Operation Manual

7/11/22KW AC EV CHARGER

Content

Please read the operation instruction carefully before operation.to know well about the correct operation method of equipment,please safety keep it after read, convenient for future inquiry.

⚠ **WARNING** ⚡

The input and output voltage of this equipment is risk high voltage.this will endanger people's life safety. Please strictly follow all warnings and operating instruction on machine and manual.

Safety Notices

(1) Do not place flammable, explosive or combustible materials, chemicals, vapors and other dangerous items near the charging station;

(2) Keep charging head clean and dry,please use clean dry cloth wipe it if has dirt, strictly forbid to use hand touch the charging gun core when with power;

(3) Strictly forbid to use the charging pile when charging gun or charging cable existing defect, occur cracks, wear, broken and charging cable naked, please renewal in time or contact the working staffs if found it.Suggest to install a leakage protector that meets local certification standards at the input end;

(4) Please don't try to disassemble, maintain and rebuild the charging pile,please contact the working staffs if has requirement at maintain and rebuild, incorrect operation maybe caused damage.water leakage.electric leakage and other situation;

(5) Strictly forbid to plug off the gun head during charging, make ensure the human body and Vehicle safety during charging;

(6) Press down the emergency stop button when meeting the abnormal situation during use, cut off all input and output power supply;

(7) Please charging carefully if meeting raining and thunder weather;

(8) Please the children don't close and use the charging pile during charging.avoid it cause hurt;

(9) Forbid to drive the vehicle during charging, only can charge when at static situation, please misfire the mix power vehicle first then charging.
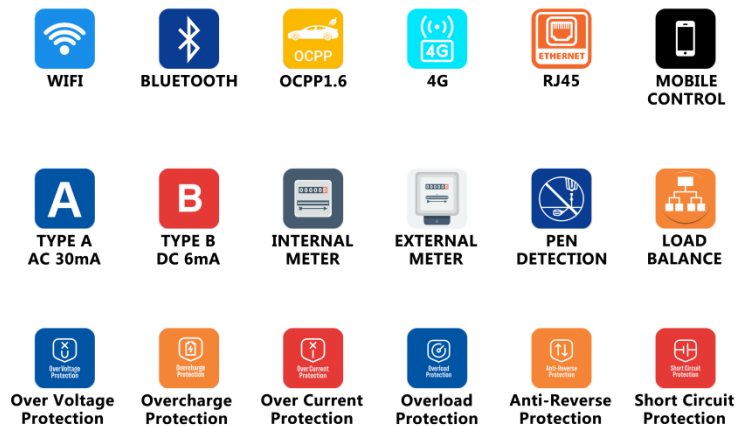
2. Product Overview

2.1 Parameters

Item	Specification	
Name	AC 7kw,11kw,22kw EV charger with optional OCPP for **commercial operation WIFI/4G/APP/Bluetooth/RFID**	
Environment	Temperature	-30°C~+55°C
	Humidity	5%~95% no congeal
	Altitude height	2000m
	Noise control	less than 30db
	Safety standards	GB/T20234.GB/T18487.GB/T27930.NB/T33008.NB/T3300L.IEC 62196.2.IEC 2010 SHEET 2-lle. IEC 61851-1, compatible old and new national standard
Electrical	Input voltage	AC220V±15%/AC380V±15%
	Input frequency	50Hz/60Hz
	The max power	7kw/11kw/22kw
	Electric relay	50A 250VA
	Rated output	Single gun max output 32A
Structure	Charging method	RFID card/plug and charge/APP/ Reservation charging
	Application	Indoor/Outdoor

