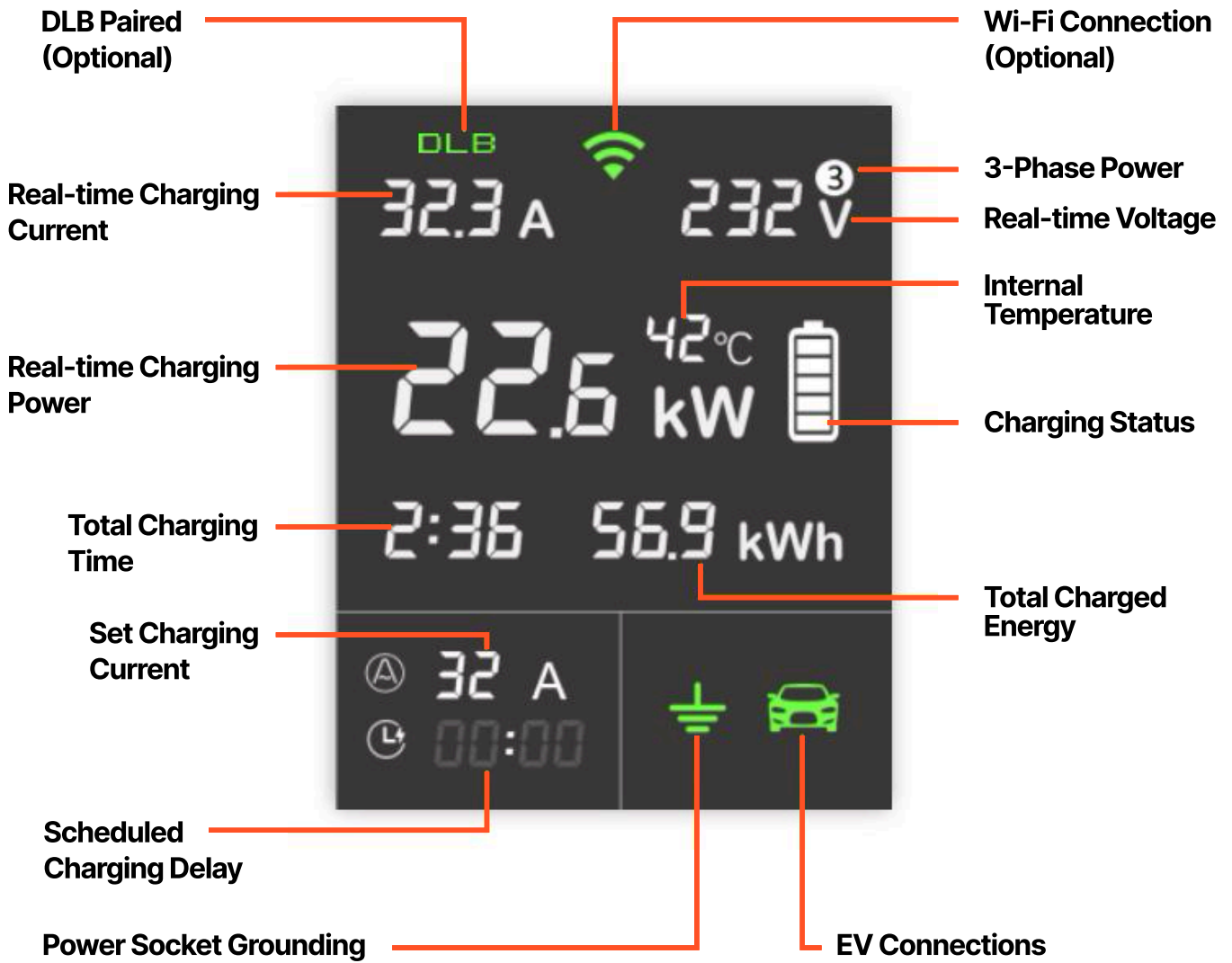
**By following these instructions, you can enjoy a safe, reliable, and efficient charging experience.**

# Overview

## Mode 3 Type 2 AC EV Charger with Integrated Charging Cable



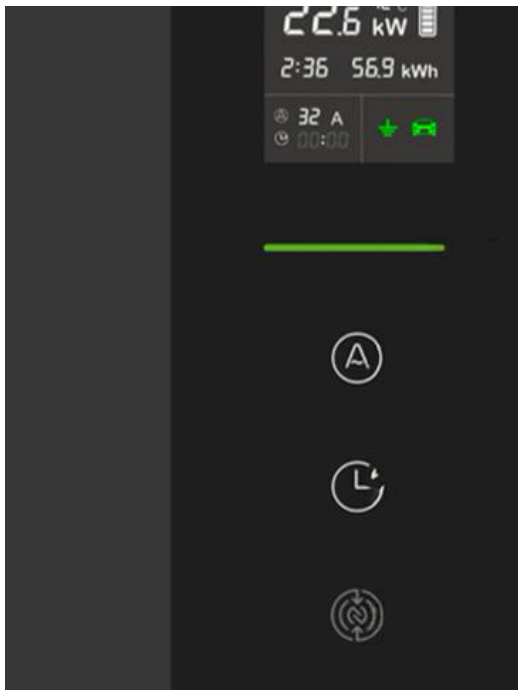
# Screen Display



Status	Icon Color
Grounded	Green
Grounding error	Red

Status	Icon Color
Ready to connect	White
Connected	Green
Connection error	Red

# A & C Keys, LED Status Indicator

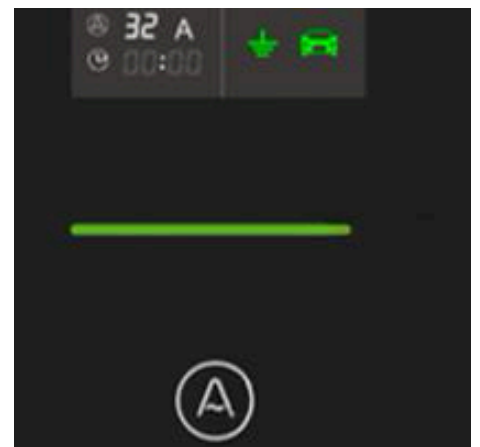


## Usage of A and C Keys

Key	Before Connection	Connected
A Key	Current Setting	Long press only
C Key	Schedule Setting	Long press only
A+C	Initial Setup	

## LED Status Indicator

Status	LED Status Indicator Color
Initial self-test	White
Charging ready or complete	Blue
Charging	Rolling green
Critical error	Flash red
Other error	Red



## Emergency Stop Button

In case of emergency do not hesitate to push the Emergency stop Button, located at the bottom of your wallbox. It will immediately cut off the power.

