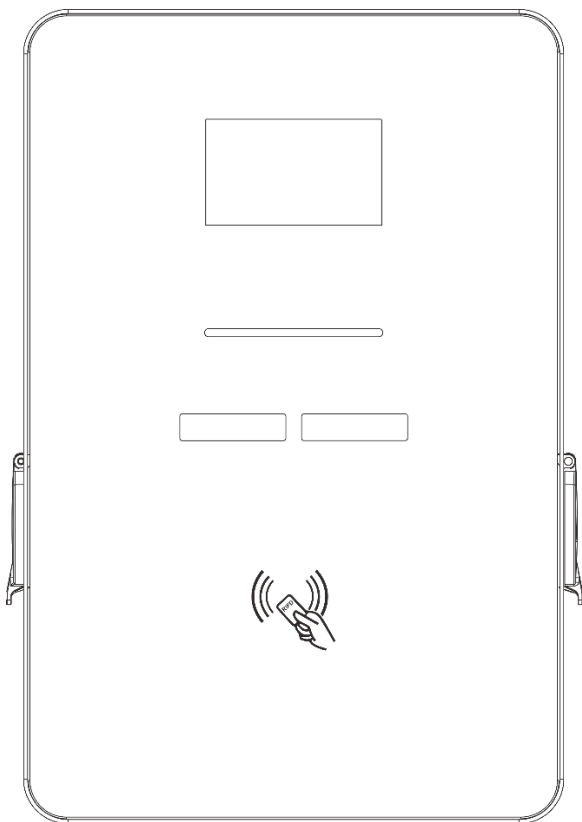


Twin Wallbox Series

T1 T2 T3

User manual



Version: V1.0

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Warranty

Shenzhen YingLi Technologies Co., Ltd. (Hereinafter “YingLi”) warrants that Products supplied to Customer pursuant to this Agreement/Contract shall be of merchantable quality and shall meet all applicable safety standards and free from any defect of design, material and workmanship within the warranty period. The warranty period is Twenty-four (24) months since from the delivery date. YingLi warranty does not cover damages resulting from inappropriate storage, incorrect installation, improper operation or bad environment beyond environmental requirement.

Customer gives notice in writing within a period of ten (10) days after Customer has discovered that some or all Products do not comply with the warranty as set out in this warranty. Customer shall provide necessary assistance to YingLi for failure detection. YingLi gives response within a reasonable time of 48 hours. YingLi shall analyze the fault reason and provide technical instruction for Customer to repair Products.

Customer repairs Products and applies for free spare parts from YingLi in case replacements are required. A written claim report about fault description, serial number of Products, photos of Products and applied spare parts must be sent to YingLi for verification. YingLi shall not accept the claim if modifications or reworking have been performed to Products without YingLi's consent. Spare parts are offered for free within the warranty period. Beyond warranty period, spare parts are offered at Customer's cost.

Faulted parts replaced by Customer shall be well stored and packaged with markings of fault description for further disposal by YingLi. The faulted parts after repair and test can be treated as spare part to Customer.

No local service is provided for free and YingLi charges service fee for local service according the following standards: USD100 (USD One Hundred Only) per person per day plus the actual travel costs and material costs. A mutual agreement should be reached before offering local service.

Except as set forth herein, YingLi provides no other warranty, whether express or implied. The warranty applies only to Products which are supplied by YingLi and are used out of Mainland China.

1 Safety and Warning

Save these instructions. Read all instruction before installing or using the charger.

- 1) Keep the charger away from explosive or flammable materials, chemicals, vapors and other hazard objects.
- 2) Keep the charger socket clean and dry. If it gets dirty, please wipe it with clean dry cloth.
- 3) Touching the socket core is strictly forbidden when power on.
- 4) Do not use the charger in case of any device defects, crack, abrasion, bare leakage and so on. Please contact the professional personnel if any of these conditions occurs.
- 5) Do not attempt to dissemble, repair, refit the charger. If necessary, please contact the professional personnel. Improper operation will result in device damage, electric leakage, etc.
- 6) In case any abnormal condition happens, please cut off all input and output power supplies immediately.
- 7) Please protect charging carefully from rain and lightening.
- 8) Keep children away from the charger.
- 9) During charging, do not drive the EV Charge only when the EV is stationary, for hybrid cars, charge only when the engine is switched off.
- 10) Our packaging materials are environmentally friendly and can be recycled. Please put the packaging in applicable containers to recycle it. Do not dispose of this device with the household waste. It should be taken to a suitable facility for recycling of electrical and electronic devices. For more detailed information about recycling of this device, please contact your local city/town council office or your household waste disposal service.



Warning



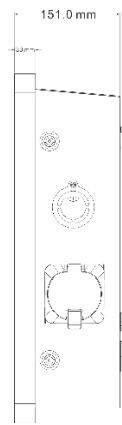
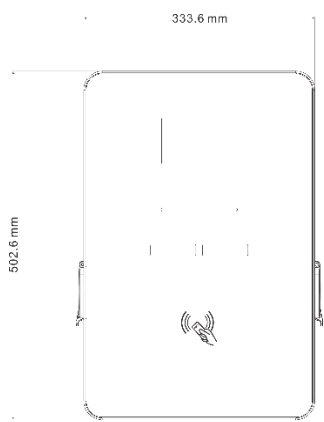
The input and output voltages of this device are high voltage, which threaten human life safety. Please strictly observe all warnings on the device and user manual. Unauthorized and non-professional service personnel are forbidden to remove the cover of this device.

