

Astral 7 INCH TOUCH SCREEN

Astral-EV-R9

3 colors Available



EV Charging Station Manual

It is recommended to read the
instructions before use

CATALOG

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Safety instructions

-  **Warning :** The charging station must be grounded (PE) in order to use it properly
-  **Warning :** Do not place flammable, explosive or combustible materials, chemicals, combustible vapors or other hazardous materials near the charging station.
-  **Warning :** Keep the charging plug head clean and dry, if dirty, please wipe it with a clean and dry cloth, it is strictly forbidden to touch the charging plug core by hand when it is charged
-  **Warning:** It is strictly forbidden to use the charging station when the charging plug or charging cable is defective, cracked, worn, broken or when the charging cable is exposed
-  **Warning :** Do not attempt to disassemble, repair or modify the charging station. If you need to repair or modify it, please contact the relevant staff. improper operation may cause the charging station damage, water leakage, leakage of elec circuit, electric shock and other risks
-  **Warning :** Use with caution during thunderstorms
-  **Warning :** Children should not approach or use the charging station during the charging process to avoid electric shock
-  **Warning :** Do not drive the car while it is charging. You can only start charging When the car is stationary. For hybrid Cars, please turn off the engine before charging
-  **Warning :** In case of emergency during the operation of the product, press the emergency stop button immediately to cut off all input and output power
-  **Warning :** The use of the charging station is prohibited in the following cases and the manufacturer should be contacted immediately:
 - * Bad charging station shell
 - * When the charging cable on the charging station is damaged, cracked, frayed, broken, etc.
 - * Lightning strikes charging station
 - * Accidents or fires near charging stations
 - * Water in the charging station
 - * The length of the charging cable on charging station is not long enough to connect to the car, an extension cable needs to be installed

Product Overview

Brief description :

This product is used for electric vehicle AC charging, the product design is highly simple, divided into Type2,Type1,GB/T, TS-NACS,four kinds of specifications.It is equipped with swipe card and plug-and-play charging methods and multiple safety protection functions. with good dustproof and waterproof function, can be operated safely in outdoor.



Type 2 Parameter Introduction

Type 2 IEC 62196-2			
Power Rating	7.6kW	11kW	22kW
PV DLB	●	●	●
Load Balancing	●	●	●
App	●	●	●
RFID Card	●	●	●
Exclusive RFID	●	●	●
Leakage Protection Value	TypeB: AC 30mA+DC 6mA		
Power Supply System	Single Phase	Three Phase	Three Phase
Rated Voltage	85V-264V	380V±20%	380V±20%
Rated Current	6A-32A	6A-16A	6A-32A
Input Frequency	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz
Charger Plug	IP66	IP66	IP66
Charger Box	IP65	IP65	IP65
Working Temperature	-35°C ~ +55°C	-35°C ~ +55°C	-35°C ~ +55°C
Storage Temperature	-40°C ~ +80°C	-40°C ~ +80°C	-40°C ~ +80°C
Standby Power	<3W	<3W	<3W
Working humidity	5% ~ 95% non-condensation	5% ~ 95% non-condensation	5% ~ 95% non-condensation
Cable Specification	3G 6mm ² +2*0.5mm ²	5G 2.5mm ² +2*0.5mm ²	5G 6mm ² +2*0.5mm ²

Control box function:

1. Leakage protection (restart recovery)
2. Overvoltage and undervoltage protection (self-test recovery)
3. Lightning protection
4. Overcurrent protection
5. Overheat protection
6. Grounding protection
7. RFID card function (can be set according to user needs)
8. Appointment Time
9. WIFI
10. Set energy charging

Product Performance:

1. Charging plug according to IEC 62196-2 standard
2. Charging control box in accordance with IEC61851 control principle
3. Insulation resistance: >1000Ω
4. Terminal temperature rise: <50K
5. Mechanical life: Charging Plug plugging and unplugging times (Non operating state) >10000 times
6. External impact: Charging Station Plug can withstand the 1-meter drop and 2 tons of vehicle crushing
7. Altitude: ≤2000m
8. With emergency stop function

Type 1 Parameter Introduction

Type 1 SAE J1772			
Power Rating	7.6kW	9.6kW	12kW
PV DLB	●	●	●
Load Balancing	●	●	●
App	●	●	●
RFID Card	●	●	●
Exclusive RFID	●	●	●
Leakage Protection Value	TypeB: AC 30mA+DC 6mA		
Power Supply System	Level 1 and Level 2	Level 1 and Level 2	Level 1 and Level 2
Rated Voltage	85V-264V	85V-264V	85V-264V
Rated Current	6A-32A	6A-40A	6A-50A
Input Frequency	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz
Charger Plug	IP66	IP66	IP66
Charger Box	IP65	IP65	IP65
Working Temperature	-35°C ~ +55°C	-35°C ~ +55°C	-35°C ~ +55°C
Storage Temperature	-40°C ~ +80°C	-40°C ~ +80°C	-40°C ~ +80°C
Standby Power	<3W	<3W	<3W
Working humidity	5% ~ 95% non-condensation	5% ~ 95% non-condensation	5% ~ 95% non-condensation
Cable Specification	3G 6mm ² +2*0.5mm ²	3G 8mm ² +2*0.5mm ²	3G 10mm ² +2*0.5mm ²

Control box function:

1. Leakage protection (restart recovery)
2. Overvoltage and undervoltage protection (self-test recovery)
3. Lightning protection
4. Overcurrent protection
5. Overheat protection
6. Grounding protection
7. RFID card function (can be set according to user needs)
8. Appointment Time
9. WIFI
10. Set energy charging

Product Performance:

1. Charging plug according to SAE J1772 standard
2. Charging control box in accordance with IEC61851 control principle
3. Insulation resistance: >1000Ω
4. Terminal temperature rise: <50K
5. Mechanical life: Charging Plug plugging and unplugging times (Non operating state) >10000 times
6. External impact: Charging Station Plug can withstand the 1-meter drop and 2 tons of vehicle crushing
7. Altitude: ≤2000m
8. With emergency stop function

GB/T Parameter Introduction

G B / T			
Power Rating	7.6kW	11kW	22kW
PV DLB	●	●	●
Load Balancing	●	●	●
App	●	●	●
RFID Card	●	●	●
Exclusive RFID	●	●	●
Leakage Protection Value	TypeB: AC 30mA+DC 6mA		
Power Supply System	Single Phase	Three Phase	Three Phase
Rated Voltage	85V-264V	380V±20%	380V±20%
Rated Current	6A-32A	6A-16A	6A-32A
Input Frequency	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz
Charger Plug	IP66	IP66	IP66
Charger Box	IP65	IP65	IP65
Working Temperature	-35°C ~ +55°C	-35°C ~ +55°C	-35°C ~ +55°C
Storage Temperature	-40°C ~ +80°C	-40°C ~ +80°C	-40°C ~ +80°C
Standby Power	<3W	<3W	<3W
Working humidity	5% ~ 95% non-condensation	5% ~ 95% non-condensation	5% ~ 95% non-condensation
Cable Specification	3G 6mm ² +2*0.5mm ²	5G 2.5mm ² +2*0.5mm ²	5G 6mm ² +2*0.5mm ²

Control box function:

- 1.L Leakage protection (restart recovery)
- 2.Overvoltage and undervoltage protection(self-test recovery)
- 3.Lightning protection
- 4.Overcurrent protection
- 5.Overheat protection
- 6.Grounding protection
- 7.RFID card function(can be set according to user needs)
- 8.Appointment Time
- 9.WIFI
- 10. Set energy chargingn

Product Performance:

- 1.Charging plug according to GB/T20234 standard
- 2.Charging control box in accordance with IEC61851 control principle
- 3.Insulation resistance:>1000Ω
- 4.Terminal temperature rise:<50K
- 5.Mechanicallife: Charging Plug plugging and unplugging times (Non operating state)>10000 times
- 6.External impact:Charging Station Plug can withstand the 1-meter drop and 2 tons of vehicle crushing
- 7.Altitude:≤2000m
- 8.With emergency stop function



TS-NACS Parameter Introduction

TS-NACS			
Power Rating	7.6kW	9.6kW	12kW
PV DLB	●	●	●
Load Balancing	●	●	●
App	●	●	●
RFID Card	●	●	●
Exclusive RFID	●	●	●
Leakage Protection Value	TypeB: AC 30mA+DC 6mA		
Power Supply System	Level 1 and Level 2	Level 1 and Level 2	Level 1 and Level 2
Rated Voltage	85V-264V	85V-264V	85V-264V
Rated Current	6A-32A	6A-40A	6A-50A
Input Frequency	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz
Charger Plug	IP66	IP66	IP66
Charger Box	IP65	IP65	IP65
Working Temperature	-35°C ~ +55°C	-35°C ~ +55°C	-35°C ~ +55°C
Storage Temperature	-40°C ~ +80°C	-40°C ~ +80°C	-40°C ~ +80°C
Standby Power	<3W	<3W	<3W
Working humidity	5% ~ 95% non-condensation	5% ~ 95% non-condensation	5% ~ 95% non-condensation
Cable Specification	3G 6mm ² +3*0.5mm ²	3G 8mm ² +3*0.5mm ²	3G 10mm ² +3*0.5mm ²

Control box function:

1. Leakage protection (restart recovery)
2. Overvoltage and undervoltage protection (self-test recovery)
3. Lightning protection
4. Overcurrent protection
5. Overheat protection
6. Grounding protection
7. RFID card function (can be set according to user needs)
8. Appointment Time
9. WIFI
10. Set energy charging

Product Performance:

1. Charging plug according to TS-NACS standard
2. Charging control box in accordance with IEC61851 control principle
3. Insulation resistance: >1000Ω
4. Terminal temperature rise: <50K
5. Mechanical life: Charging Plug plugging and unplugging times (Non operating state) >10000 times
6. External impact: Charging Station Plug can withstand the 1-meter drop and 2 tons of vehicle crushing
7. Altitude: ≤2000m
8. With emergency stop function

Operating Instructions

Pre-use Preparation :

1. Ensure that there are no open flames around the equipment and that the surrounding space is not blocked.
2. Ensure that the equipment casing and charging cable are not damaged
3. Ensure proper maintenance of equipment.
4. Make sure the emergency stop button is popped up, if it has been pressed, Please rotate the button clockwise to turn the button back.
5. After the product is launched, you can choose to set a password or skip the settings. The password is set on page 35, with detailed explanations.