# Specifications

# Mode 3 Wall-mounted AC EV Charger

Model Number	M3A1-11	M3A1-11W	M3A1-22	M3A1-22W
Wi-Fi	Tuya Wi-Fi			
Rated Current	16A		32A	
Rated Voltage	400 V AC 3-phase 50Hz			
Rated Voltage	11 kW		22 kW	
RCD Protection	RCD Typ A 30mA AC + RDC-DD 6mA DC			
Degree of Protection	IP65 wallbox, IP66 plug			
Operating Temperature	-25°C to +50°C			
Operating Altitude	Up to 2000 m			
Cable	5 × 2.5mm <sup>2</sup> + 1 × 0.75mm <sup>2</sup>		5 × 6 mm <sup>2</sup> + 1 × 0.75mm <sup>2</sup>	
Dimensions	25cm/19,5cm/8cm			

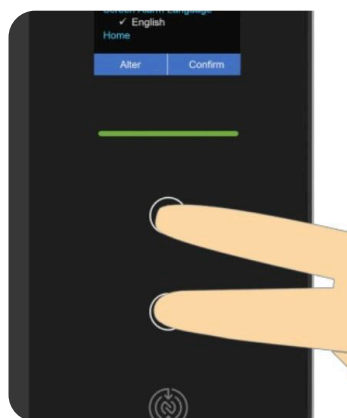
## Initial Setup Guide

Welcome to your new charging experience! Before you embark on using your charger for the first time, we strongly advise that you thoroughly read this manual, understanding the key safety notes and initial setup process, and ensure compliance with the local regulations and directives.

### Getting Started with Setup:

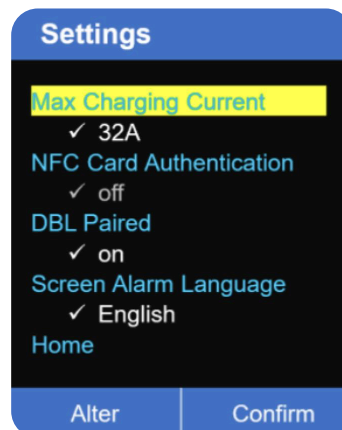
#### 1. Accessing the Setup Interface:

- Press and hold both the Amp key (A key) and the Clock key (C key) for 3 seconds to enter the setup interface, as shown on the right.
- Then **use the A key to Alter your options**. Once selected, **press the C key to Confirm** and proceed to the submenu settings.



### Friendly Reminder

- Please use the **initial setting feature only when the charger is not connected to your EV**. Note that once the charger is connected, the functionalities of a short press on either the A or C key, as well as the simultaneous press of both A and C keys, will be disabled to avoid any accidental interference with the charging process.



## 2. Setting Maximum Charging Current:

- Select **'Max Charging Current'** using the A key and confirm with the C key to access its settings.
- Adjust the settings with the A key as per your local directives, and confirm with the C key. This will return you to the main settings menu.

### Important

- **It is strongly recommended to set the maximum charging current** of your charger in accordance with local regulations and the specifications of your power supply system. This ensures that your charging process is safe and reliable.

## 3. Setting Up NFC Card Authentication:

- Select "NFC Card Authentication" and enter the submenu.
- By default, this feature is turned off.
- To require NFC card authentication before using the charger, switch the setting to "on".

### Friendly Reminder

- Please ensure that your original NFC card is kept in a safe place. Loss of the card may lead to inconvenience or unauthorized access risks.
- If your Android smartphone supports both NFC card reading and writing, you may copy your NFC card into the phone and use it to access the EV charger as a replacement for the physical card.

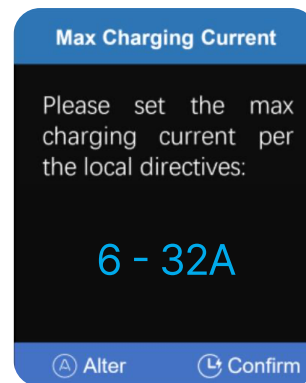
## 4. Setting Up DLB Pairing(Optional):

- **Open menu:** Select "DLB Pairing" to enter the submenu (default = off).
- **Start pairing:** Choose on → press C to confirm → select Home to exit. The charger enters pairing mode (DLB icon flashes; timeout ≈ 2 min).
- **Disable / clear list:** Choose off → press C to confirm. This clears the charger's pairing list and returns to non-DLB mode. select Home to exit.

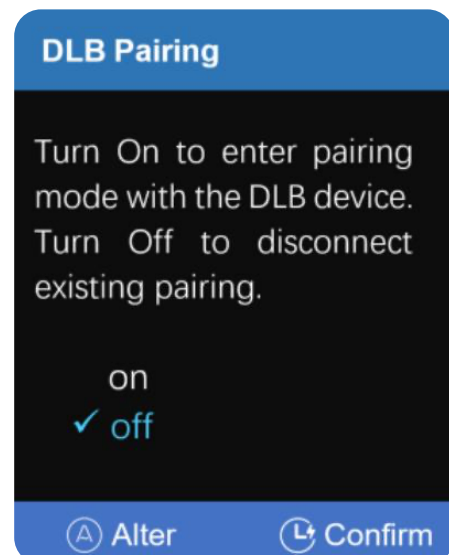
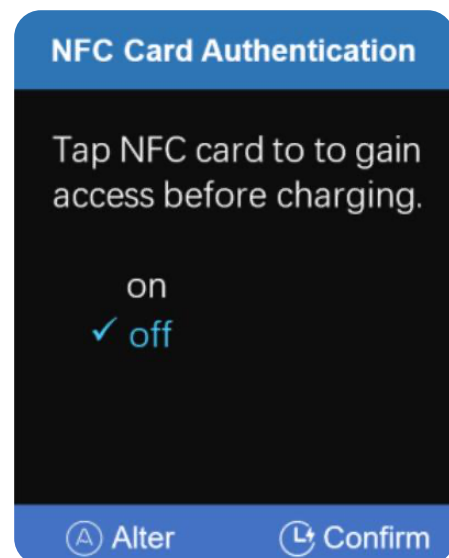
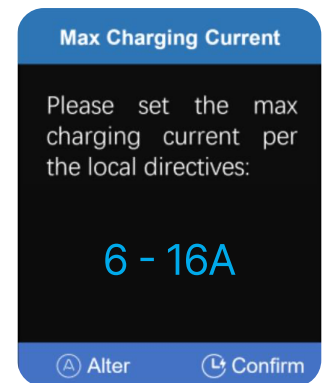
### Reminder

- Please refer to the manual of the DLB controller for more detail. Make sure the wallbox has the DLB antenna installed and the charger is not charging. Entering pairing clears any existing links; setting **DLB Pairing = Off** also clears the list and returns the charger to non-DLB mode.