2 Introduction

2.1 Product Technical Specifications

Model	YLEV14K-T1	YLEV22K-T2	YLEV44K-T3
Technical features			
Charging capacity	Up to 14KW(7KW*2)	Up to 22KW(11KW*2)	Up to 44KW(22KW*2)
Input/Output power	230VAC±20%-50/60Hz-32A*2-1phase	400VAC±20%-50/60Hz-16A*2-3phase	400VAC±20%-50/60Hz-32A*2-3phase
RCD	30Ma RCD Type A and DC 6Ma RCD function or Type B(optional)		
Standby power	<10W		
Measuring accuracy	1%		
Energy Meter	MID certified		
OCPP	OCPP1.6 Json(OCPP2.0 optional)		
Communication	WIFI/Ethernet/4G(Optional)		
User interface	LED/LCD(5'')/ RFID(mifare iso& IEC 14443A)		
Certificate	CE / EN/IEC 61851-1:2017, EN/IEC 61851-21-2:2018		
Charging Interface	Type 2 socket*2 or Type 2 Gun *2 5M		
Special Protection	Over current protection, Residual current protection, Ground protection, Surge protection, Over/Under voltage protection, Over/Under frequency protection, Over/Under temperature protection		
Physical properties			
Warranty	2 years		
Protection	IP54, IK10 ,		
Enclosure	Plastic PC940/ Galvanized steel		
Front Panel	Temper glass		
Installation	Wall Mount or Floor-stand(Wall Mount)		
Cooling	Natural cooling		
Operating temperature	-30℃ to +55℃		
Humidity	Max.95%(non-regulating)		
Product Dimensions	497*321*230(L*W*H)mm		
Package Dimension	620*440*250(L*W*H)mm		
Net Weight	14Kg	14Kg	14Kg
Gross Weight	15.15Kg	15..15Kg	15.15Kg

2.2 External Structure



2.3 Package Contents

Unpack the product. Please check and verify following items after receiving the charger :

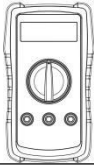
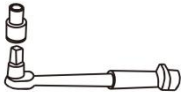
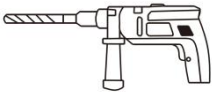
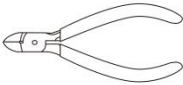
- Visual inspection on charger’s external appearance. If there is any breakage or other damage,please notify the seller immediately.
- Check type and quantity of all accessories as follows. If there is a shortage in the quantity of any item or if any items are missing, please contact the seller at once.

	User Manual (x1)		M6 Screw nut (x4)	
T1/T2/T3(x1)		RFID CARD (x2)	Key (x2)	

3 Operation Instruction

3.1 Installation Preparation

1) Tools required

Tool Name	Photo	Function
Multimeter		Check electrical connection and electrical parameter
Cross Screwdriver (PH2x150mm, PH3x250mm)		Tighten the screws
Insulated Torque Wrench		Tighten the bolts
Electric drill		Hole on the wall
Diagonal Pliers		Cut cables

2) Cables & Materials

Name	Specification	Quantity
Power supply cable(F1)	3*12MM ²	1
Power supply cable(F2)	5*6MM ²	1
Power supply cable(F3)	5*12MM ²	1

3.2 Installation Process

1) Installation Notice

- Electrical devices should only be installed, operated, and maintained by qualified personnel. No responsibility is assumed by the manufacturer for any consequences arising out of the use of this device. A qualified person is one who has certified skills and knowledge related to the construction, installation and operation of this type of electrical device and who has received safety training to recognize and avoid the hazards involved.
- All applicable local, regional, and national regulations must be applied when installing, repairing and maintaining this device.
- RCD of the charger is intergrated 6mA DC, please install a Type A breaker outside.

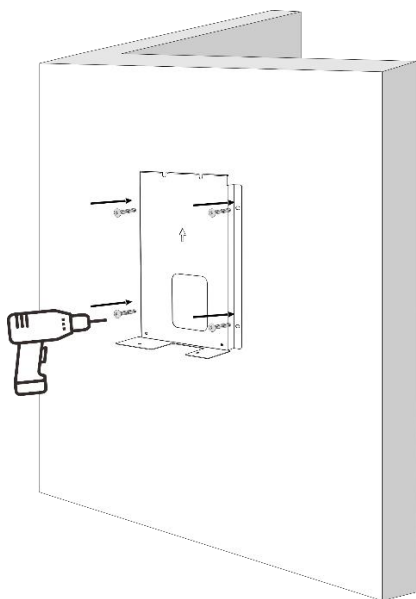
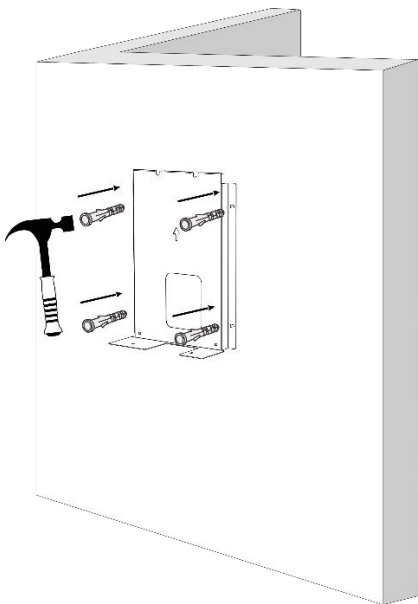
2) Checks before starting the Installation Process

- Ensure the charger's location allows good operational access for normal use and repair & maintenance.
- The AC input components within the premise's power supply are correctly fitted with required protection items prior to installation of the charger.