Charging steps :

(1) Standby Status

When the charging station in standby mode, the interface shows that the device is ready for charging, as shown in the figure below:

The indicator light on the wallbox is green and always on.



(2) Waiting for start Charging status

After park your car near the charging station, take the charging plug from the plug holder, set the charging current, then insert the charging plug into the connector of the electric vehicle. Please make sure that the plug is inserted in place and the connection is safe and reliable. When the charging plug monitors that the charging plug is inserted correctly, it will enter the status of identity verification, as shown in the following figure:

There are three charging methods:

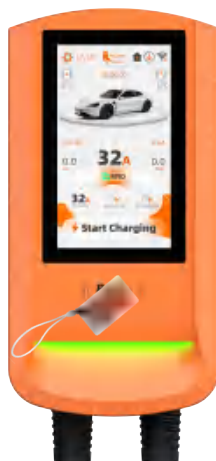
01. Use RFID
02. Plug & Charge
03. Use APP

01. Start charging by RFID

Start-up Device

Use RFID cards to authorize the use of charging station

START



(3) Start Charging

1. The device starts charging and the interface displays the charging status and information parameters as shown in the following figure:

2. The indicator light on the case is green breathing;



(4) Stop Charging

1. When the vehicle is fully charged, the charging station will automatically stop charging; in case of emergency, you can manually press the Emergency stop button to cut off.
2. RFID card can also be used to authorize stopping the use of the charging station during charging;

STOP



3. The display is as follows



4. The indicator light on the case is green flashing or green always on;

02. Plug & Charge

If you don't need to use RFID to start charging, you can turn off the RFID function and plug in the charging head to charge.



Stop charging

When the vehicle is fully charged, the charging station will automatically stop charging; In case of emergency, you can manually press the Emergency stop button to cut off power.

STOP



03. Mobile App

Start charging via the Smart Life or Tuya app.

START

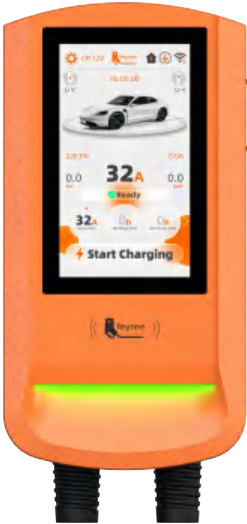


Smart life



tuya smart

Use APP start charging button to authorize the use of charging station.

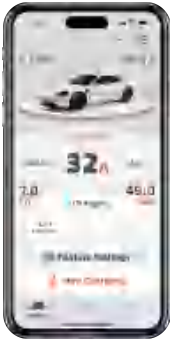


Stop charging

STOP

The display is as follows

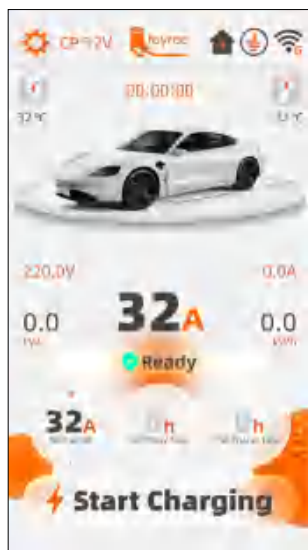
You can use the stop charging function on the app to stop charging.



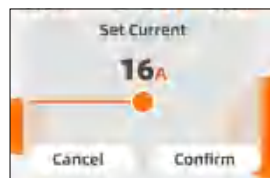
Key Operation Instructions

- Swipe left or right to browse more adjustable function bubbles.
- Tap a function bubble to adjust its corresponding parameter.

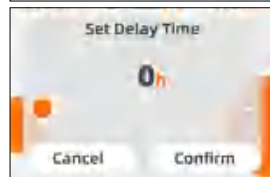
Note: The orange indicator dot on the bubble indicates the function is enabled.



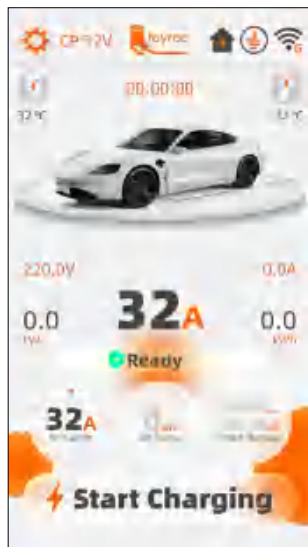
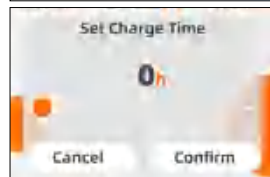
Function Enabled



Function Disabled



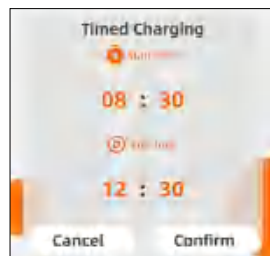
Function Disabled



Function Disabled



Function Disabled

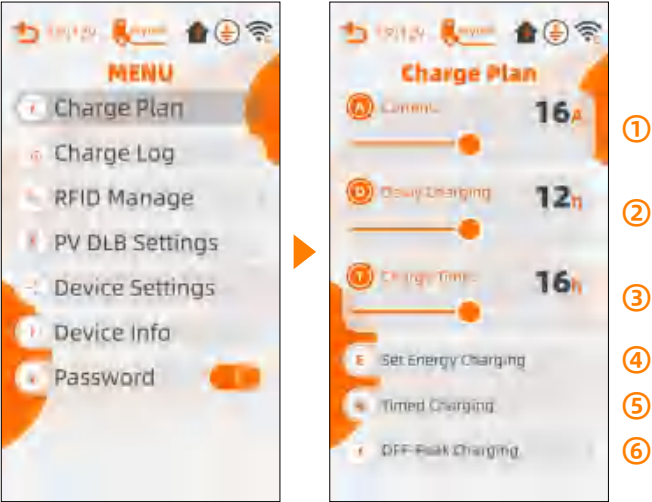


1.Charge Plan

Charge Plan offers multiple adjustable charging parameters, including Set Current, Delay Charging, Charge Time, Set Energy Charging, Timed Charging and Off-Peak Charging. Configure the corresponding options to create your personalized charging scheme.

Important Notes:

- (1).Set Energy Charging cannot be activated simultaneously with Timed Charging.
- (2).Set Energy Charging and Timed Charging cannot be enabled concurrently with Delay Charging or Charge Time.
- (3).Only the latest setting will take effect. All previously activated charging functions will be automatically deactivated once a new setting is confirmed.
- (4).Text shown in orange indicates that the function is enabled.
- (5).Settings will be saved upon clicking the Back button



① Set Current:

When the charging plug is not inserted in the car, touch "Set Current" on the touchscreen to adjust the charging current,the current setting range is determined by the max charging power of the charger.

- 7.6kW:6A...32A adjustable.
- 9.6kW:6A...40A adjustable.
- 11kW:6A...16A adjustable.
- 12kW:6A...50A adjustable.
- 22kW:6A...32A adjustable.

② Set Delay Time:

When the charging plug is not inserted in the car,touch"Set Delay Time"on the touchscreen to set the delayed charging time, and the range can be set from 0 to 24 hours.

③ Set Charge Time:

When the charging plug is not inserted in the car,touch"Set Charge Time"on the touchscreen to set the charge time,and the range can be set from 0 to 24 hours.

④ Set Energy Charging:

The function works under three scenarios:

(1).Only Start Time activated

The charger starts charging at the scheduled time and continues until the battery is fully charged.

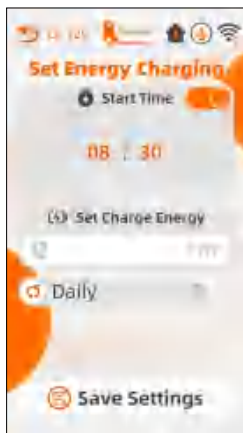
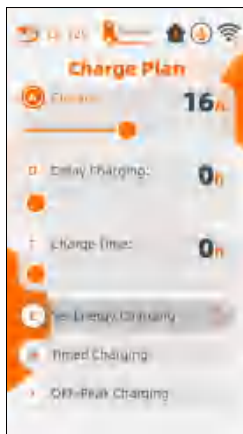
(2).Only Set Charge Energy configured

Charging will stop automatically once the preset energy is reached.