22 kW:

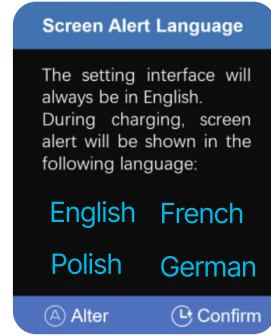


11 kW:



## 5. Setting Screen Alarm Language:

- Select 'Screen Alarm Language' and enter the submenu as shown on the right. Use A key to Alter the choice, and C key to Confirm.



### Friendly Reminder

- This setting will only change the language of the screen alarm during charging, while the system settings interface will always remain in English.

# Detailed charging guide

## A. Simple charging

### 1. Powering Up:

- Plug the charger into the power socket. The charger will automatically conduct a self-testing to ensure it's in perfect working order.

### 2. Setting the Charging Current:

- Use the A key to select the charging current. Choose any value between 6A and 32A (for 22kW) / between 6A and 16A (for 11kW), based on your local regulations and EV's specifications. The LED indicator glows white during this process.

**Note:** Your range of choices for the A key is limited to the max charging current you've set. If you need to adjust this for more efficient and safe charging, refer to the guide on page 7.

**Friendly Reminder:** Your charger will remember the last current setting you used. Next time you power it up, it will automatically apply this setting for your convenience.

### 3. Connecting the Charger to Your EV:

- Securely insert the EV plug into your EV's charging port. The LED status light will turn green, and the grounding and EV icons on the display will also light up green, confirming a successful connection. Charging will now begin!

### Attention:

- To ensure your settings remain secure, the A key is disabled once charging begins. For adjustments, you can perform a traditional off-line adjustment: disconnect the EV connector, set new current using the A key, and then reconnect.

### Tuya Adjustment:

- Our unique online feature streamlines setting adjustments. Even with your EV connected, just press and hold the A key for 3 seconds to enter online adjusting mode.
- Then the flashing current value can be changed by short presses of the A key, and if untouched for 5 seconds, the new setting is automatically activated.

### Note:

- Once connected, only long press of the A or C keys is available, but short press and simultaneous press are disabled to avoid any accidental interference with the charging process.
- Hold the A key for 3 seconds to enter Online Adjustment Mode



## B. Scheduled charging

### 1. Powering Up:

- Plug the charger into the power socket. It will automatically conduct a safety check to ensure it's in perfect working order. Charging will end when car battery will be full.

### 2. Setting the Timer with the C key:

- Schedule your night-time charging by setting the timer using the C key. Each press adds 30 minutes, up to 08:00, before resetting to zero.

#### Note:

- The C key sets a delay for charging to start. For example, a 02:30 setting means charging will begin in 2 hours and 30 minutes, not at 2:30 AM.

### 3. Connecting the Charger to Your EV:

- Once you plug the EV plug into your EV, the car icon on the screen turns green, the LED status indicator changes to blue, and the charger will start charging automatically after the set delay.

#### Important:

- Please consult your EV's manual to verify if it accepts scheduled charging from the charger. Avoid using this feature with the EV models that can't be awakened by scheduled settings.

#### Important:

- Please use either the EV's scheduling feature in its app or the charger's scheduling setting, but not both, to avoid any potential misalignment and charging failure.

## Scheduling Your Charging on Control Box

#### Attention:

- To prevent accidental changes, the C key becomes inactive once the EV connector is plugged in. To change your settings, you can conduct a traditional off-line adjustment: unplug from EV to adjust and re-plug the EV.

#### Online Adjustment:

- Alternatively, hold the C key for 3 seconds to enter the online scheduling mode directly. When the timer setting flashes, adjust it by short presses of the C key. Without any action for 5 seconds, the flashing stops and the change takes effect.

#### Friendly Reminder:

- With the online adjustment feature, you can not only change the scheduled charging time but also adjust to 00:00 to switch to immediate charging.
- Hold the C key for 3 seconds to enter Online Adjustment Mode



# Alert-Pop and Protection Demo

## 1. Leakage Protection

If a leak is detected between the EV connector and your vehicle, the charger's Type B RCD (Residual Current Protection Device) will immediately halt power supply and display an error message on the screen, accompanied by a flashing red LED status indicator.

**Action:** Disconnect the power immediately and consult a professional to identify and fix the leakage source.

**Important:** Keep your charger clean and dry. Never clean with a wet cloth or rinse with liquids.

## 2. Unearthed Socket

If 'Prompt for choice' is selected during initial setup and an unearthed socket is detected upon powering on, a reminder with a red grounding icon will appear, prompting you the options to either continue or cancel charging.

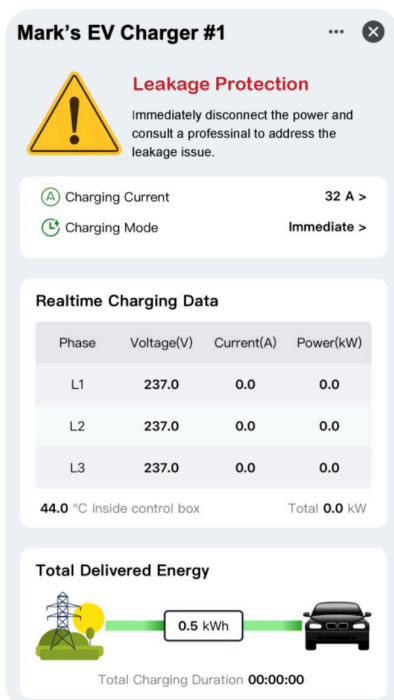
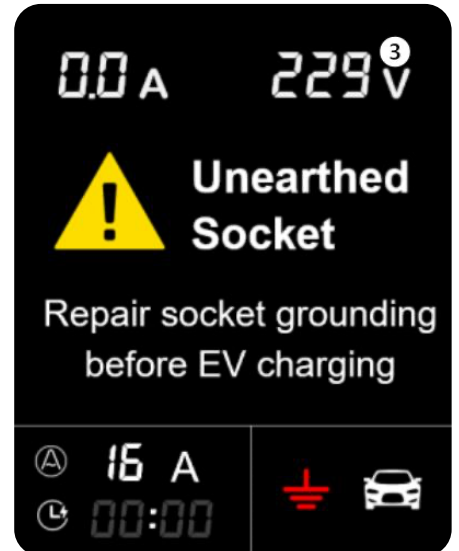
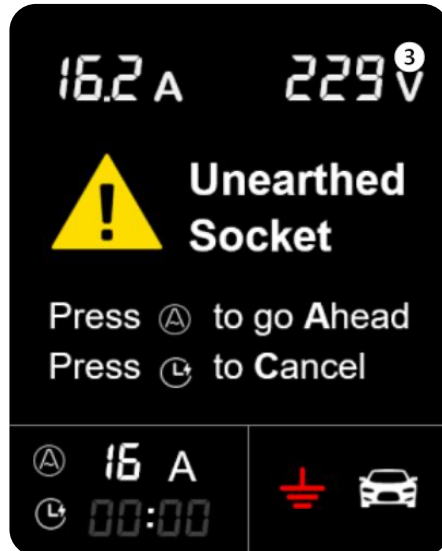
**Action:** To proceed with charging, simply press the A key. If you wish to cancel charging, just press the C key.