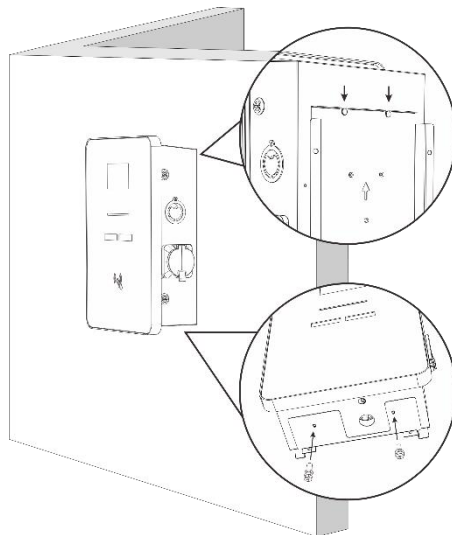
Installation Foundation

3) Installation Procedure

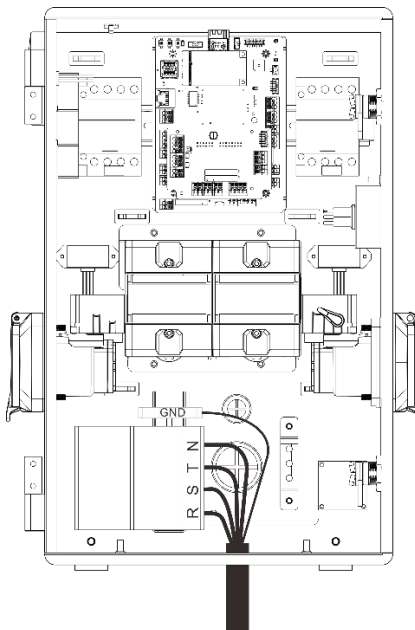
1. Install expansion bolts(4*M6*60MM)



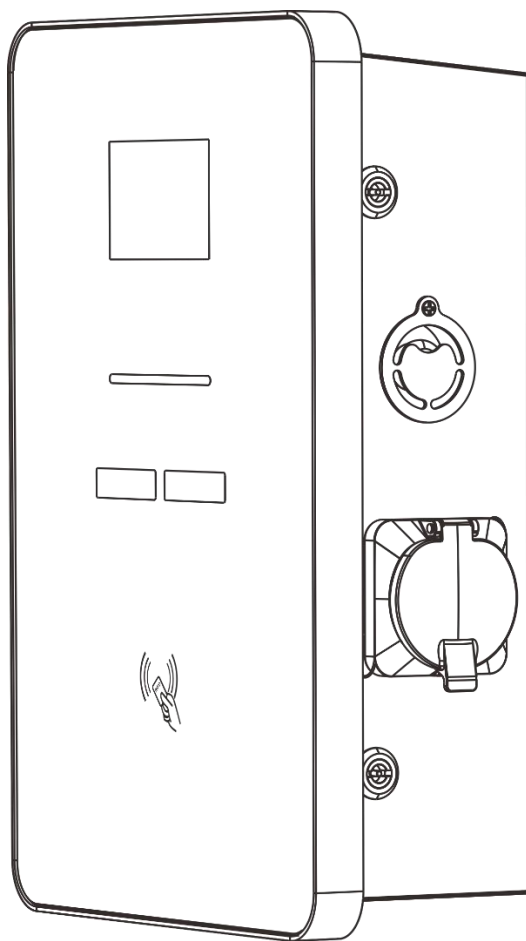
2. Install the charging station onto the wall mounted panel and secure the bottom 2 screws



3. Use a cable with a size of $5 \times 4 \text{ mm}^2$ (11KW) or $5 \times 6 \text{ mm}^2$ (22KW) to connect to the input terminal of the charging station, from down to up R S T N and PE wire, and then tighten the screw with a screwdriver.



4. Lock the cover and start to test and charge



4) 4.OPERATION

4.1Power on

After the charging station has been installed and installation has been confirmed, the charging station switches to standby state, The display is shown in fig. 6-1.

Human-Machine Interface Overview

As shown in Fig. 6-1, the EMN series product is configured with multiple human-machine interfaces.



Fig. 4-1 HMI of AC EV Charging Station

4.2 RGB LED indicators

Charger status	LED performance
Standby	blue (online)
plug in	yellow
swipe/punch a card	yellow
charging	Light green breath
Fault status	Red flashing

4.3 LCD indicators

the EMN series config a 5-inch LCD screen, which is mainly used to display various status information of the charging station, shown as Fig. 4-2.