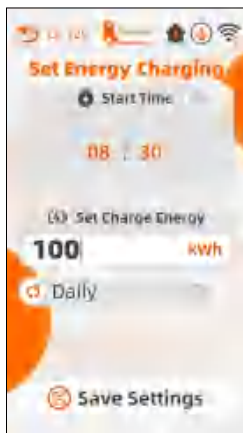
(3).Both Start Time and Set Charge Energy configured

Charging commences at the scheduled time and stops when the preset energy value is achieved.

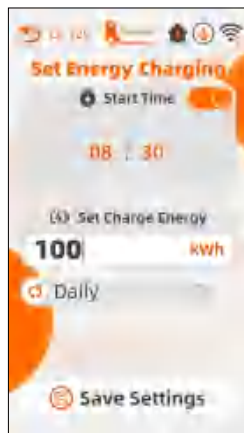
Daily Option: Activate the Daily switch to execute this charging schedule repeatedly every day.



(1)



(2)

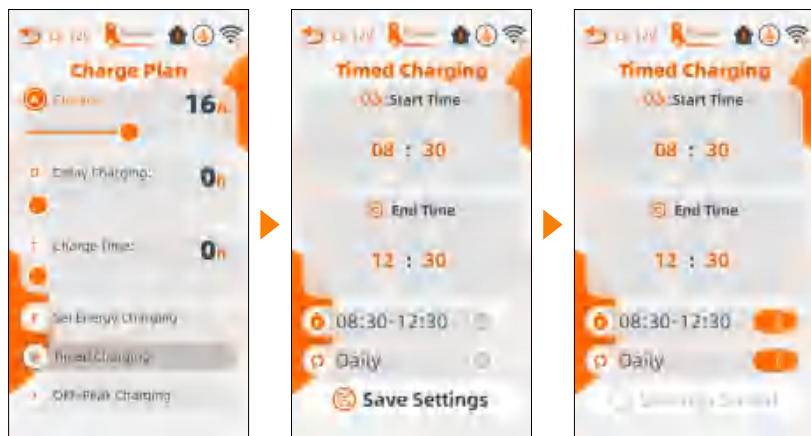


(3)

⑤ Timed Charging

A Start Time and End Time can be configured to specify the period available for charging.

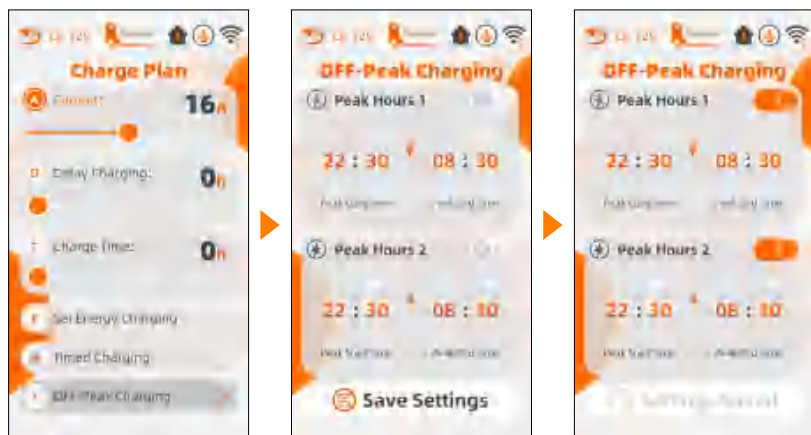
Daily Option: Activate the Daily switch to execute this charging schedule repeatedly every day.



⑥ OFF-Peak Charging

Two no-charging time periods can be configured.

When the function switch is enabled, charging will be prohibited during the set time periods.

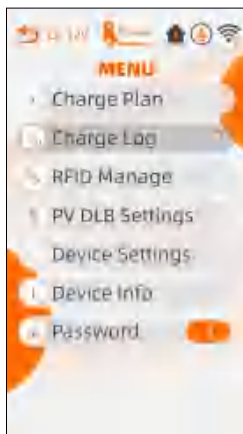


2.Charging Log

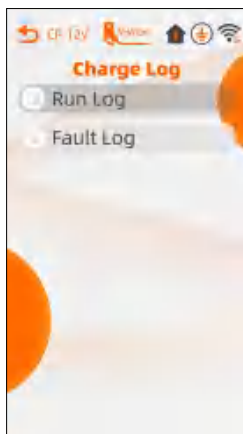
Charge Log Function

(1) **Run Log** : Record the charging logs for the past 12 months.

(2) **Fault Log** : Record every charging fault report.



Run Log



Click To Enter.

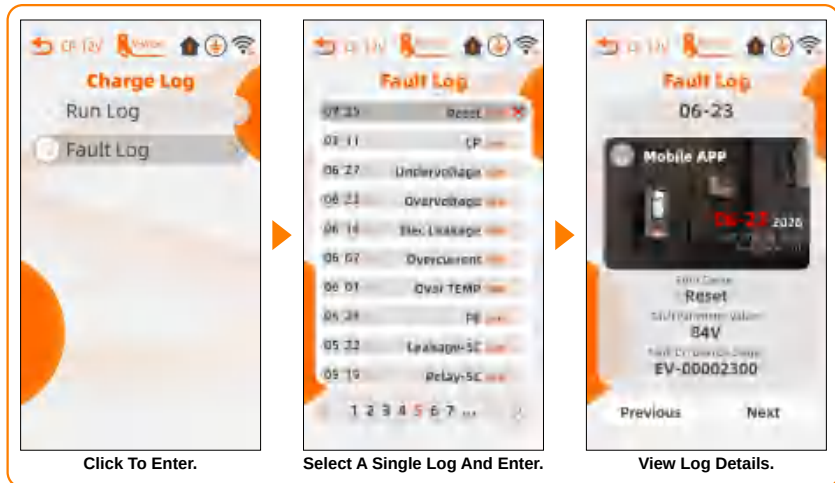


Select A Single Log And Enter.



View Log Details.

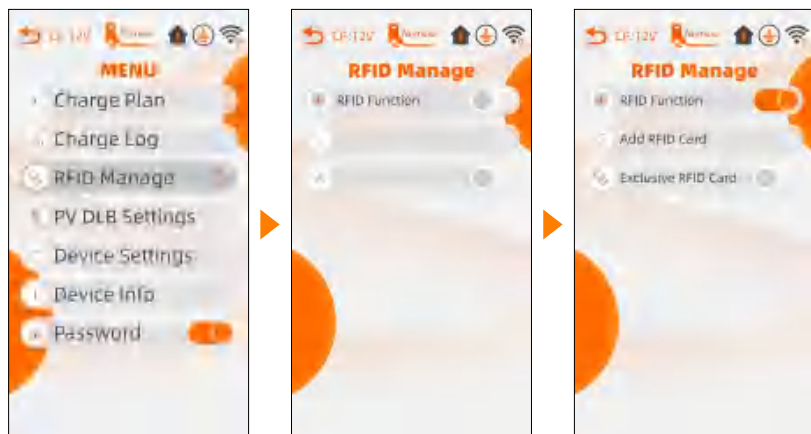
Fault Log



3.RFID Manage

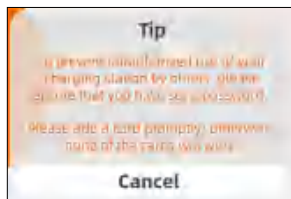
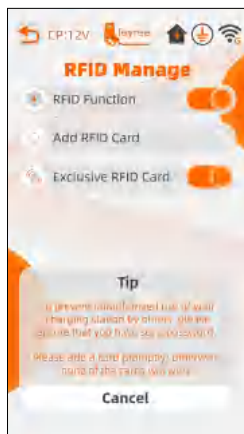
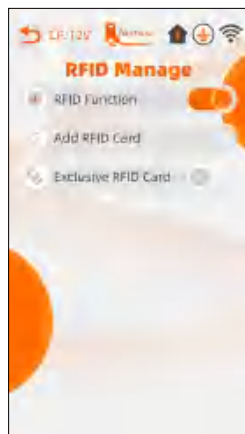
Click to open RFID Manage.

RFID Function is not open, unable to operate Add RFID Card and Exclusive RFID Card.

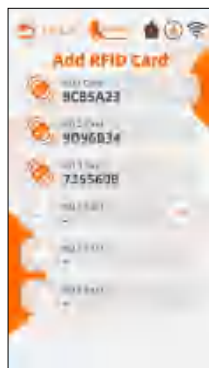


Exclusive RFID Card

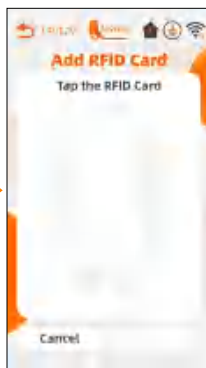
Establish a binding relationship between RFID cards and charging station to realize access control via card swiping. Only bound cards can activate the charging station for charging upon swiping; unbound cards will be rejected. Prevent unauthorized users from access.