If the 'Cancel charging' option is chosen in the initial setup and an unearthed socket is detected after powering on, charging will be automatically stopped, accompanied by a popup as illustrated on the right below.

**Action:** Please have the unearthed socket repaired to ensure proper grounding for safe charging.

### Friendly Reminder:

When the charger detects an unearthed wall socket, its response depends on the settings you chose during initial setup. You can reconfigure these settings by following the instructions on pages 5-6.



## Alerts Display on Tuya App

When a Wi-Fi-enabled charger enters a safety alert/protection state, all alert information is displayed simultaneously on the control box screen and the Tuya app home screen, as shown in the right pictures. To keep the manual concise, the following sections will only include illustrations of alerts as they appear on the control box screen, excluding images of the Tuya app interface.

## Alert Notification on Your Phone

Please refer to page 18 for the setup steps.

# Alert-Pop and Protection Demo

## 3. Control Box Overheat Protection

If the control box's internal temperature exceeds the preset safety limits(80°C), a 'Control Box Overheat' warning will appear on the screen.

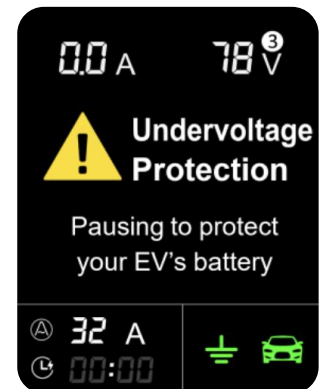
**Action:** The charger will pause charging and automatically switch to a lower current mode once it cools down.



## 4. Undervoltage Protection

If the grid voltage drops too low(<80V), potentially damaging the charger and EV battery, the charger will cut off the power supply.

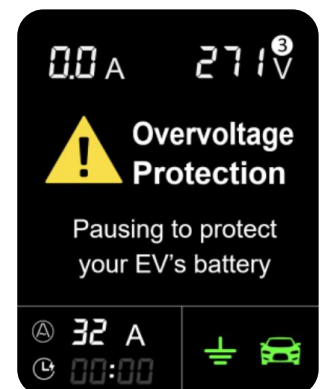
**Action:** No action needed from you. Charging will resume when the voltage increases to a safe level.



## 5. Overvoltage Protection

Should the grid voltage become too high (>270V), posing a risk to both the charger and your EV's battery, the charger will automatically stop supplying power.

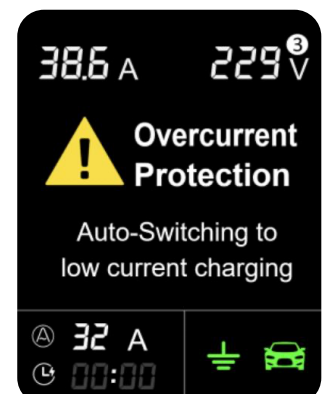
**Action:** No action needed from you. Charging will automatically resume once the voltage returns to normal.



## 6. Overcurrent Protection

If the charging current exceeds the set value by more than 20% or 2A (whichever is greater) due to interactions between the power grid, EV, and charger, the charger will issue an overcurrent warning and reduce the PWM signal to prompt the EV to lower its charging current within 1 minute.

**Action:** Charging will resume automatically at a reduced current within 1 minute. If overcurrent protection is triggered twice during a single session, charging will stop to prevent potential damage to the EV battery.



## 7. EV Diode Not Detected

If the charger does not detect a diode on the EV side, an error message will be displayed.

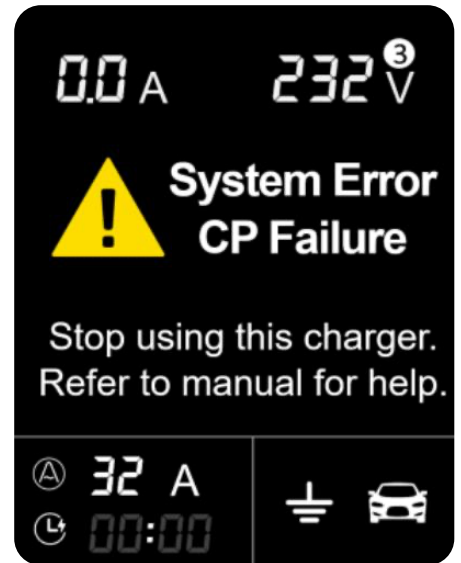
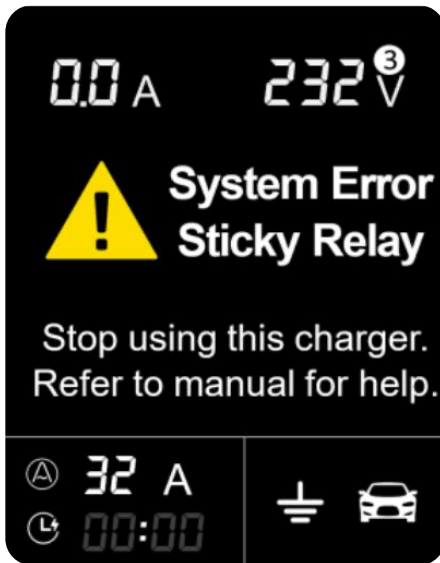
**Action:** Please check if the diode is correctly installed in your EV. If the diode is damaged, it should be repaired by a professional.



## System Error

If 'System Error' appears on the screen with an accompanying fault message as follows, it indicates a critical technical issue with the charger. 9 - Sticky Relay / 10 - RCD Failure / 11 - CP Failure

**Action:** Stop using the charger and contact your dealer or service agent for further assistance. It is strongly advised to have it inspected or remedied by qualified professionals



## Using the Tuya App

Welcome to the Tuya Smart App for easy remote control and monitoring of your charger! Once your charger is powered on and connected to your EV's charging port, it will start charging automatically.

*! Tuya Smart is a safe and reliable mobile app developed and operated by Tuya Inc, a global leader in IoT platform solutions. Compatible with iOS, Android, and most other platforms, it's easy to install and ready for you to use with confidence.*

### Step 1: Install the App on Your Mobile phone

Open your phone's app store, search for "Tuya Smart" or "Smart Life", tap "Get" to install, and then open the app, create a new account and verify your mobile phone number.

## Step 2: Connect the EV Charger to Power

Plug the charger into a power source, but DO NOT turn on the green button 12. Once the control box completes its self-check, the Wi-Fi icon at the top center of the screen will blink blue, indicating that the charger has automatically entered pairing mode.