■ Icons or instructions in each display area

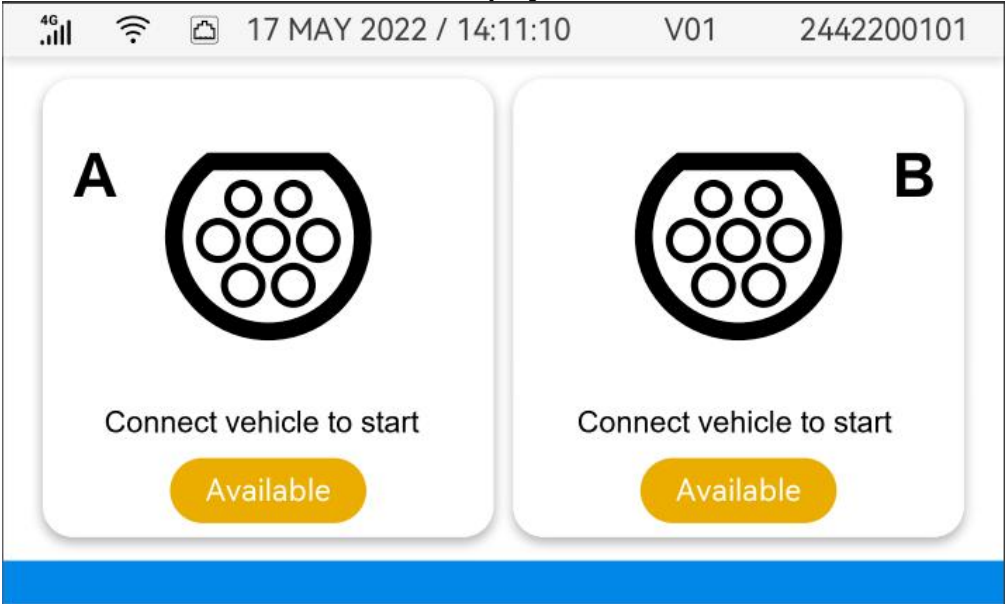


Fig. 4-2 Display of icons and instructions

In Fig. 4-2, there are three areas to display icons or instructions, with the specific meanings as follows:

No.	Icon	Description
Area ①		
1		Connected a network through 4G cellular
2		Connected a network through WIFI
3		Connected a network through Ethernet
Area ②		
4	QR code	Serial number of EVSE
Area ③		
5	status	EVSE status information
6	version	Software version

- As shown in Fig. 6-3,6-4,6-5,6-6, the LCD screen displays 4 types picture in normal state.

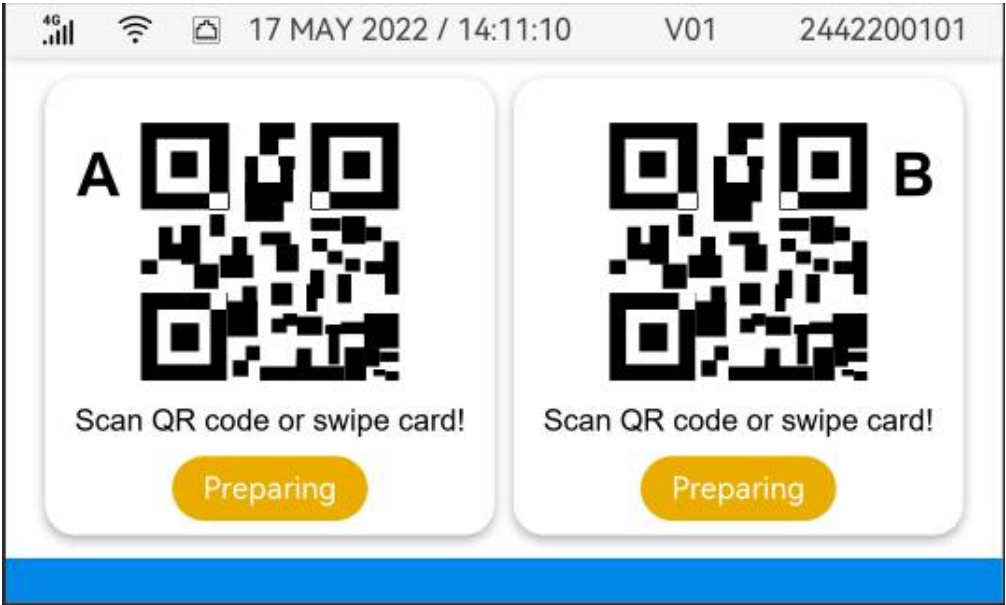


Fig. 6-3 Display of Preparing

Fig. 6-4 Display of Charging

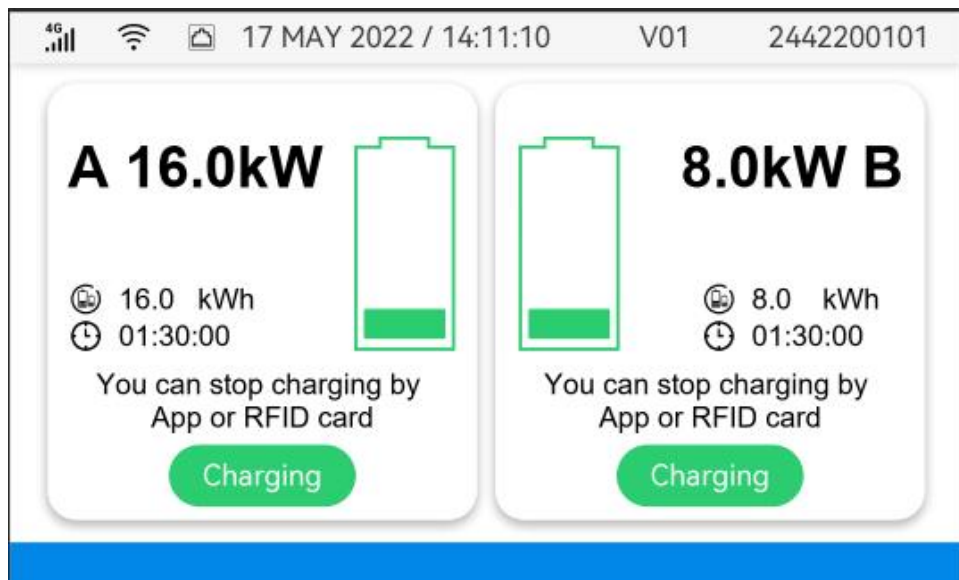


Fig. 6-5 Display of Charging

- If the charging process fails or the equipment fails, the picture displayed on the LCD screen is shown in Fig. 6-6.