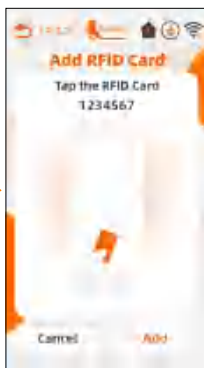
Add RFID Card



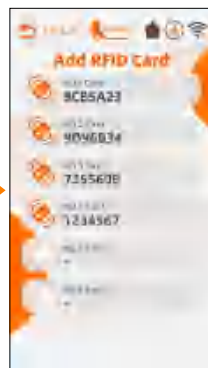
Tap on the add icon next to the blank card



Enter the card recognition page



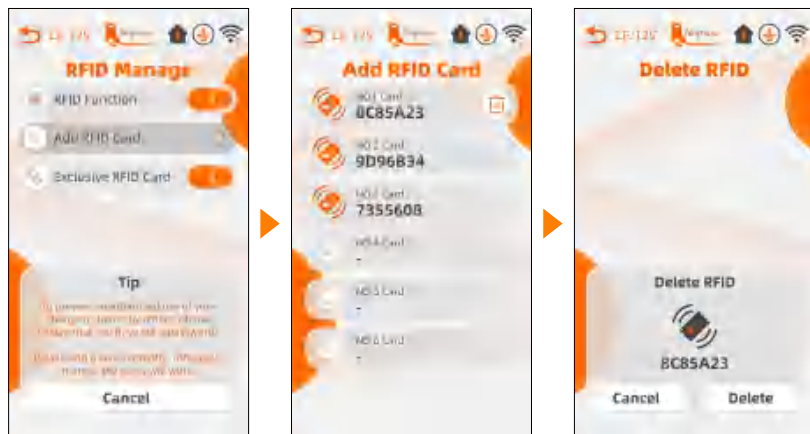
Identify the card, tap on add



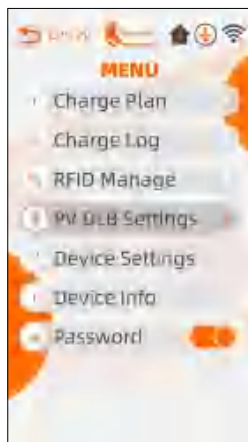
Added successfully

Delete RFID card

Tap on Add RFID Card, enter the Add RFID Card option, click on the delete icon next to the added card, and enter the delete card page.



4.PV DLB Settings



• Grid Total Current:

This parameter sets the maximum current capacity per phase (e.g., 80A) for the home circuit when Grid mode. It is adjustable from 6A to 99A, and any excess of the set value will cause the circuit breaker to trip.

• PV Total Current:

This parameter sets the maximum current capacity per phase (e.g., 80A) for the home circuit when PV mode. It is adjustable from 6A to 99A, and any excess of the set value will cause the circuit breaker to trip.

• CT Grid Load:

Total load of "home appliances + charging station" in the load circuit while Grid mode.

• CT PV Load:

Total load of "home appliances + charging station" in the load circuit while PV mode.

• CT Home Load:

Total current of home appliances, excluding the charging station.

• Charging Current:

The real-time charging current when the charger working.

• Standby Current:

The remaining available current in the current circuit.
PV mode: PV Total Current-CT PV Load
Grid mode: Grid Total Current-CT Grid.

PV DLB EV Charging Station

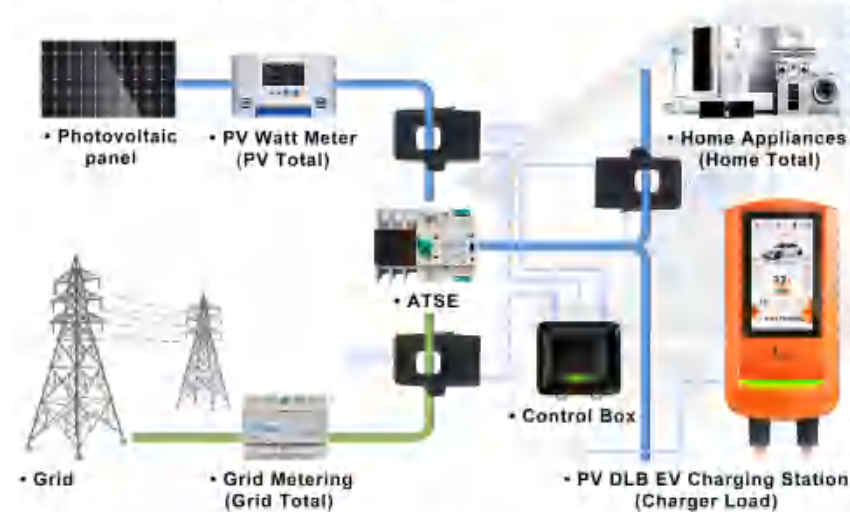
The PV DLB (Dynamic Load Balancing) Charging Station System is specifically designed for off-grid solar power supply scenarios, achieving overload protection through real-time dynamic regulation of the output power of each charging station.

The system integrates an ATS (Automatic Transfer Switch), enabling seamless switching between PV-priority power supply mode and Grid power supply mode.

PV + Grid

Dual-Mode Intelligent Switching

The system implements "PV + Grid" dual-mode intelligent power switching in one integrated solution, balancing both green energy utilization and charging reliability.



Charger Load= PV Total-CT3

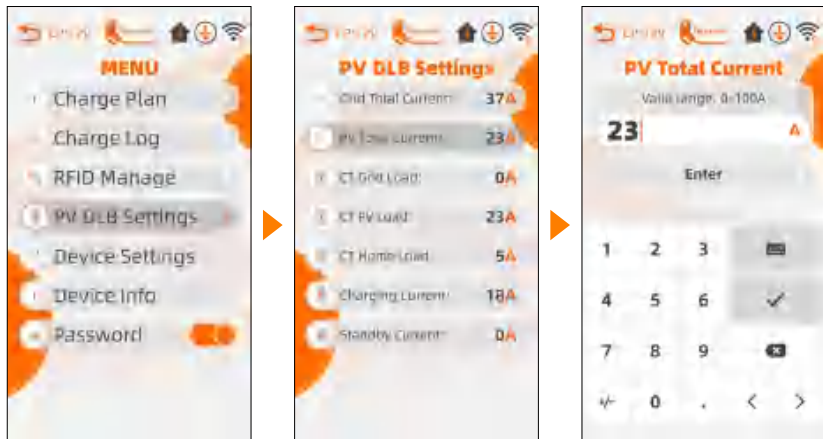
PV Mode: When the photovoltaic system is generating power normally, the system prioritizes solar power supply and dynamically performs load balancing based on the available PV output power.

Charger Load= Grid Total-CT3

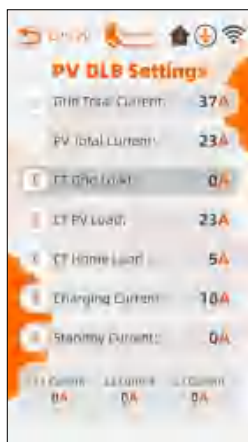
Grid Mode: When the photovoltaic system shuts down or its power supply is insufficient, the ATS automatically switches to grid power supply, and the charging station continues to execute the load balancing strategy according to the grid capacity.

① PV Mode Settings

Using photovoltaic power supply



Single-phase



Three-phase

How to find the Total Current:

Step	Action
1	Check inverter nameplate for "Rated Output Current" — if listed, use it directly.
2	If only "Rated Output Voltage + Rated Output Power" are shown, use the formula below based on your supply type (single-phase or three-phase)

Current Formula:

Supply Type	Formula (Current I = ?)	Example (Assume Inverter Power P = 5000W)
Single-Phase (e.g., 220V in China, 120V in USA)	$I = P \div U$ (U = Rated Output Voltage)	If U = 220V: $5000 \div 220 = 22.7A$ If U = 120V: $5000 \div 120 = 41.7A$
Three-Phase (e.g., 380V in China, 400V in Europe)	$I = P \div U \div 1.732$ (U = Rated Output Voltage)	If U = 380V: $5000 \div 380 \div 1.732 = 7.6A$ If U = 400V: $5000 \div 400 \div 1.732 = 7.2A$



Important Notes:

Voltage is not fixed : The "U" in the formulas above refers to the "Rated Output Voltage" on your inverter nameplate — NOT a standard value. For example, for machines exported to the U.S., use 120V for single-phase systems, and 208V or 240V for three-phase systems.

Power Factor Notes : If your inverter nameplate shows a "Power Factor ($\cos\phi$)" < 1 (e.g., 0.9), adjust the formula as follows:

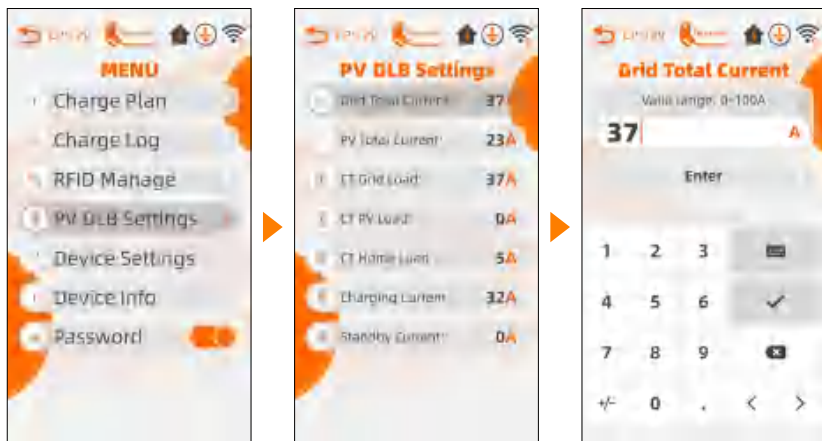
Single-Phase: $I = P \div U \div \cos\phi$

Three-Phase: $I = P \div U \div 1.732 \div \cos\phi$

For units with $\cos\phi = 1.0$, the power factor has no impact on calculations.