Alternatively, you can press and hold the 'A' key for 5 seconds to activate pairing mode. This will disconnect any previous pairings if the charger has already been paired with a phone.



Devices to be added: 1



EV Charger

Add

## Step 3: Pair Your Mobile phone with the EV Charger

Keep your phone's Bluetooth on, launch Tuya Smart and bring your phone close to the EV charger. The main screen of the Tuya app will detect the charger as a device ready for connection. Alternatively, tap the "+" icon in the upper right corner, select "Add Device," and the app will automatically scan for nearby chargers. Tap "Add" and proceed with pairing.

## Step 4: Enter Wi-Fi Information

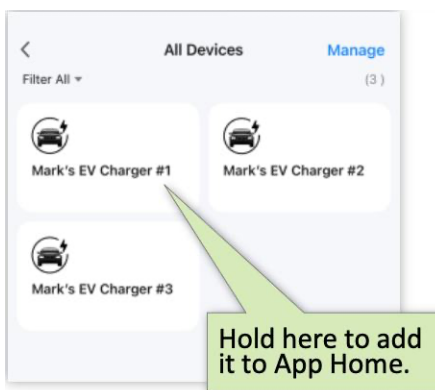
Choose your Wi-Fi name (SSID) and enter password.

**Important:** To ensure the app runs smoothly without any lags, your EV charger should be connected to a strong and stable Wi-Fi signal. Please set your Wi-Fi SSID to support 2.4GHz, as this is required for the Tuya Wi-Fi module. It's recommended to enable both 2.4GHz and 5GHz for optimal performance. Configuring only 5GHz without 2.4GHz will result in Wi-Fi setup failure.



## Step 5: Complete the Pairing Process

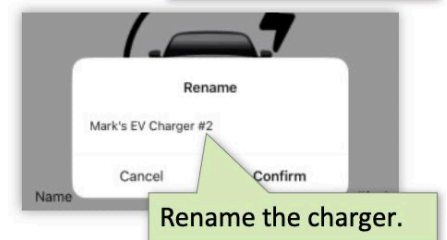
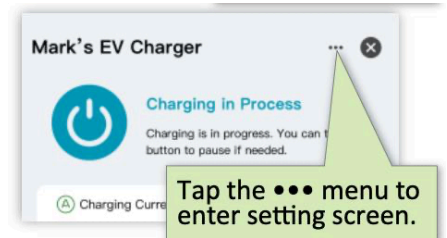
Follow additional prompts to complete the connection. Once done, the charger icon will appear on the app's home screen, as shown on the right.



## Step 6: Edit the Charger's Name

Launch the charger in Tuya Smart app by tapping the charger icon. In the top-right corner of the screen, tap the "..." menu, then select the charger name to enter edit mode. You can then assign a custom name to your charger.

In the Tuya app, multiple chargers can be added, it is recommended to rename each one sequentially. Rename the charger as #1, #2, and so on. Each charger is paired and controlled independently under its corresponding icon, and no cross-control is possible.



## Friendly Reminder:

- A single EV charger can be paired to only one mobile phone as the host. The host has access to system settings and can share the app with family members as secondary users who can monitor and control the charger in the same way. You can remove the charger from the app on one mobile phone at any time and reinstall it on another phone as the host. Alternatively, you can press the A key on the control box for 3 seconds (without connecting the charge to the EV) to decouple the charger from your phone and re-enter pairing mode.

# Using Tuya App — Interface

The screenshot shows the Tuya app interface for 'Mark's EV Charger #1'. The interface includes a status bar at the top with a power button icon and the text 'Charging in Process'. Below this are two remote keys: 'Charging Current' (32 A) and 'Charging Mode' (Immediate). A 'Realtime Charging Data' table shows three phases (L1, L2, L3) with their respective voltage, current, and power. Below the table, the internal temperature is 42.0 °C and the total charging power is 22.3 kW. A 'Total Delivered Energy' section shows 32.6 kWh and a total charging duration of 01:28:39. The bottom navigation bar has icons for Home, Health, Statistics, and Settings.

**System Menu** (Three dots icon)

**Status and Suggestion** (Charging in Process status)

**Button Switch** (Power button icon)

**Remote A Key** (Charging Current 32 A)

**Remote C Key** (Charging Mode Immediate)

**Set Charging Current** (32 A)

**Set Charging Mode:**

- Immediate
- Delayed
- Scheduled

**Realtime Charging Data of 3-Phase Power**

Phase	Voltage(V)	Current(A)	Power(kW)
L1	232.1	31.8	7.4
L2	232.1	32.0	7.4
L3	232.1	32.2	7.5

**Internal Temp. of Control Box** (42.0 °C inside control box)

**Total Charging Power** (Total 22.3 kW)

**Total Charged Energy** (32.6 kWh)

**Total Charging Time** (Total Charging Duration 01:28:39)

Icon	Status Bar	Color
	Off-Line Waiting for Connection with EV	Grey
	Waiting for Delayed Charging Waiting for Scheduled Charging Paused	Blue
	Ready to Charge Charging in Process Charging Complete	Blue

Icon	Status Bar	Color
	Leakage Protection Unearthed Socket Wall Socket Overheat Protection Control Box Overheat Protection Under/Overvoltage Protection Overcurrent Protection	Red
	System Error - Sticky Relay Leakage Protection Error System Error - CP Failure	Red

# Using Tuya App — Control and Monitor Charging

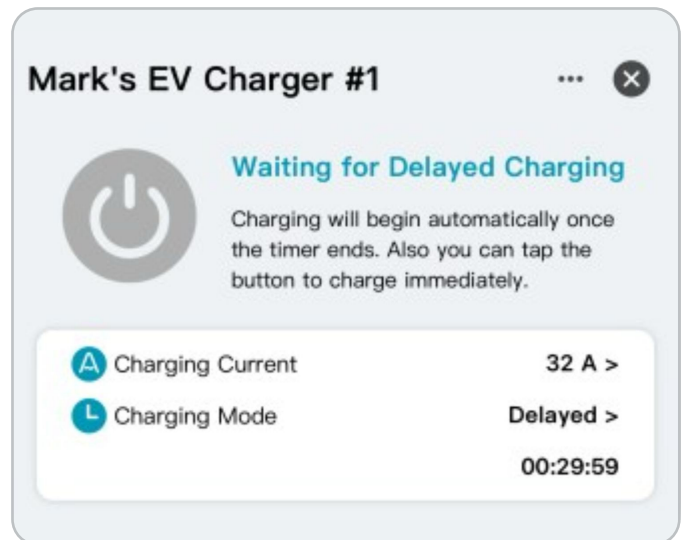
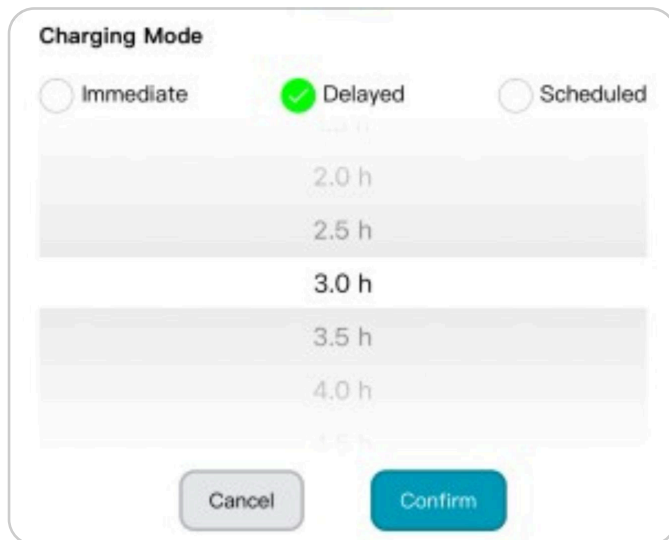
Welcome to the Tuya Smart App for easy remote control and monitoring of your charger! Once your charger is powered on and connected to your EV's charging port, it will start charging automatically. You can also easily set up a Delayed or Scheduled charging session.