FUNCTION

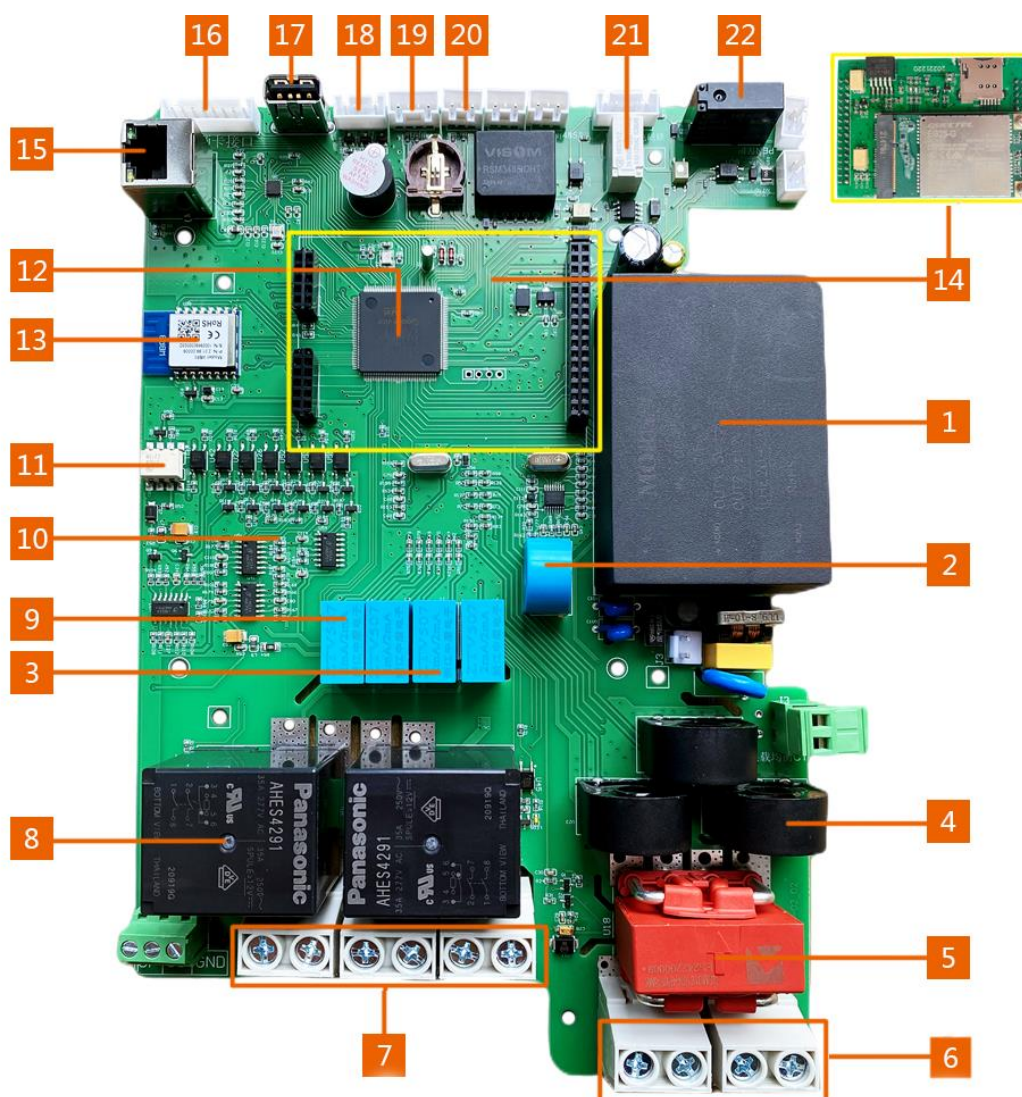|					
WIFI	BLUETOOTH	OCPP1.6	4G	RJ45	MOBILE CONTROL
TYPE A AC 30mA	TYPE B DC 6mA	INTERNAL METER	EXTERNAL METER	PEN DETECTION	LOAD BALANCE
Over Voltage Protection	Overcharge Protection	Over Current Protection	Overload Protection	Anti-Reverse Protection	Short Circuit Protection

2.2 Brief Description

This product is outdoor single gun (7kW/11kW/22kW) AC charging pile, multi-function with OCPP for commercial operation WIFI/4G/APP/blue tooth/RFID, which   provide AC power to electric automobile, provide friendly human-computer interaction touch screen, card reader, electric power metering module, network communication module.

The product applicable to running and use of outdoor public parking field, indoor public parking field, enterprise special parking field.
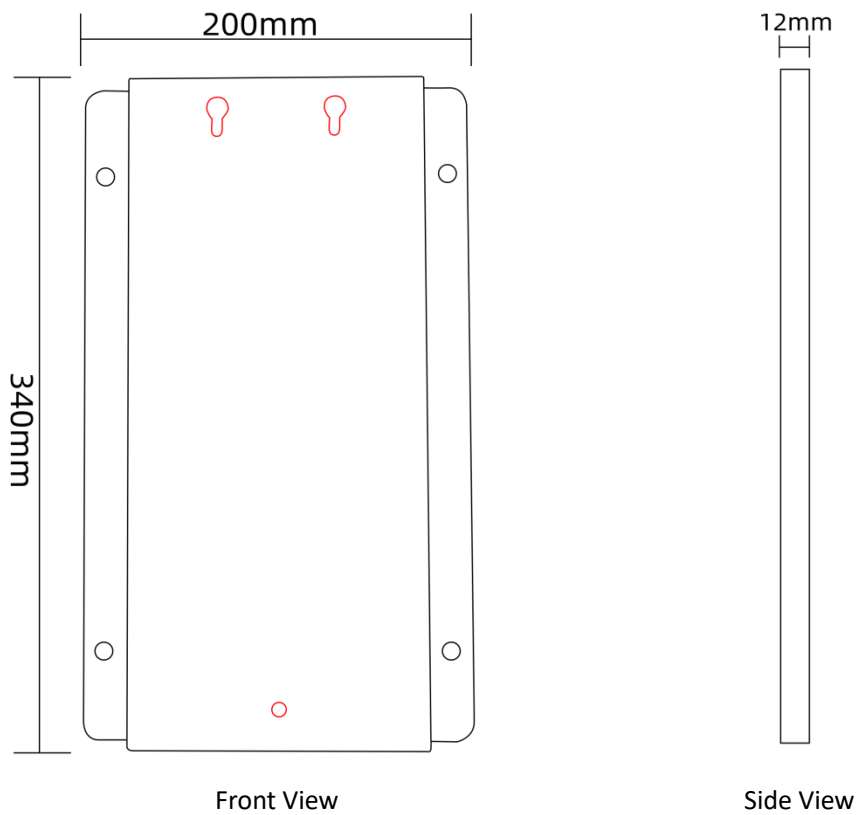
2.3 Appearance:

2.4 Inside details:

(1) Power Supply	**(2)** Load balancing transformer
(3) Voltage transformer: PT	**(4)** Current transformer:CT
(5) Leakage protection：AC 30ma Type A protection& 6MA DC protection.	**(6)** Input
(7) Output	**(8)** Relay
(9) PEN protection transformer: collecting voltage data	**(10)** CC
(11) CP	**(12)** CPU
(13) WIFI, Bluetooth	**(14)** Separate 4G modules can be inserted in this area
(15) Connecting network: Ethernet	**(16)** Connect the swiping card area
(17) USB interface: can update the recognition system and import data	**(18)** Connection indicator
(19) Connecting the touch display area	**(20)** Connecting to external electricity meter
(21) Double gun electromagnetic lock	**(22)** PEN protection:Controlled tripping

3 . Installation

3.1. External installation:

200mm

12mm

340mm

Front View　　　　　　　　　　Side View

Installation Method

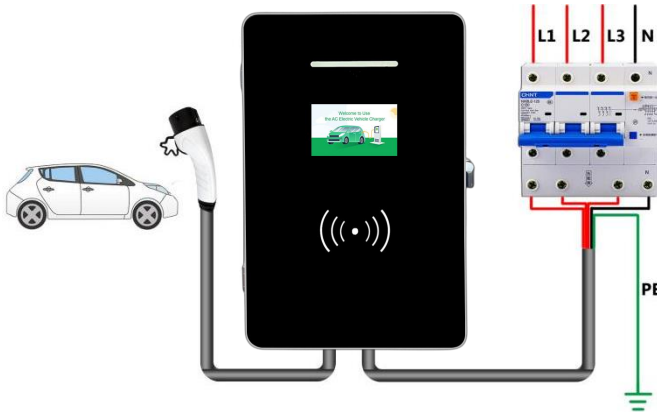**Accessories:**

Mounting plate: 1 piece
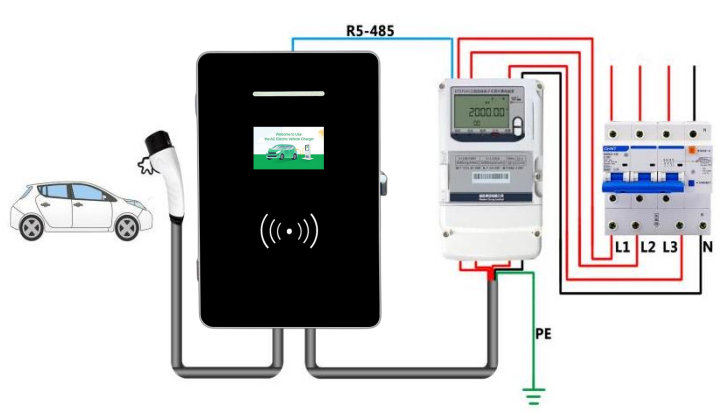
Expansion Screw: 4pcs

Screw M4*8MM: 3pcs

Steps:

☐4 holes(Black) by expansion screws to fix mounting piece on the wall;

☐Install 2 pieces M4 screws at the top of the charger;

☐Hang the charger on the mounting plate through top holes(Red);