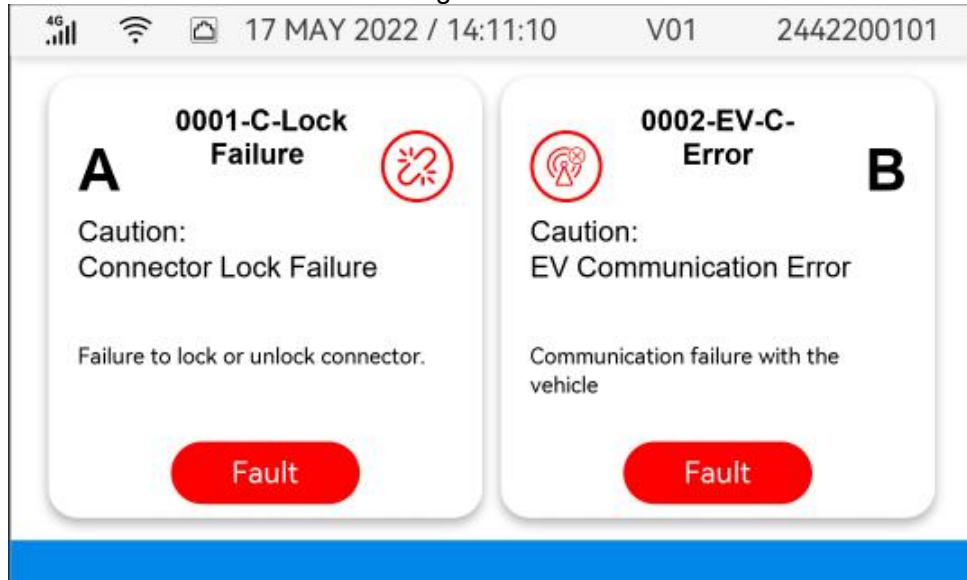


Fig. 6-6 Display of fault state

4.4 RFID reader

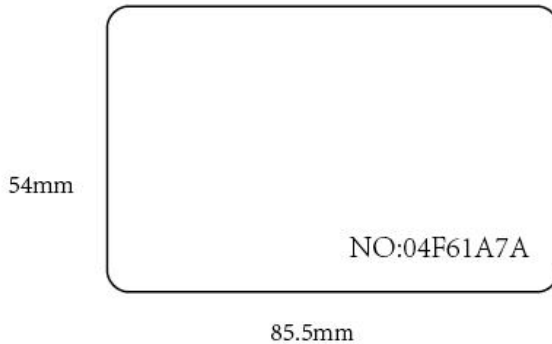


Fig. 6-7 RFID card

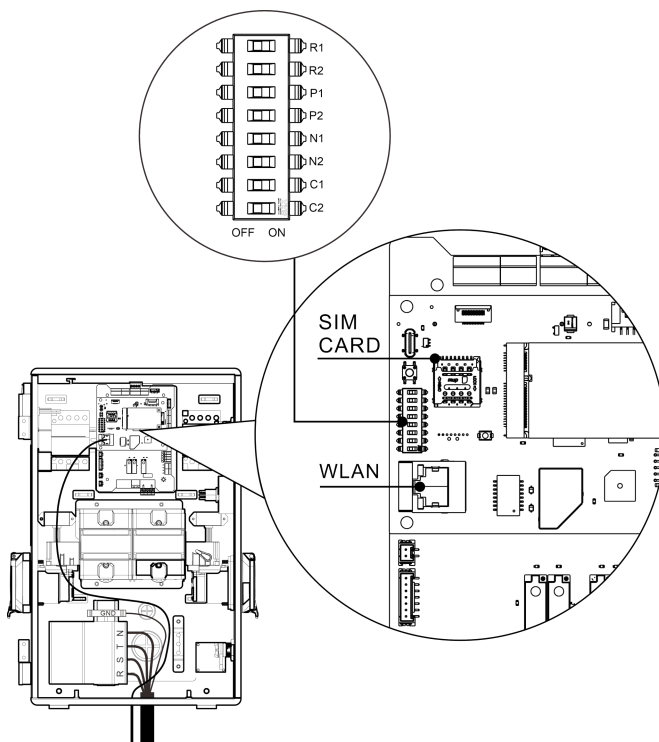
In general, the charging station is equipped with RFID card reader as standard, and the charging process can be started and stopped by using the RFID card (shown as Fig. 6-7) configured with the host. The special customized card swiping function is not separately described here

4.5 Emergency stop button

The button can stop or start charging after the device is configured to allow the button to start, The user can configure whether the function is enabled. See the 6.3 Configure parameters for details AC EV charging station config a type 2 charging connector. When the charging station is in standby state, please plug the charging connector into the empty socket in order to protect the charging connector.