## 1. Charging Mode:

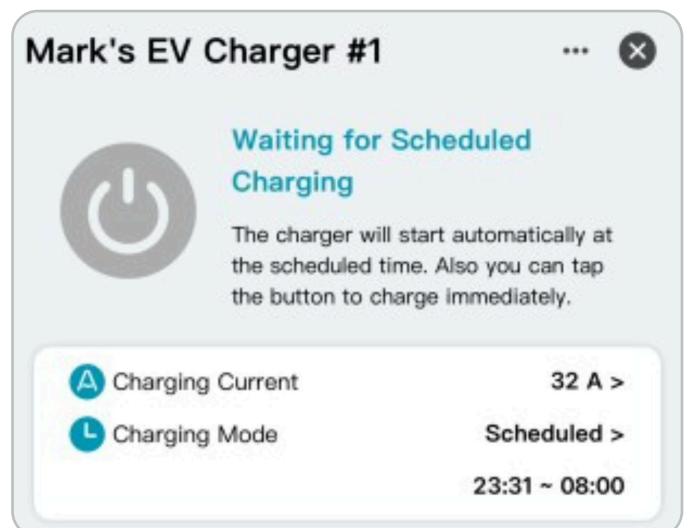
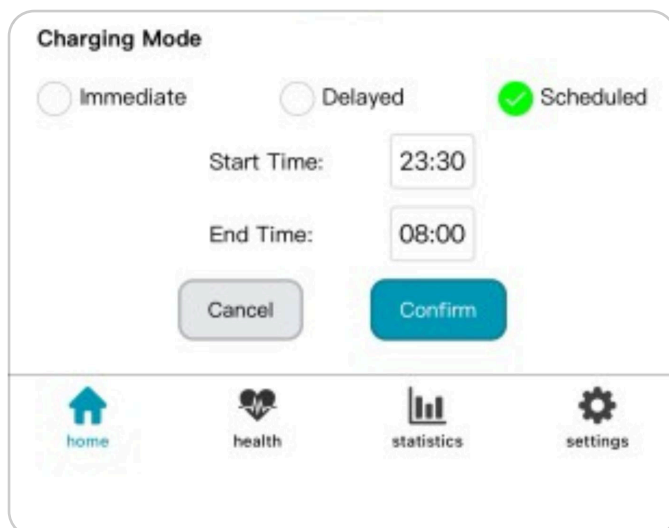
The Charging Mode icon acts like the C key on the control box, allowing you to manage your charger from your mobile phone. You can choose from one of the following 3 modes:

**Immediate:** Charging starts right away as soon as you connect the charger to your EV—no delay.

**Delayed:** This mode functions similarly to the timer on the control box. Once a new delay is set, the app and control box will sync and begin the countdown immediately.



**Scheduled:** Set charging times based on off-peak electricity rates. Once you hit "Confirm," the app will sync the difference between the scheduled start time and the current time with the control box. For example, if the scheduled start time is 23:00 and the current time is 20:42, the app will send a 2 hour and 18 minute delay to the control box.



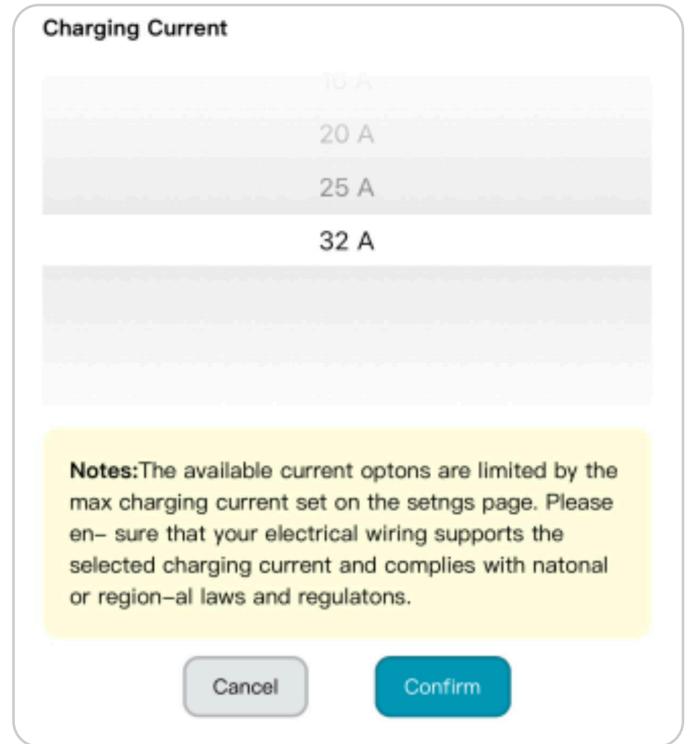
**Note:** Also, you can set up time-based automations in the Tuya app to apply different charging currents at different times, making the most of

## 2. Charging Current:

You can adjust the charging current directly from the app, just like using the A key on the control box. Even if the charger is already in use, changes to the charging current will take effect immediately.

**Note:** Your range of choices for the A key is limited to the max charging current you've set. If you need to adjust this for more efficient and safe charging, refer to the guide on page 7. Also, you can adjust it easily in "Settings" of the Tuya app.

**Important:** It is **EXTREMELY IMPORTANT** to set the max charging current of your charger in accordance with local regulations and the specifications of your power supply circuit. This ensures that your charging process is safe and reliable.



## 3. Button Switch:

To exit the Delayed/Scheduled waiting state, tap the button to switch the charger to Immediate charging mode. The button will turn blue to indicate the change. To pause charging, simply tap the blue button again. The status will display as "Paused", and the button will turn grey. Tap the grey button to resume charging.