☐Install 1 pieces M4 screws at the bottom hole(Red)of the charger and mounting plate.
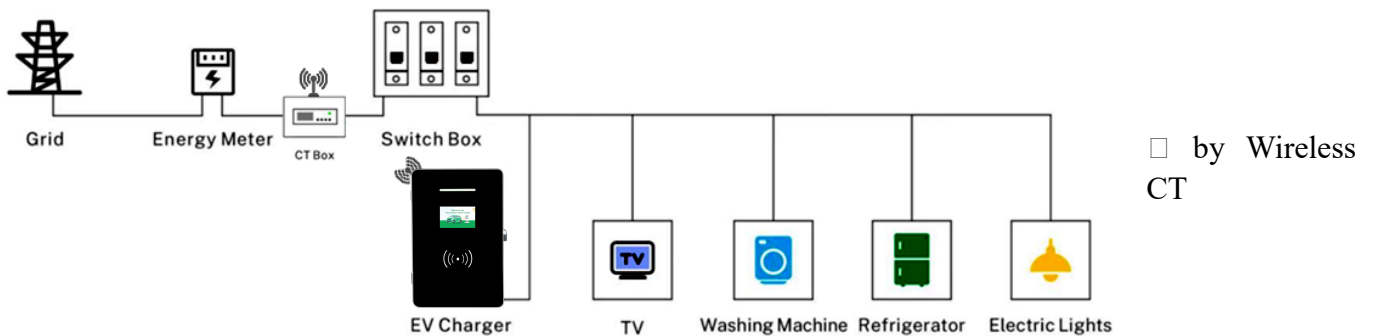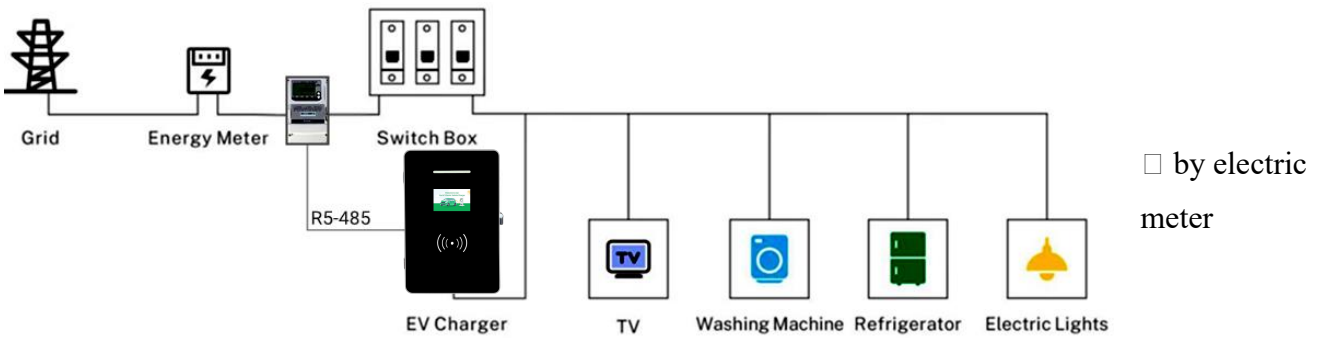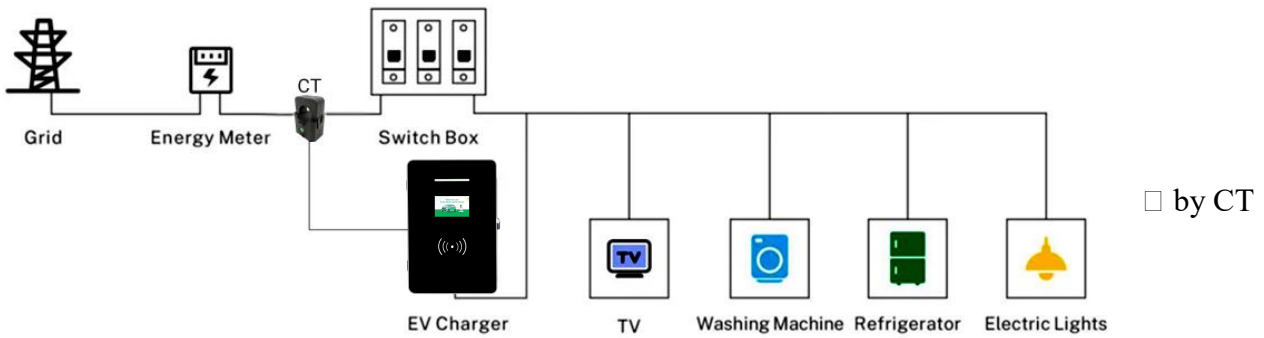
3.2. Internal connection

(1) Normal connection

(2) connection by External metering

(3)Connection by Load Balancing
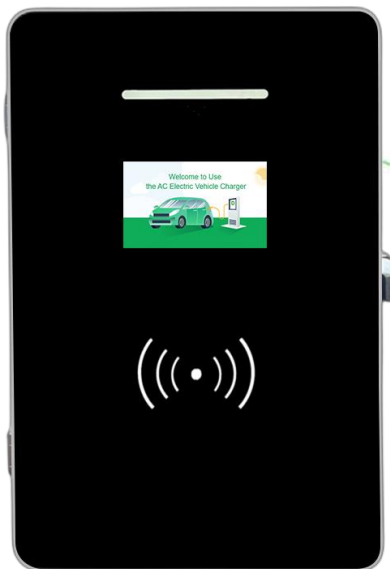

□ by CT

□ by electric meter

□ by Wireless CT

4. Operations

4.1 Preparation Before Use

1) Ensure that there are no open flames around the station and the surrounding space is open without any blockades.

2) Ensure that the charging station body and charging cable are intact.