② Grid Mode Settings

Using the power grid for power supply



Single-phase

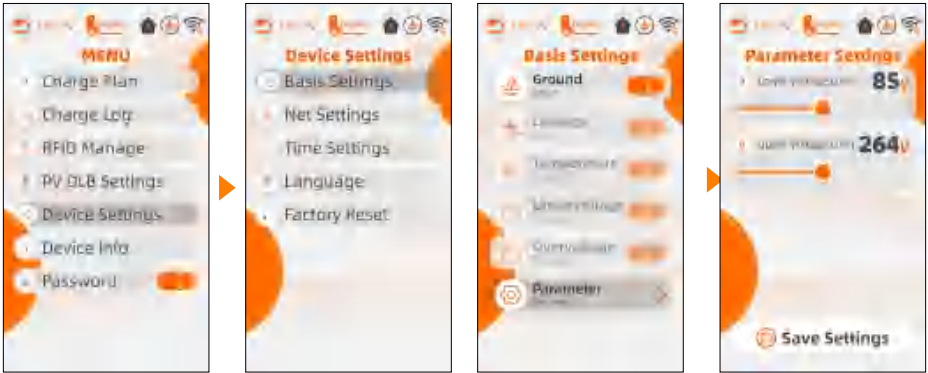


Three-phase

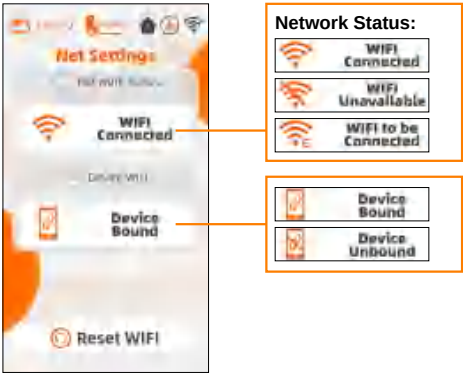
5.Device Settings

1.Basis Settings

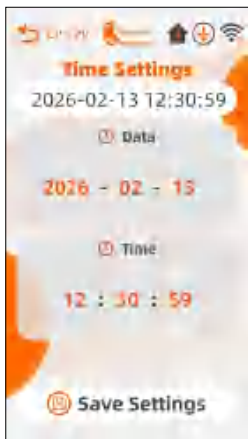
- **Ground Check** : To turn on and off the grounding (PE) detection, please use the charging station in the grounded(PE)state.
- **Leakage Check** : Turn on and off the Leakage detection. To ensure safe charging,please use the charger in a leakage-protected condition.
- **Temperature Protection** : Over temperature protection activates when temperature exceeds 85°C.
- **Undervoltage Protection** : Undervoltage protection activates when input voltage drops below 85V AC(Each Phase).
- **Overvoltage Protection** : Overvoltage protection activates when input voltage exceeds 264V AC(Each Phase).
- **Parameter Settings** : Set the minimum and maximum allowable input voltage. If the input voltage falls below the set minimum value, the charger will trigger an Undervoltage Fault; If the input voltage exceeds the set maximum value, the charger will trigger an Overvoltage Fault.



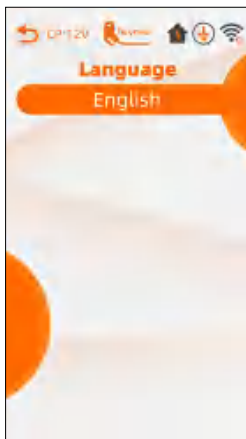
2.Net Settings



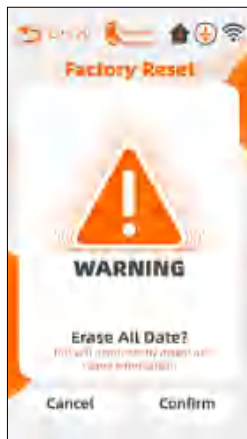
3.Time Settings



4.Language

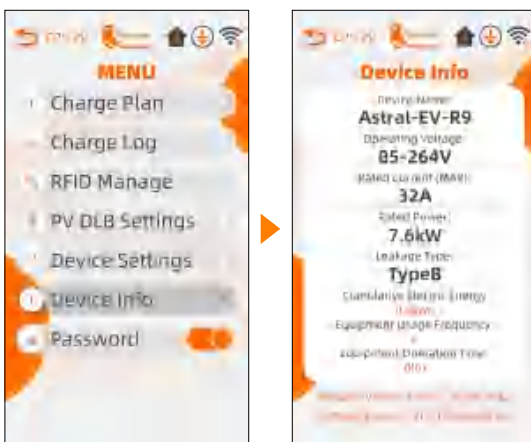


5.Factory Reset



When connected to the network, it will automatically synchronize with the local network.

6.Device Info



7.Password Settings

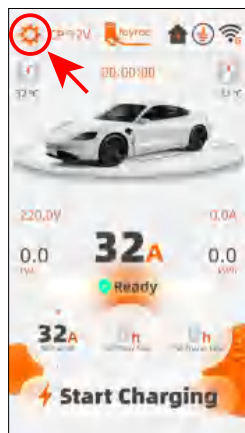
Set password

When the device is first time activated, enter the password setting interface, click on "Set Password", confirm the password again - "Set Password", and enter the device homepage.

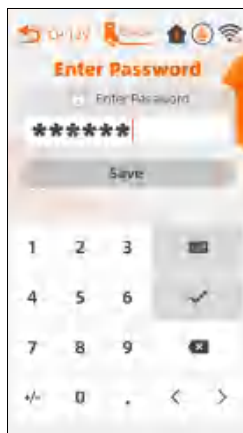


Use password enter menu

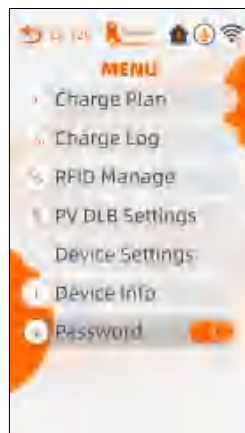
Once a password is set during initial startup, the Password switch in the MENU will turn on automatically, and a password will be required for subsequent menu access.



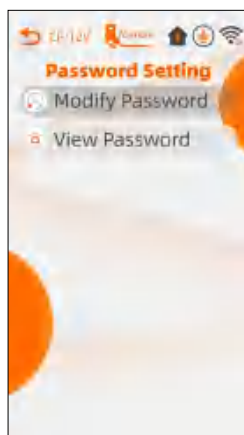
①



②

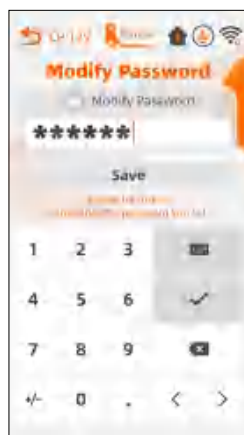


Modify password



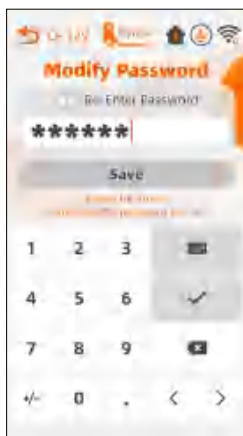
①

Password setting interface

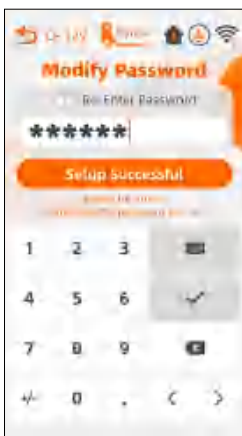


②

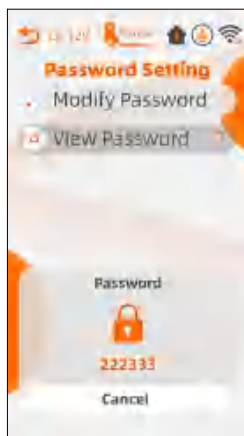
Change password



③ Confirm password again



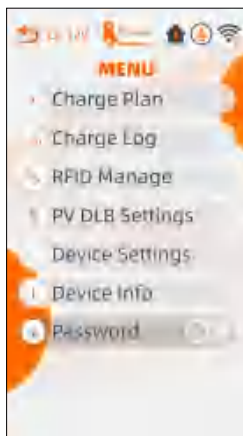
④ Password changed successfully



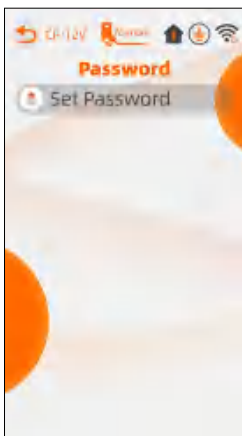
View Password

Turn on the password function

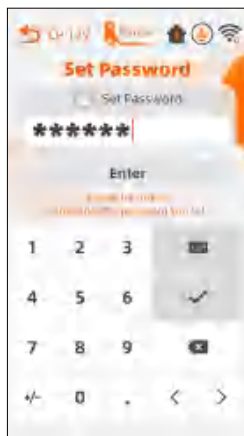
If the password setting is skipped at the beginning, the Password option switch under MENU will be turned off, and there is an option to set the password. After setting the password, the option to view the password will be displayed.