### Share App with Your family

To share the app with your family, tap the "... " menu, select "Share Device", and follow the instructions. You can also add a shortcut to your phone's home screen for easier access.

### Receive Safety Alert Notification on Your Phone

**For iPhone:** Settings → Notifications → Tuya → Announce Notifications - On

**For Android:** Settings → Notifications → App Notifications → Tuya - On

After completing the setup, your phone will receive an immediate alert if the charger triggers a safety alarm — even if the Tuya app isn't open.

# Using Tuya App — Time-Based Automation

## What it does?

Set different charging currents at different times to take advantage of night off-peak tariffs.

Example (based on your local time-of-use prices):

- ❶ 22:00 → Start charging at 6 A (slow charge)
- ❷ 00:00 → Switch to 32 A (fast charge)
- ❸ 07:00 → Stop charging

## Set Up the Three Automations

### 1. 22:00 • Turn ON & set to 6 A

1. Open the Tuya app → Scene → Automation.
2. Tap → Create Scene → Schedule.
3. Set Time to 22:00 and Repeat to Every day → Confirm.
4. Under Add Task, tap your Charger.
5. Set Turn ON/OFF → ON.
6. Set Charging Current → 6 A → Confirm.
7. Save, name it: 22:00 - Turn ON & set 6 A.

### 2. 00:00 • Switch to 32 A

- Repeat the steps 2, 3, 4, 6, and 7;
- Set Time to 00:00 and Charging Current to 32 A.
- Name it: 00:00 - Switch to 32 A.

### 3. 07:00 • Turn OFF

- Repeat the steps 2, 3, 4, 5, and 7;
- Set Time to 07:00, set Turn ON/OFF → OFF.
- Name it: 07:00 - Turn OFF.

## Daily Use

1. When you arrive home, plug the charger connector into the EV.
2. In the Tuya app, the charger may enter Immediate Charging. Do not set any manual Delayed or Scheduled charging—your automations will handle timing.
3. Tap the blue Power button to switch to Paused.

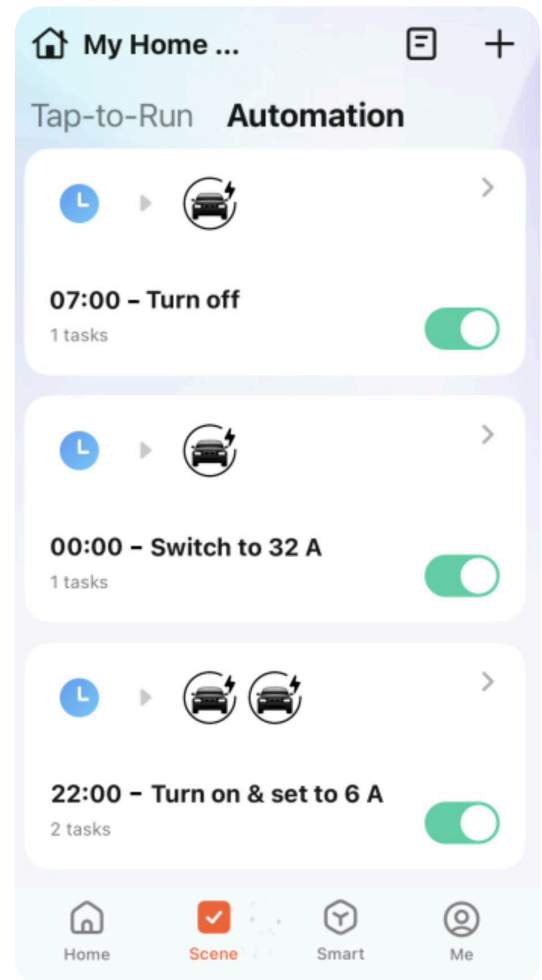
Leave it—your three automations will start at the scheduled times to charge at 6 A at 22:00, switch to 32 A at 00:00, and stop at 07:00, maximizing off-peak rates.

# Using Mobile App to Control and Monitor Charging

## Frequently Asked Questions:

### **Q: Why doesn't the app show the EV battery's charging percentage?**

A: During AC charging, as defined by IEC62752 and IEC61851, the EV and AC charger only exchange basic information about the charging current. The EV doesn't share details like the charging percentage with the AC charger, so it's not possible for the AC charger to display this information. Only DC chargers at charging stations use detailed communication with the EV to access this data. Anyway you can always check the charging percentage through your EV's app.



**Q: If that's the case, why should I use the Tuya app instead of just relying on my EV's app?**

A: Good question! While your EV's app is excellent for monitoring the vehicle itself, it can't control or monitor the AC charger. The Tuya app lets you adjust the charger's current and provides crucial safety and performance alerts. This includes notifications about issues like leakage protection, overcurrent or overvoltage, undervoltage, overheating in the control box or wall socket, grounding problems, relay faults, and leakage protection malfunctions. These are important insights that only the AC charger's system can provide. That's why the Tuya app is a valuable addition to your charging setup.

**Q: Why is the Tuya app sometimes unresponsive, laggy, or sluggish when I press buttons?**

A: This issue is typically caused by a weak or unstable network connection on your mobile phone or charger. If your phone relies on a weak mobile data connection instead of broadband Wi-Fi, delays or unresponsiveness may occur. To improve performance, move to an area with stronger signal coverage or connect to Wi-Fi. Additionally, position the charger closer to your router and ensure the signal strength is between 0 and -60 dBm. Signal strengths below -70 dBm for either your phone or charger may cause noticeable lag or app malfunctions. To check the Wi-Fi signal strength of the charger, you can

- 1. Observe the Wi-Fi icon at the top of the control box screen.**
- 2. Open the app and tap the "..."** menu.
- 3. Select "Device Network" and check "Signal Strength."**

If the signal is weak, move the router closer to the charger.

**Q: How do I add a new Wi-Fi when visiting a new location?**

A: Connect your phone to the new Wi-Fi. Hold the 'A' key on the control box for 5 seconds to clear the previous Wi-Fi settings and enter pairing mode. Then, open the Tuya App and follow steps 2 to 5 on pages 14–15 to reconnect the charger to your phone via the new Wi-Fi.

## WARRANTY AGREEMENT

1. The warranty coverage refers to the product itself.
2. The warranty period is 24 months. During the warranty period, the distributor will repair or replace the product free of charge in the event of failure or damage during normal use.
3. The start date of the warranty period is the date of sale.
4. In the following situations, the distributor has the right to charge additional costs or refuse to provide services under the warranty.
  - a. Equipment failure caused by failure to follow the operating instructions.
  - b. Equipment damage caused by fire, flood, abnormal voltage, etc.
  - c. Equipment damage caused by using the product for unusual applications.
  - d. Damage to the equipment caused by foreign objects entering the charging station (e.g. construction dust, water).
  - e. Equipment damage caused by other man-made external factors.
5. The warranty is only valid on the basis of a sales document.