4.6 Configure parameters(dynamic IP)

- Step 1: the same LAN router connect to EVSE with RJ45 line.shown as Fig. 6-9.
- Step 2: DIP switch to select dynamic IP, all dial to OFF.shown as Fig. 6-9

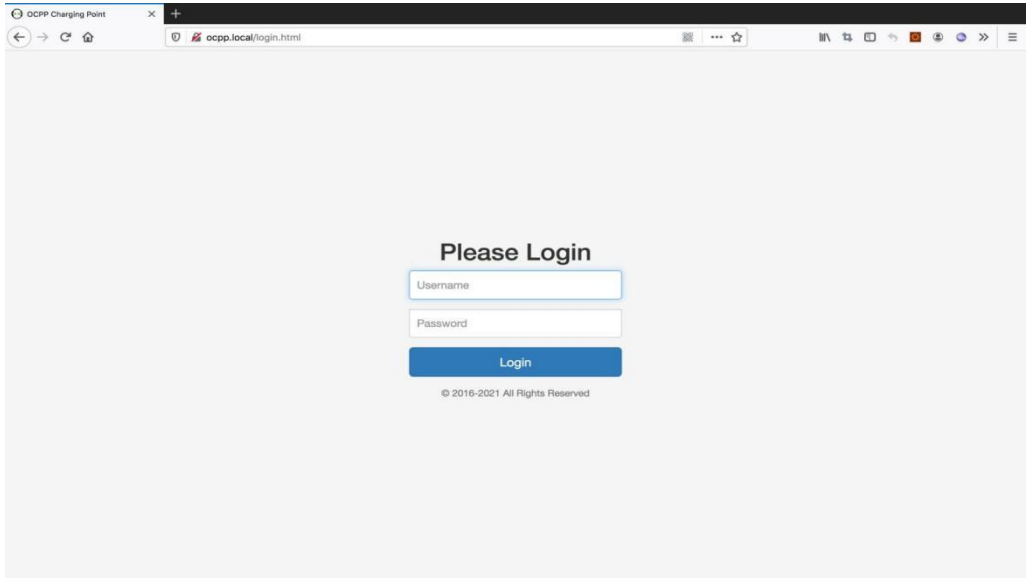


	ON	OFF	
C2	2 GUN	1 GUN	
C1	11KW	22KW	
N2		☐	Ethernet DHCP
N1		☐	
N2	☐		WIFI
N1		☐	
N2		☐	4G
N1	☐		
N2	☐		Ethernet static
N1	☐		
P2	Socket	Cable	
P1	Socket	Cable	
RCMU2	Enable	Disable	
RCMU1	Enable	Disable	

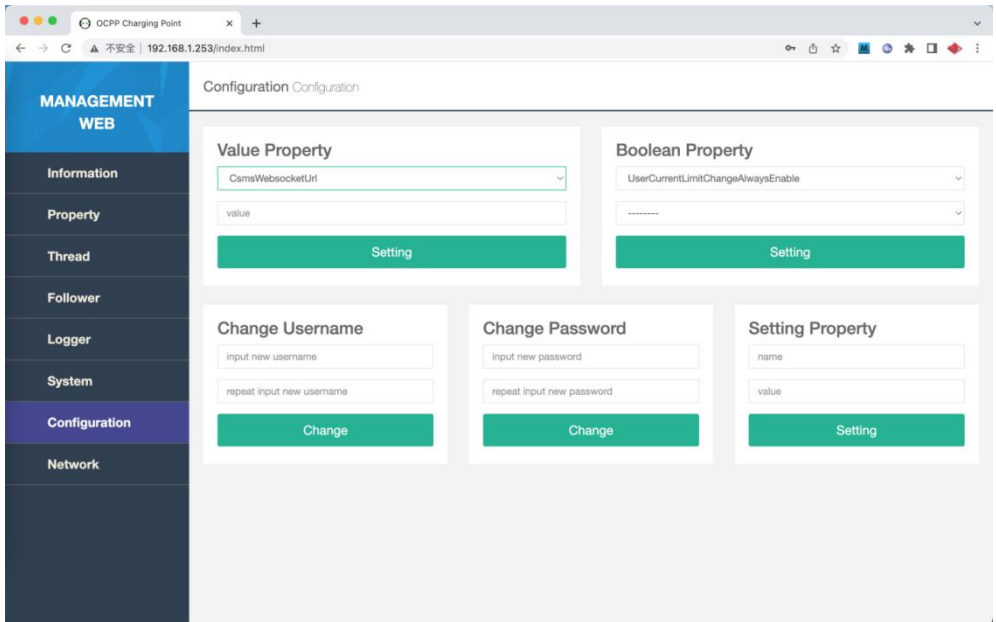
Fig. 6-9 Connect to EVSE WLAN with RJ45 line

■ Step 3: Login to the web interface

Enterhttp: <http://ocpp.local/index.html> in the address bar of Google Chrome or Microsoft Edge, you can access the EVSE CONFIGURATION shown below fig, and Microsoft IE cannot access this IP address.



Enter the correct login username and password to enter the page as shown UP fig. The username is **root** password is **root@123456**. As shown below fig, set the parameters on the “Configuration” page.



4.8 Configure parameters(static IP)

Taking the configuration of charging station parameters by laptop as an example, it is introduced as follows (the method of setting parameters by mobile phone is similar and will not be repeated):

- Step 1: Connect to EVSE with RJ45 line.shown as Fig. 6-9
- Step 2: DIP switch to select dynamic IP, all dial to ON.shown as Fig. 6-9
- Step 3: Keep your laptop in a state where it LAN use static IP 192.168.1.100, default gateway 192.168.1.253, network mask 255.255.255.0. Connect to the EVSE with RJ45 line.You should switch the board N1/N2 both to ON and reset the EVSE. By this setting the EVSE use a static IP 192.168.1.253. Now you can use <http://192.168.1.253> to login to the manage web.