3) Ensure proper maintenance of equipment

4) Make sure that the emergency stop button is in the pop-up state. If it has been pressed, rotate the knob in the direction indicated by the knob arrow to return to the pop-up state.
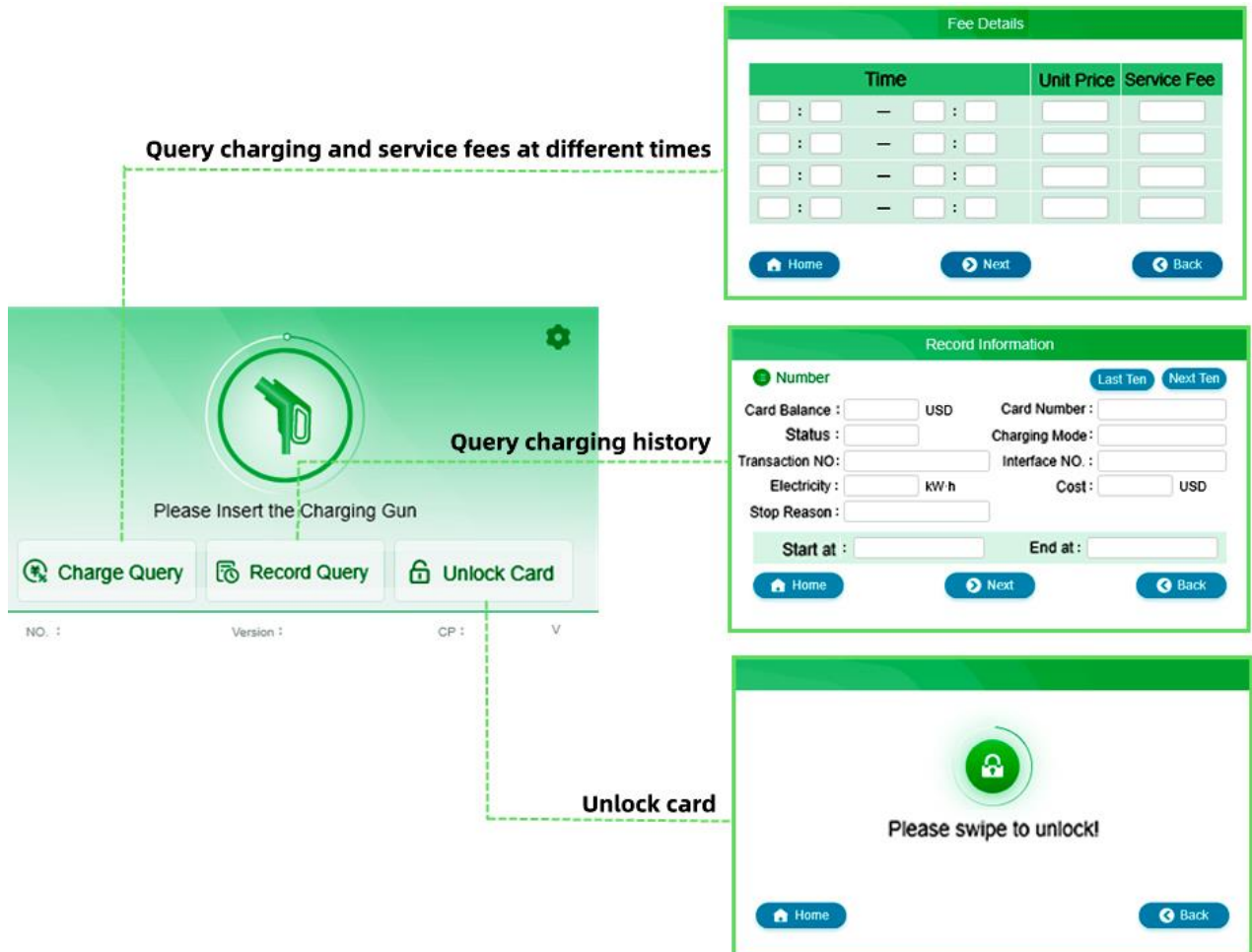
4.2 Homepage Introduction

Welcome to Use
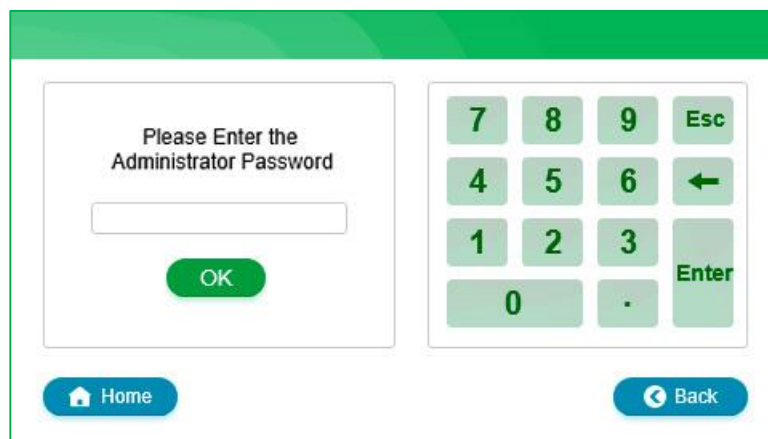the AC Electric Vehicle Charger

Start the EV charger and operate on touch screen.

4.3 Remind gun insert interface

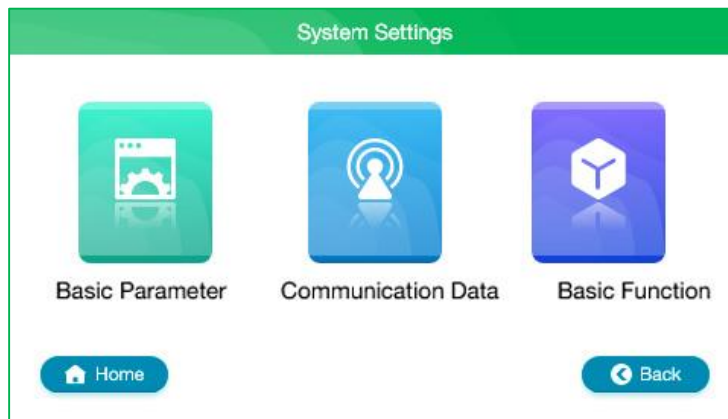It will stay at user insert gun page after charging pile start, but user not connect to charge.