①



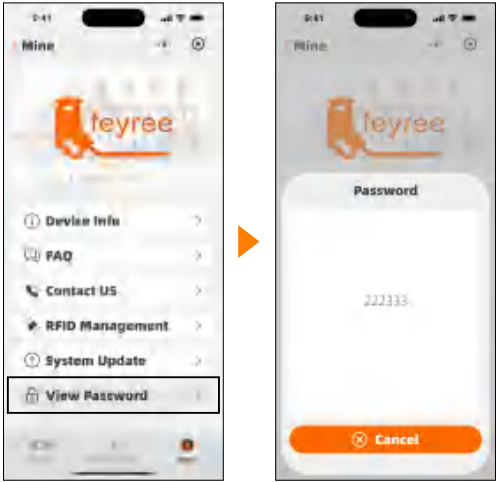
② Password setting interface



③ set password

view password on app

If a password is set for the charging station, the device password can be viewed through the mobile app.



How to use the App

How to use the App (the device needs to have Wifi function, and Bluetooth function)

1. Please download the "Smart Life" (recommended) or the "Tuya Smart" APP on your cell phone. The APP icon as shown above.

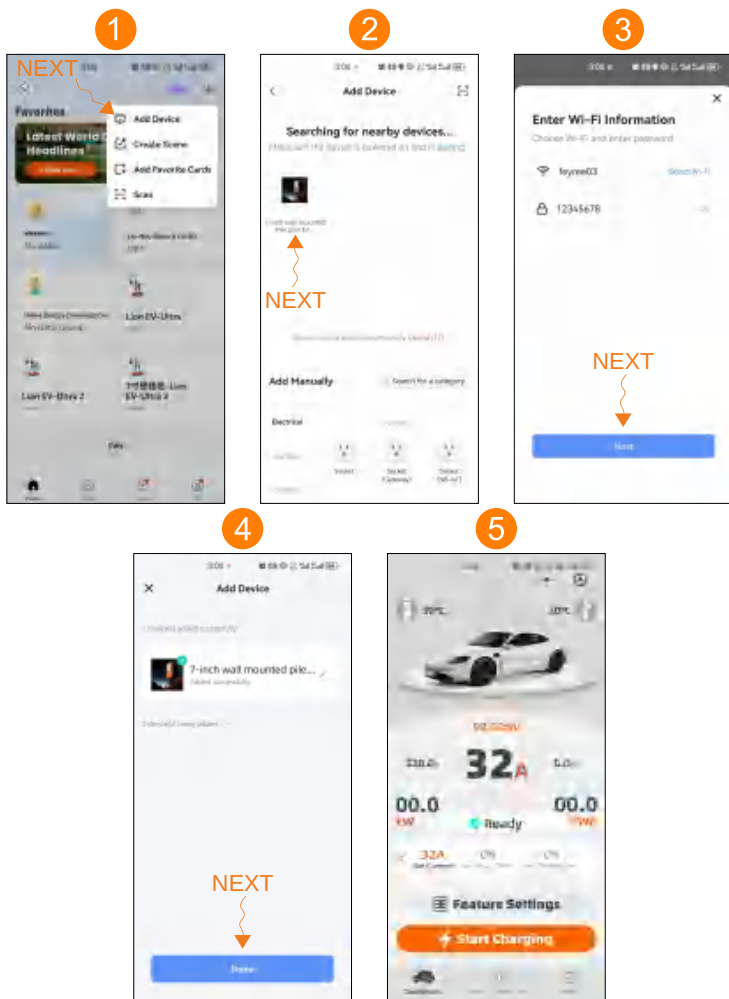


Smart life



tuya smart

2. After downloading, open the app, turn on your phone WiFi and Bluetooth, select Add Device, and follow the instructions to complete Add a new device, as shown below:



App Homepage Introduction

1. Dashboard



2.1 Energy Analysis-Charging Log

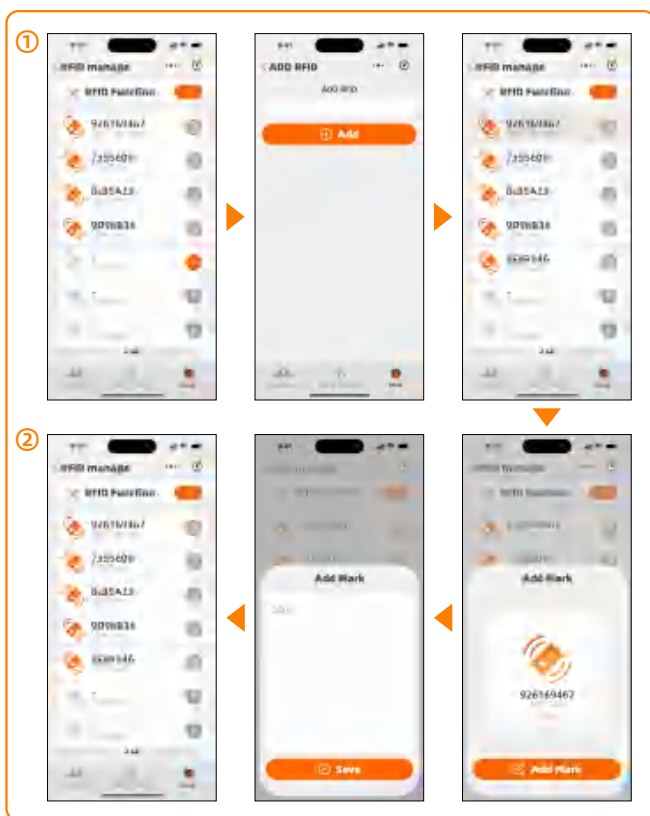
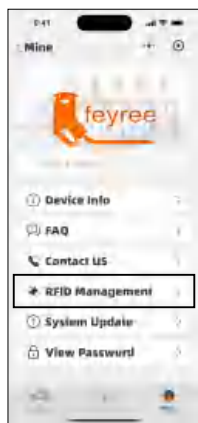


2.1 Energy Analysis-Power Analysis



3.1 Mine-RFID Management

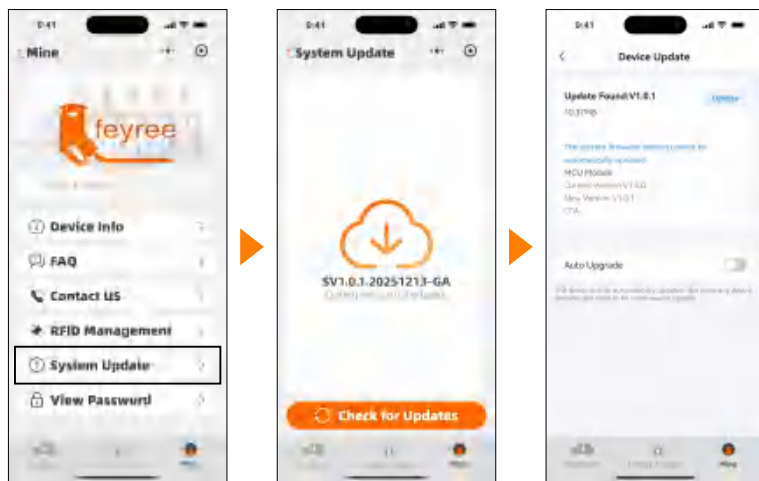
- ① Add a card
- ② Name the card



3.2 Mine-System Update

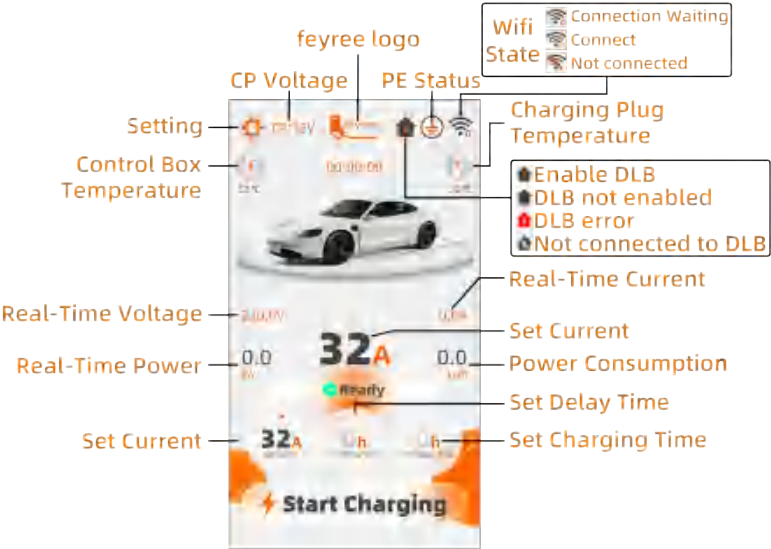
This product offers OTA (Over-the-Air) update service. When a new system version is released, you can upgrade wirelessly via the app to ensure your device always runs on the latest firmware.

Notice: Before performing an OTA upgrade, please ensure a stable network and power supply.