General

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

☐ Obtain an IP address automatically

☒ Use the following IP address:

IP address:	192 . 168 . 1 . 100
Subnet mask:	255 . 255 . 255 . 0
Default gateway:	192 . 168 . 1 . 1

☐ Obtain DNS server address automatically

☒ Use the following DNS server addresses:

Preferred DNS server:	192 . 168 . 1 . 1
Alternate DNS server:	. . .

☐ Validate settings upon exit

Advanced...

Fig. 6-10 Setting PC LAN network

■ Step 4: Login to the web interface

Enter <http://192.168.1.253> in the address bar of Google Chrome or Microsoft Edge, you can access the EVSE CONFIGURATION shown in Fig. 6-11, and Microsoft IE cannot access this IP address. The username is **root** password is **root@123456**

OCPP Charging Point

← → ↻ ⚠ 不安全 | 192.168.1.253/login.html

Please Login

root

Login

© 2016-2021 All Rights Reserved

Fig. 6-11 Login of EVSE CONFIGURATION

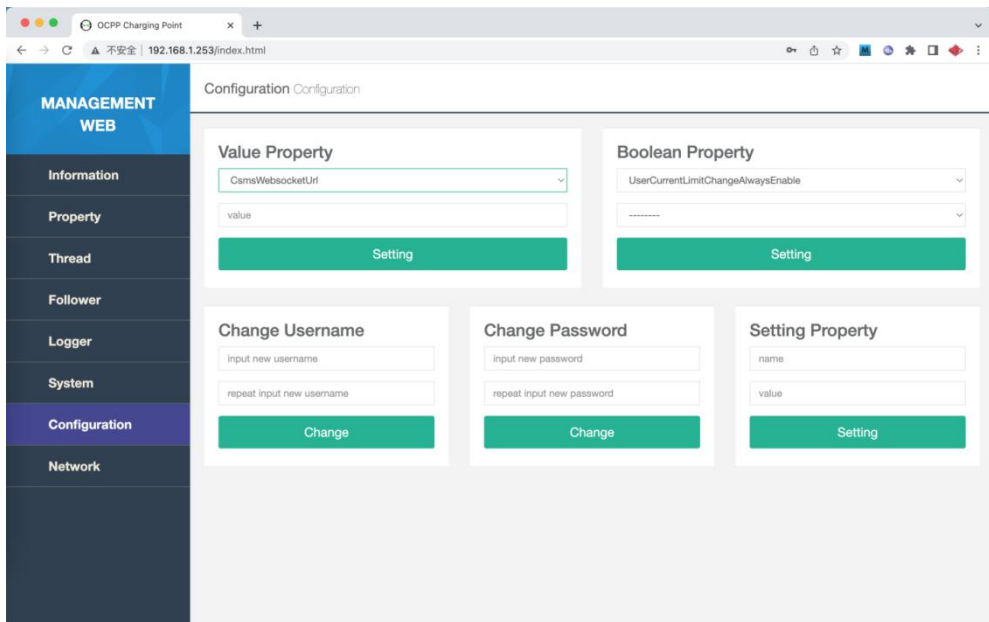


Fig. 6-12 Set parameters to config the EV charging station
After setting, click the “System” ---> “Reset Device” button to restart charging station for settings take effect.

4.9 Start Charging

Note: The vehicle to be charged must be parked, switched off and the parking brake engaged.

- Park your EV into place, turn off, and put the EV under braking.
- For tethered (cable) version: Remove the Type 2 cable from the plug holder of the EVSE on the right side by pushing the button on the holder.
- For untethered (socket) version: Plug in the Type 2 plug of the charging cable into the EVSE socket on the right side.
- As shown in Fig. 6-13, plug the charging connector into the AC charging socket of the EV, and the LED of the charging station lights yellow.
- For the mode of “Plug and play” charging station, the charging process will start automatically after plug in.

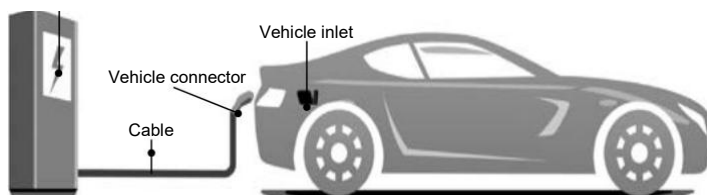


Fig. 6-13 Plug into EV

- f) For the mode of “swipe card” or “scan QR code” charging station, follow the instructions on the LCD screen after charging connector plug in, you can start charging process by swipe RFID card or scan QR code.