### DECLARATION OF CONFORMITY

We declare that the design of the device described below complies with the standards. Relevant EC Directives: RED Directive 2014/53/EU. IEC 61851-21-2, EN 301489-1/-17, EN 300328, EN 300330, EN 61000-3-11/-12.

### COMPLIANCE STATEMENT

Do not dispose of in electrical and electronic waste. Comply with local disposal regulations.



# Installation

**Important: Installation must be carried out by a qualified electrician in accordance with local regulations.**

## 1. General information

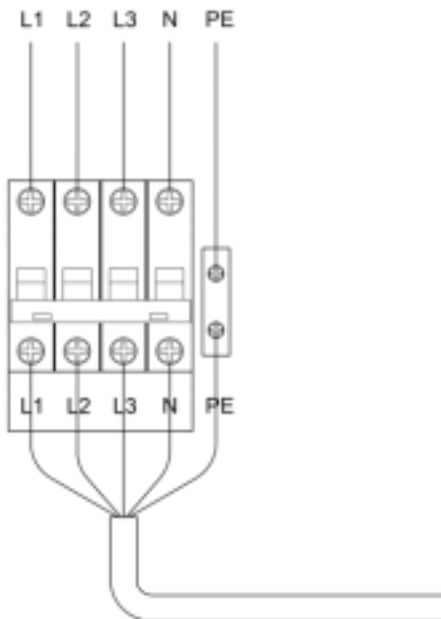
### Upstream Protection

For safety, provide upstream protection in accordance with applicable local installation regulations (e.g., IEC 60364-7-722). Install a certified Type A RCD ( $I_{\Delta n} = 30 \text{ mA}$ ) and a suitably rated circuit breaker on a dedicated supply circuit for the charger.

- RCD: Type A 30 mA
- Breaker: 20 A (for rated current 16 A) / 40 A (for rated current 32 A)
- If the residual current device (RCD) trips, switch OFF the upstream supply breaker first, identify and remove the cause of the fault, wait at least 10 seconds for internal capacitors to discharge, then switch ON the upstream breaker to re-energize the charger. The charger will reboot automatically.
- Do not bypass the RCD or force it to stay ON. If the RCD trips repeatedly, stop using the charger and contact a qualified electrician.

### Wiring

- Use copper conductors only with insulation temperature rating  $\geq 90^\circ\text{C}$ . Select cross-sectional area according to the rated current and local wiring rules.
- Three-phase: connect L1, L2, L3, N from Inlet to the protective devices, then from Outlet to the charger.
- Connect PE (protective earth) directly to the building earth/ground (earth bar / PE terminal). Do not route PE through the breaker or RCD.
- Tighten all terminals securely and verify correct wiring before energizing.

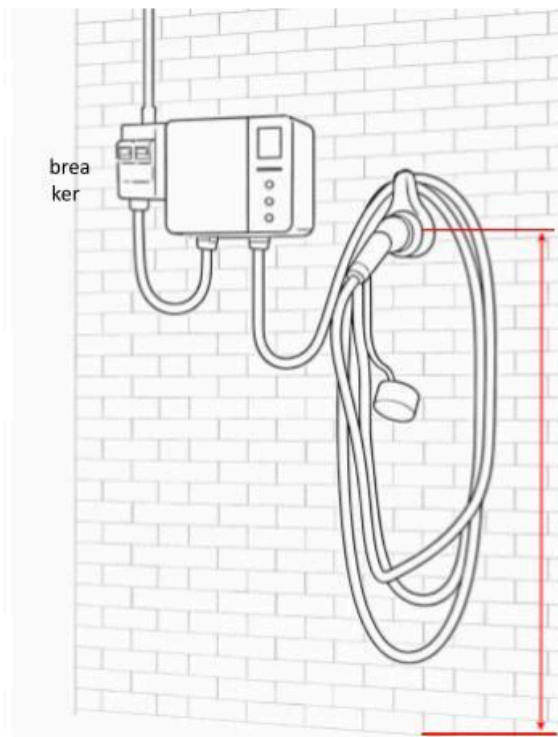


# Installation

## 2. Where to install?

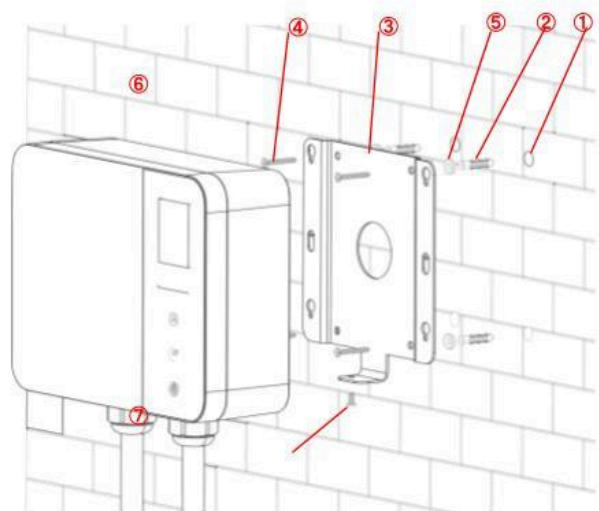
Please follow the steps on the next page to install the wall box and the plug/cable holder according to the dimensioned diagram below.

- Wall box mounting height: 1.2– 1.5 m
- Connector/Cable holder mounting height: 0.5– 1.5 m



## 3. Installation onto Wall

1. Select the mounting height, then mark and drill four mounting holes ① in the wall (refer to the dimensioned diagram).
2. Tap the four plastic wall inserts ② fully into the holes.
3. Position the metal mounting (hanging) plate ③ on the wall, aligning the holes.
4. Use a driver to install the four screws ④ and secure the mounting plate to the wall.
5. If the wall surface is uneven and the mounting plate bends or the wall box cannot be installed smoothly, place the four spacers ⑤ behind the mounting plate (between the plate and the wall) to keep the plate level.
6. Hang the wall box ⑥ onto the mounting plate. Make sure the hanging mechanism is fully engaged and seated correctly.
7. Install the locking screw ⑦ from the bottom to secure the wall box to the mounting plate.
8. Install the connector/cable holder on the wall according to the diagram on the last page.



# Installation

## 4. Installation on Standing Metal Pole

1. Mount the metal plate onto the standing pole by screws.
2. Feed the power cable through the pre-cut hole on the front panel and connect it to the upstream power supply.
3. Ensure that a certified Type-A 30 mA RCD and certified circuit breakers are installed upstream.
4. Hang the wall box onto the mounting plate. Make sure the hanging mechanism is fully engaged and seated correctly.
5. Install the screw from the bottom to secure the wall box to the mounting plate.