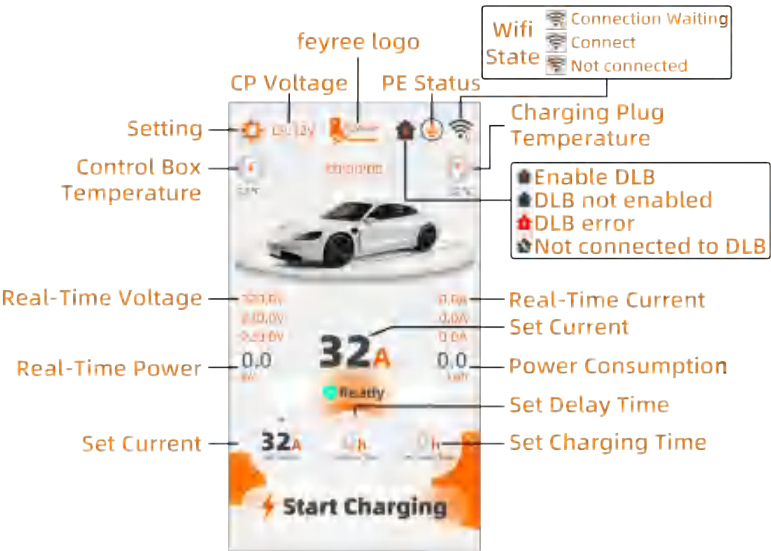


Control Box LCD Display

7.6kW/9.6kW/12kW interface as shown below

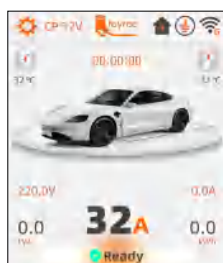


11kW/22kW interface as shown below



Control Box LCD Display

Single-phase



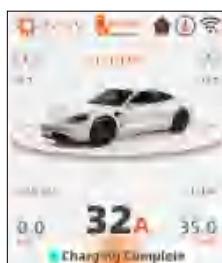
Ready to Charge



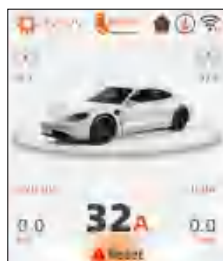
Swipe RFID Card



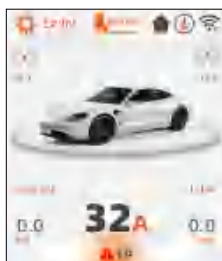
Charging



charging Complete



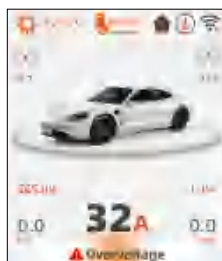
EMERGENCY STOP



Signal Failure



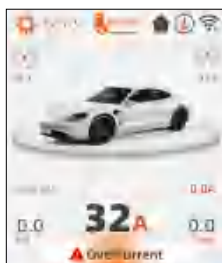
Undervoltage



Overvoltage



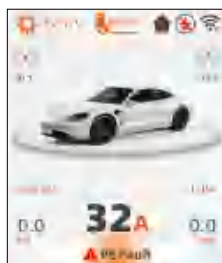
Leakage



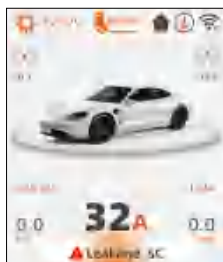
Overcurrent



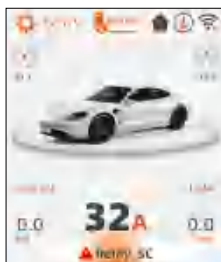
Over TEMP



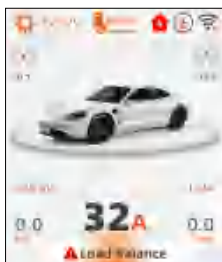
Missing of PE Protection



Leakage Self Check



Relay Self Check



Self balancing error

Control Box LCD Display

Three-phase



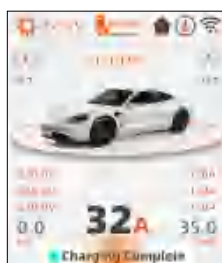
Ready to Charge



Swipe RFID Card



Charging



charging Complete



EMERGENCY STOP



Signal Failure



Undervoltage



Overvoltage



Leakage



Overcurrent



Over TEMP



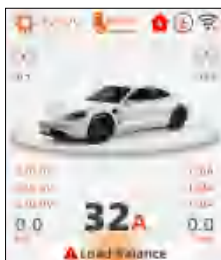
Missing of PE Protection



Leakage Self Check

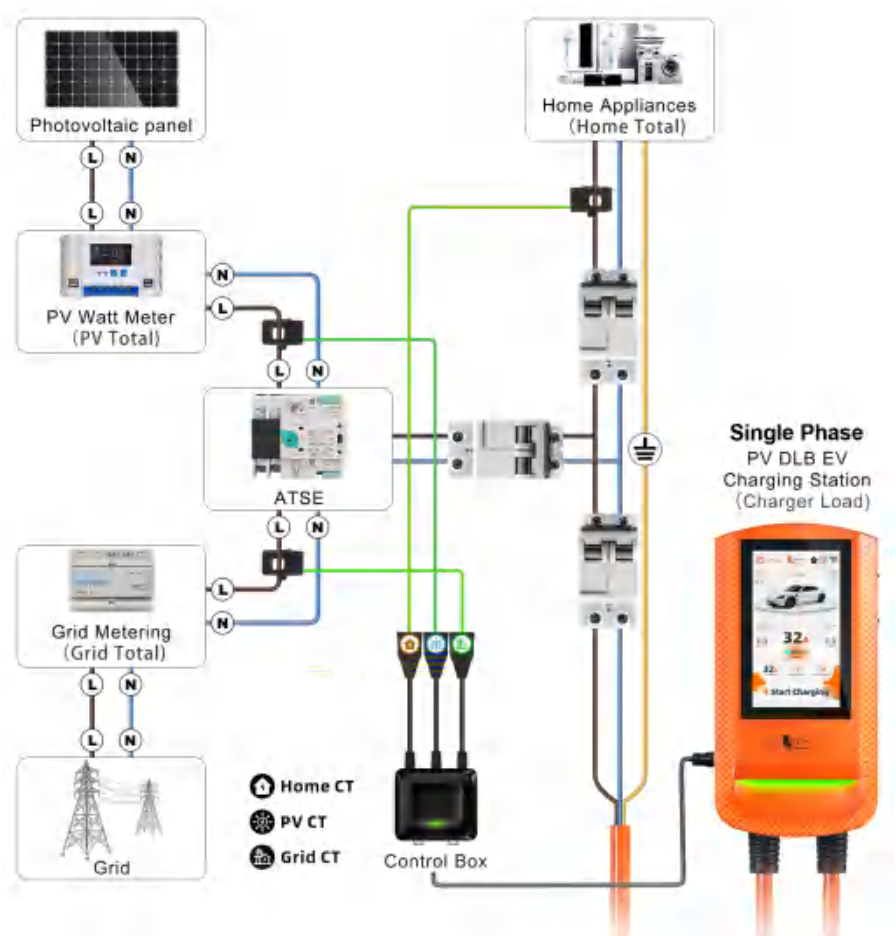


Relay Self Check

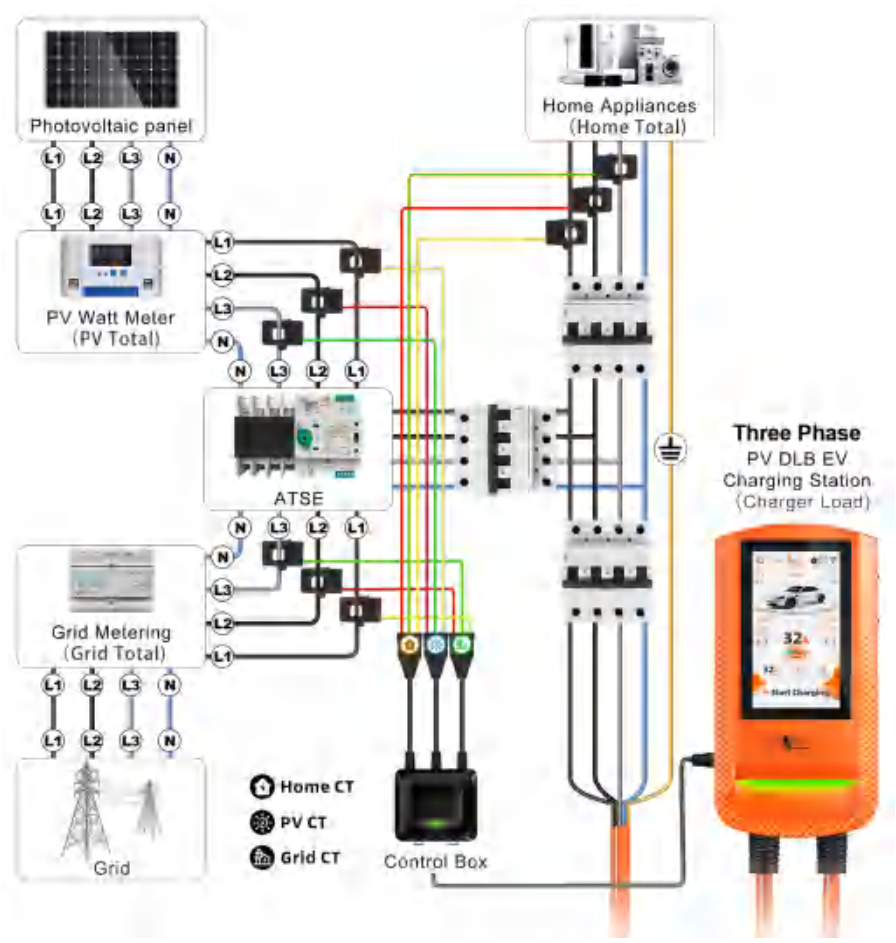


Self balancing error

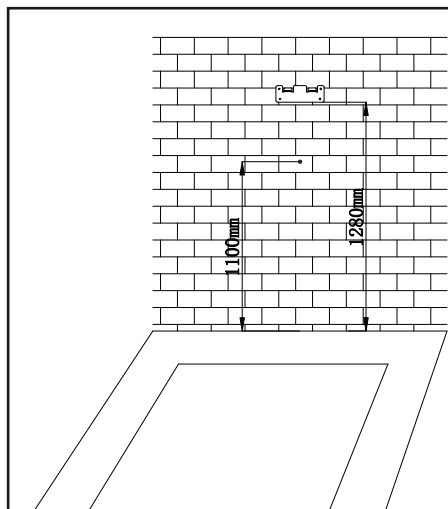
Single-phase Wiring Instructions



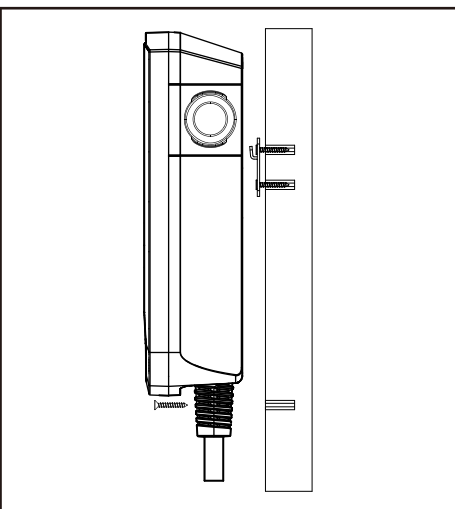
Three-phase Wiring Instructions



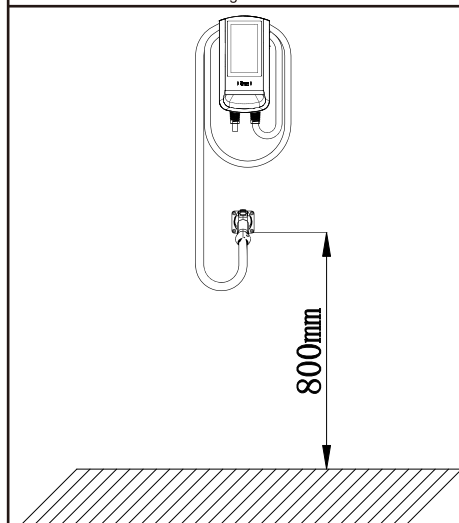
Installation and operation Instructions



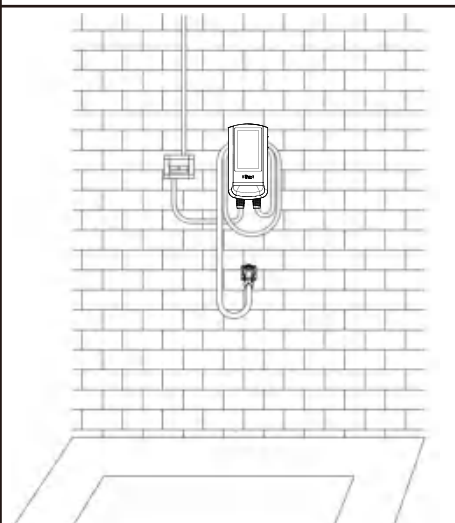
Step 1 : According to the position of the holes on the metal Back mounting bracket, use an electric drill to drill holes in the corresponding positions . Please refer to the height in the photo below to determine the charger installation height. then put the expansion tube in the hole , and then use long screws fix the metal mounting bracket on the wall.



Step 2 : After fixed the metal bracket to the wall, hang the charger on the bracket while using the screws to fix the Metal bracket underneath the charger to the wall.



Step 3 : Install the charging plug holder in the position shown in the pics above



Step 4 : Connect the power supply and make sure the charger can work properly

Common Troubleshooting

Fault name	Reason for failure	Recommendations
Over Voltage	AC input voltage is too high	1. Ask an electrician measure the input voltage of the charger's power distribution box 2. If the actual voltage is over 264V for a short time, wait for the power system to restore itself to the normal voltage range. 3. If the actual voltage is over 264V for a long time, please contact the local power supply department 4. If the actual voltage of the electrical system in your home is less than 264V, please contact us;
Under Voltage	AC input voltage is too low	1. Ask an electrician measure the input voltage of the charger's power distribution box 2. If the actual voltage is less than 85V for a short time, wait for the power system to restore itself to the normal voltage range. 3. If the actual voltage is less than 85V for a long time, please contact the local power supply department 4. If the actual voltage of the electrical system in your home is over 85V, please contact us;
Over Current	AC input current is too high	1. Cut off the power of the charger's power distribution box right away 2. Check the charging plug for foreign objects and the car's on-board charger for abnormalities 3. After troubleshooting the above problems, reconnect the power supply, if the fault still exists, please contact us
Over TEMP	Charger internal temperature greater than 85°C	1. Check that there is no other heat generating equipment or devices next to the charging station and make sure that the ambient temperature is below 50°C. 2. If the problem cannot be solved, please contact us
Elec leakage	Leakage is greater than the following values: TypeB: AC 30mA+DC 6mA	1. Cut off the power of the charger's power distribution box right away 2. Check the charging plug for foreign objects and check the car for electrical leakage 3. After troubleshooting the above problems, Reset leakage protector, reconnect the power supply, if the fault still exists, please contact us