Query charging and service fees at different times

Fee Details

Time		Unit Price	Service Fee
: — :			
: — :			
: — :			
: — :			

🏠 Home   ➤ Next   ◀ Back

Please Insert the Charging Gun

⚡ Charge Query   📖 Record Query   🔒 Unlock Card

NO. :   Version :   CP :   V

Query charging history

Record Information

🟢 Number   Last Ten   Next Ten

Card Balance :	USD	Card Number :
Status :		Charging Mode :
Transaction NO:		Interface NO. :
Electricity :	kW·h	Cost : USD
Stop Reason :		

Start at :   End at :

🏠 Home   ➤ Next   ◀ Back

Unlock card

🔒

Please swipe to unlock!

🏠 Home   ◀ Back

4.4 System Settings
4.4.1 Enter the password

Please Enter the Administrator Password

[ ]

OK

7	8	9	Esc
4	5	6	←
1	2	3	
0	.		Enter

🏠 Home   ◀ Back

4.4.2 Three charging configurations

(1) First, "basic parameter ", users can set the charging pile number, installation time, rated current and load balancing current by themselves

(2) Middle, "Communication data configuration", User need input:
Network port
Protocol
Wifi name
Wifi password

(3) Third, "basic function configuration":
□4 charging modes:
Online version /single mode-Card /reservation mode/plug and charge
□Metering mode: internal meter/external meter
□Ground detection and PEN protection: use/prohibition

4.5 Four charging mode operation

Select the required charging mode firstly,then connect the charging gun.

Basic Function Configuration

| Charging Mode

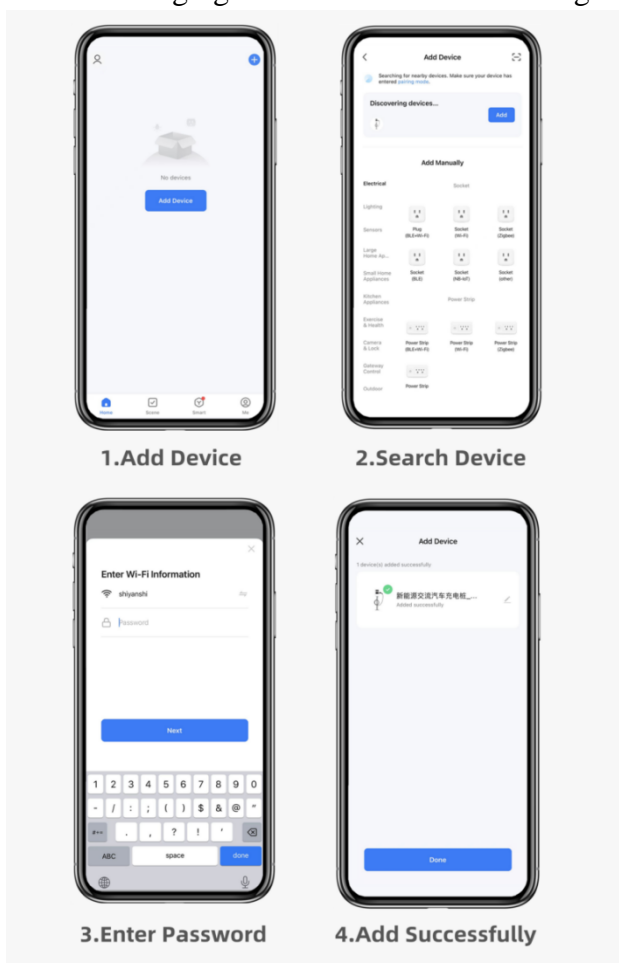| Online Version | Single Mode | Reservation Mode | Plug and Charge |

Note: The charging mode will be set according to customer's need before leaving the factory.

4.5.1 Online version: user connect the charging gun,control via mobile APP

1) Download the "Smart Life(智能生活)" APP on mobile phone, as shown in the following figure.
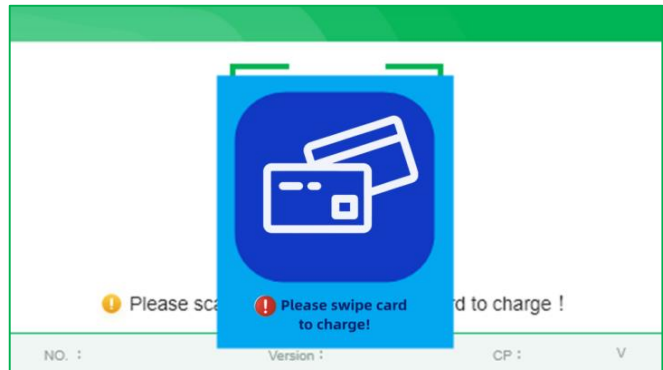