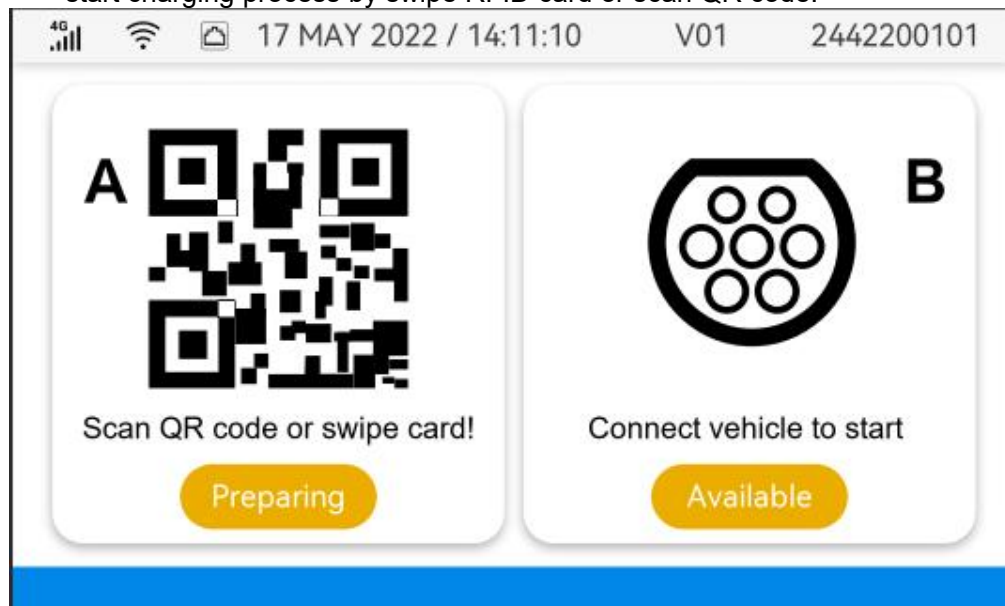


Fig. 6-14 Display of LCD screen after plug in

4.10 Normally stop charging

- a) The charging station will automatically stop when the electric vehicle is fully charged.
- b) For the mode of “plug-and-charge” charging station, you can manually stop charging as follow: press the unlock button of the remote key of the EV, the vehicle will stop charging (requires the support of the EV); if the charging does not stop, you may try to unplug the charging connector directly. When “Charging” indicator turns off, the charging process is end.
For the mode of “swipe card” charging station, swipe your RFID card again,

when “Charging” indicator turns off, the charging process is end.

- c) For the mode of “Scan QR code” charging station, click the stop button on your APP, the charging will stop.
- d) When the charging is end, please unplug the charging connector and plug back to the empty socket of charging station.

4.11 Abnormally stop charging

- a) Forced fault stop: A fault stop initiated by the onboard charger of vehicle.
- b) Automatic fault stop: A fault stop initiated by the charging station.

5 FAULT HANDLING AND MAINTENANCE

5.1 Fault Handling

The charging station is automatically protected in the event of the fault. The fault information and handling methods are as follows.

Fault information	LCD Show	Handling method
LCD is off	● None	● Check whether the power supply and distribution are normal; ● Check whether the branch breaker is tripped, and close the breaker after troubleshooting; ● Check whether the connection is correct, if the cable comes off, should be properly connected to tighten the cable.
CP failure	● EV Communication Error	● Check that the adapter is properly connected to the electric vehicle, pull and plug the adapter and try charging again
Emergency stop	● E-stop	● Check if EVSE is working properly and release emergency stop button by turning it around.

Fault information	LCD Show	Handling method
Under voltage fault	● Under Voltage	● Check that the input cable is reliably connected, that the parent grid is properly connected, and that the grid voltage is abnormal.
Over voltage fault	● Over Voltage	● Check whether the input cable is connected correctly; Whether the grid voltage is abnormal.
Over temperature fault	● High Temperature	● Check whether the charging station is covered or installed in a high temperature environment.
Meter failure	● Power Meter Failure	● Power off and restart the device
Leakage fault	● Over DC 6MA	● Check whether the charging adapter and its cable are damaged or wet. Recover after pulling out the adapter.
Over current fault	● Over Current Failure	● Check whether the charging adapter is correctly connected to the car, and check whether the on-board charger is normal
No diode at vehicle end	● EV Communication Error	● This car is not up to standard and cannot be recharged
Relay sticking fault	● Power Switch Failure	● The device is damaged and needs to be returned to the factory for repair
Ground fault	● Ground Failure	● The charging pile is not grounded, so the circuit needs to be tested

5.2 Maintenance

To ensure the long-term stable operation of the equipment, please maintain the equipment regularly (usually every month) according to the operating environment.

- The equipment is maintained by professionals.
- Check whether the equipment is well grounded and safe.
- Check whether there are potential safety hazards around the charging pile, such as whether there are high temperature, corrosion or inflammable and explosive articles close to the charging station.
- Check whether the join point of the input terminal is in good contact and whether there is any abnormality. Check whether other terminal points are loose.



We hereby declare, that this device carries the CE mark in accordance with the regulations and standards. It

conforms with the fundamental requirements of the RED

Directive 2014/53/EU. EMC Directive 2014/30/EU, and the Low Voltage

Directive 2014/35/EU. The full text of the EU declaration of conformity

is available at the following internet address: www.ying-power.com

NOTE ON ENVIRONMENTAL PROTECTION



After the implementation of the European Directive 2012/19/EU in the national legal system, the following applies:

Electrical and electronic devices may not be disposed of with domestic waste. Consumers are obliged by law to return electrical and electronic devices at the end of their service lives to the public collecting points set up for this purpose or point of sale. Details of this are defined by the national law of the respective country. This symbol on the product, the instruction manual or the package indicates that a product is subject to these regulations. By recycling, reusing the materials or other forms of utilising old devices, you are making an important contribution to protecting our environment.