Leakage self check	The sensor for detecting leakage is abnormal	1. Cut off the power of the charger's power distribution box right away 2. Check whether the output cable of the charging station is broken or connected to ground 3. After troubleshooting the above problems, reconnect the power supply, if the fault still exists, please contact us
PE Fault	Poor grounding or incorrect wiring	1. Cut off the power of the charger's power distribution box right away. 2. Check if the charging station is grounded properly. 3. After troubleshooting the above problems, reconnect the power supply, if the fault still exists, please contact us
Err:cp	Charging plug CC/CP connection abnormality	1. Check if the wiring of the charging plug is correct 2. After troubleshooting the above problems, if the fault still exists, please contact us
Err:Reset	Reset button is pressed	1. Check if the red button on the right is pressed, if it is pressed, rotate it back to reset. 2. After troubleshooting the above problems, if the fault still exists, please contact us
Err:Load Balance	standby current+charging current<6A	1. Check if the sum of the standby current and charging current is less than 6A. If that's the case, reduce the current of your home appliances. 2. After troubleshooting the above problems, if the fault still exists, please contact us

Charging Status and Indicator Light

Charging Status	Green Light	Blue Light	Red Light	Description
Ready	Ever-bright	/	/	Power-up for self-test or reset
Connect	Flashing	/	/	Detection point 1 voltage is 9 ± 0.8 V.
Charging	/	Breathing	/	Detection point 1 voltage is 6 ± 0.8 V, relay closed
Finish	/	Ever-bright	/	Charging finished
Err:CP	/	/	Flash 1 time(0.5S)	Detection point 1 voltage is $9.8V < U < 11.2V$; $6.8V < U < 8.2V$; $12.8V < U$ or $U < 5.2V$; relay opened
Under Voltage	/	/	Flash 2 time(0.5S)	Single-phase: voltage $< 85V$, Three-phase: $< 304V$
Over Voltage	/	/	Flash 3 time(0.5S)	Single-phase: voltage $> 264V$, Three-phase: $> 457V$
Elec Leakage	/	/	Flash 4 time(0.5S)	Relay is opened, it will be closed if re-powered after troubleshooting,
Over Current	/	/	Flash 5 time(0.5S)	The line current keep at $I_e + 2 < I \leq I_e + 4$ for 5 seconds, the relay is opened, then restarted automatically after 10 seconds. It will permanently disconnect after three repetitions. At $I > I_e + 4$, the relay is disconnected and the charging is finished.
Over Temp	/	/	Flash 6 time(0.5S)	Temperature $> 85^{\circ}C$, the relay is opened. When the temperature is $< 65^{\circ}C$, charging restarts.
Err:Reset	/	/	Flash 7 time(0.5S)	Emergency stop button is pressed, the relay is opened, and it is allowed to close only after the fault is solved
PE Fault	/	/	Flash 8 time(0.5S)	Detected that the device is not connected to the PE line and the grounding resistance is greater than 5Ω .
Err: Load Balance	/	/	Flash 9 time(0.5S)	standby current $< 6A$

APP Download QR Code



Customer Service Team

E-mail: tina@feyree.com

Warranty

Two-Year Warranty

feyree offers two-year warranty to customers who make purchased original feyree product.

Lifetime Technical Support

In case of any product-related issues, we encourage you to reach out to us, providing pictures and videos for further assistance.

Exclusions

The warranty does not cover:

- Any product damage resulting from failure to follow the recommended guidelines.
- Damage caused by unauthorized disassembly of the machine or seeking maintenance from a non-designated service center.
- Purchased not original feyree products.
- Any modifications or do-it-yourself alterations carried out without guidance from a licensed electrician.

FCC Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference; (2) this device must accept any interference received, including interference that may cause undesired operation.

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

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

Note: The Grantee is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. Such modifications could void the user's authority to operate the equipment.

The device has been evaluated to meet general RF exposure requirement.

To maintain compliance with FCC's RF exposure guidelines, the distance must be at least 20cm between the radiator and your body, and fully supported by the operating and installation configurations of the transmitter and its antennas.



www.feyree.com

Made in China