2) After the download is complete, start the APP, select Add Device, and follow the operation instructions to add the new device, as shown in the following figure,then you can start charging and know the state of charge.
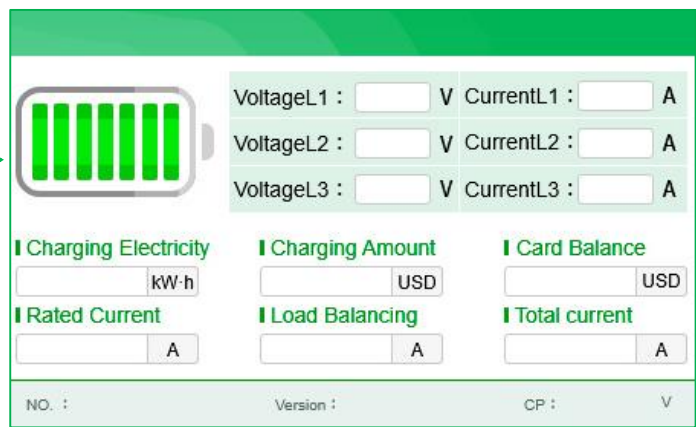

| 1.Add Device | 2.Search Device |

| 3.Enter Password | 4.Add Successfully |

4.5.2 Single mode-Charge by card:

User connect the charging gun, the interface prompts to charge by card, please do it

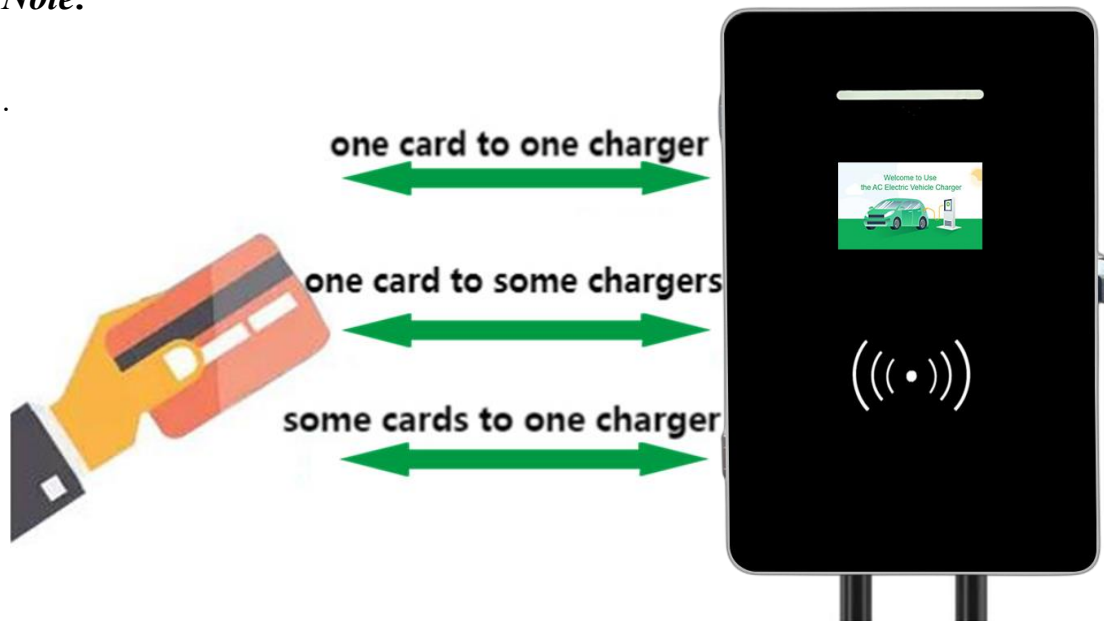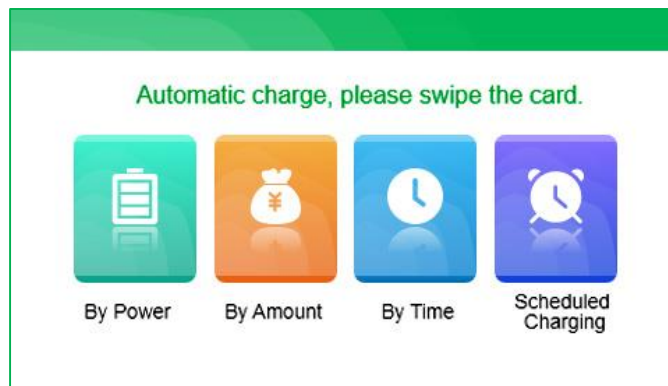Please scan ... Please swipe card to charge! ...rd to charge !

NO. :   Version :   CP :   V

Charging

VoltageL1 :   V CurrentL1 :   A
VoltageL2 :   V CurrentL2 :   A
VoltageL3 :   V CurrentL3 :   A

I Charging Electricity   I Charging Amount   I Card Balance
kW·h   USD   USD
I Rated Current   I Load Balancing   I Total current
A   A   A

NO. :   Version :   CP :   V

Please swipe the card to end charging

Note:

.

one card to one charger

one card to some chargers

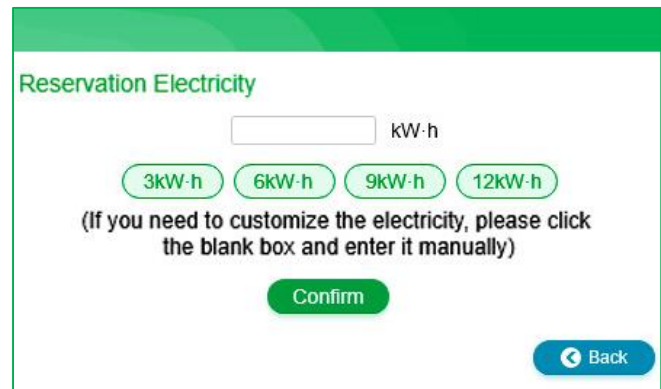some cards to one charger
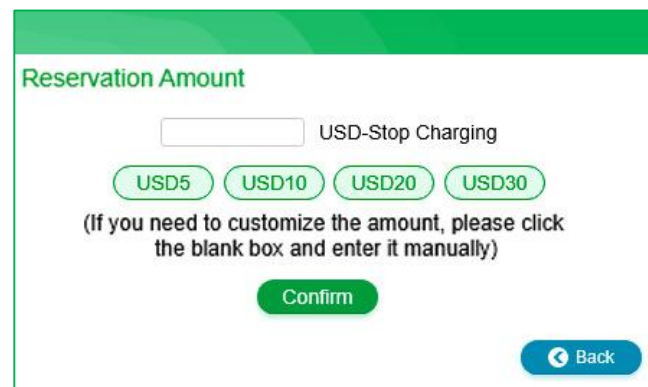
Welcome to Use
the AC Electric Vehicle Charger
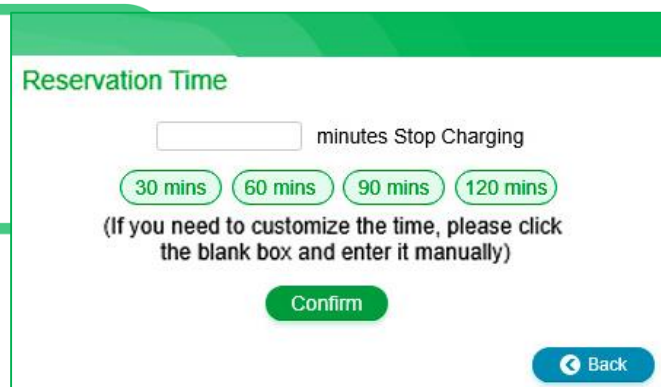
4.5.3 Reservation charging mode

Charge according to the power. If you need to customize the power, you can manually enter the required power
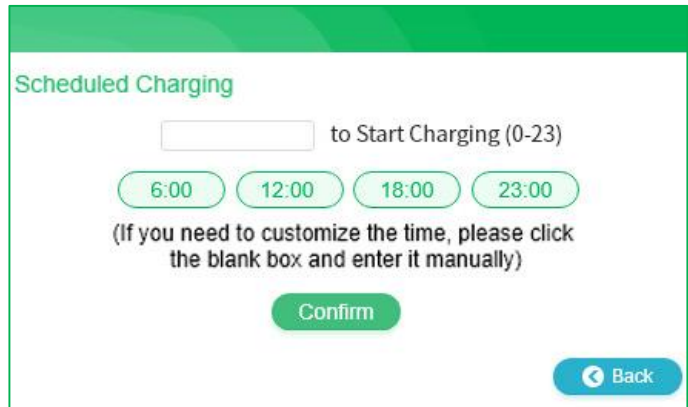

Charge according to the amount. If you need to customize the amount, you can manually enter the required amount
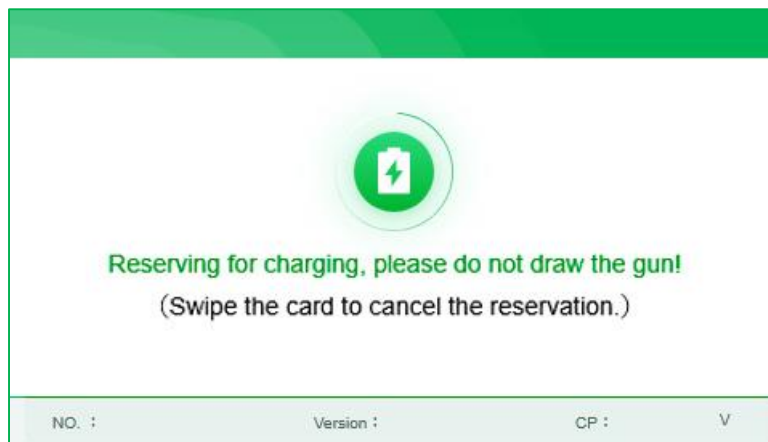

Charge according to time. If you need to customize the charging time, you can manually enter the required charging time

Scheduled charging. If you need to customize the charging time, you can manually enter the required charging time

Scheduled Charging

_____ to Start Charging (0-23)

(6:00) (12:00) (18:00) (23:00)

(If you need to customize the time, please click the blank box and enter it manually)

Confirm

Back

Click the charging mode you need, confirmed it, then you will be making an appointment for charging,and not draw the gun. Swiping the card again to cancel the appointment.

Reserving for charging, please do not draw the gun!
(Swipe the card to cancel the reservation.)

NO. :   Version :   CP :   V

4.5.4 Plug and charge

Insert the charging gun,start to charge.

4.6 Failure page

(1) The equipment will jump to failure page when occur failure, and remind the failure reason

(2) The equipment occur failure then can't charge, only can jump to normal charging interface till failure recovered,

Thanks for using TARY charging pile,please be free to contact us if any question :)