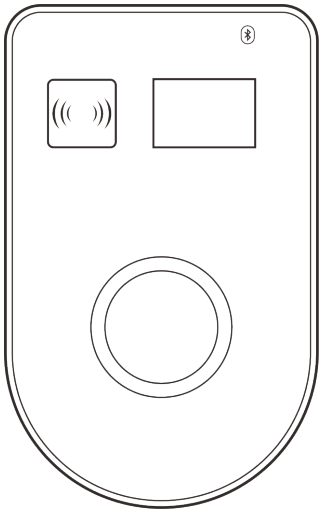
Zecomex

Home EV Wallbox

Y1 Y2 Y3
L1 L2 L3

User manual



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Warranty

ZECONEX LTD(Hereinafter“ZECONEX”) 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. ZECONEX 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 ZECONEX for failure detection. ZECONEX gives response within a reasonable time of 48 hours. ZECONEX shall analyze the fault reason and provide technical instruction for customer to repair products.

Customer repairs products and applies for free spare parts from ZECONEX 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 ZECONEX for verification. ZECONEX shall not accept the claim if modifications or reworking have been performed to products without ZECONEX 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 ZECONEX. The faulted parts after repair and test can be treated as spare part to customer.

No local service is provided for free and ZECONEX 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, ZECONEX provides no other warranty, whether express or implied. The warranty applies only to products which are supplied by ZECONEX 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

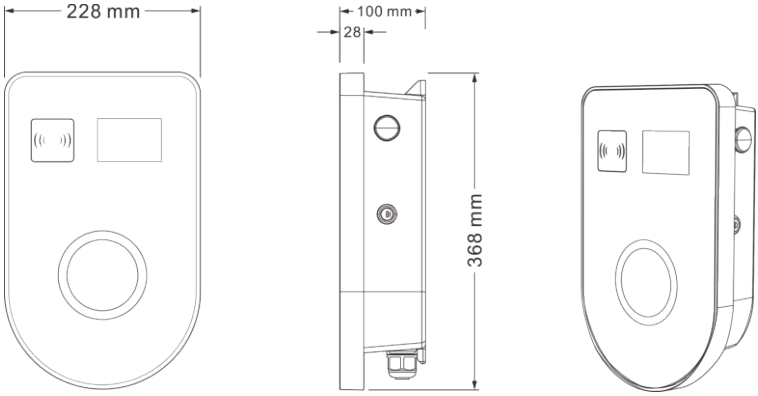
2.1 Product Technical Specifications Y Series

Model	ZECO7K-Y1	ZECO11K-Y2	ZECO22K-Y3
Technical features			
Charging capacity	Up to 7KW	Up to 11KW	Up to 22KW
Input/Output power	230VAC±20%-50Hz-32A-1phase	400VAC±20%-50Hz-16A-3phase	400VAC±20%-50Hz-32A-3phase
RCD	30Ma RCD Type A and DC 6Ma RCD function		
Standby power	<3W		
Measuring accuracy	1%		
Communication	WIFI APP		
User interface	LED/LCD (3.5') / RFID (Mifare ISO & IEC 14443A)		
Certificate	CE / EN/ IEC 61851 - 1:2019, EN/IEC 61851-21-2:2018,IEC 62955:2018		
Charging Interface	Type 2 cable 5M	Type 2 cable 5M	Type 2 cable 5M
Special Protection	Over current protection, Residual current protection, Ground protection, Surge protection, Over/Under voltage protection, Over/Under temperature protection		
Physical properties			
Warranty	2 years		
Protection	IP54, IK10		
Enclosure	Plastic PC940/ Galvanized steel		
Front Panel	Temper glass		
Special Protection	Over current protection, Residual current protection, Ground protection, Surge protection, Over/Under voltage protection, Over/Under temperature protection		
Installation	Wall-mount/Pole-mount		
Cooling	Natural cooling		
Operating temperature	-30℃ to +55℃		
Humidity	Max.95% (non-regulating)		
Product Dimensions	320*230*100 (L*W*H) mm		
Package Dimension	462*302*248 (L*W*H) mm		
Net Weight	4.5Kg	5.5Kg	5.8Kg
Gross Weight	5.5Kg	6.2Kg	6.5Kg

2.1 Product Technical Specifications L Series

Model	ZECO32A-L1	ZECO40A-L2	ZECO48A-L3
Technical features			
Charging capacity	Up to 7.5KW	Up to 9.6KW	Up to 11.5KW
Input/Output power	240VAC-60Hz-32A-1phase	240VAC-60Hz-40A-1phase	240VAC-60Hz-48A-1phase
RCD	30Ma RCD Type A and DC 6Ma RCD function		
Standby power	<3W		
Measuring accuracy	1%		
Communication	WIFI APP		
User interface	LED/LCD (3.5') / RFID (Mifare ISO & IEC 14443A)		
Input Plug	NEMA 14-50(Optional)		
Certificate	NEC 625, SAE J1772, UL 817, UL 991, UL 2231, UL 225, and UL 2594.		
Charging Interface	SAE J1772 32A 5M	SAE J1772 40A 5M	SAE J1772 48A 5M
Special Protection	Over current protection, Residual current protection, Ground protection, Surge protection, Over/Under voltage protection, Over/Under temperature protection		
Physical properties			
Warranty	2 years		
Protection	IP54, IK10		
Enclosure	Plastic PC940 / Galvanized steel		
Front Panel	Temper glass		
Special Protection	Over current protection, Residual current protection, Ground protection, Surge protection, Over/Under voltage protection, Over/Under temperature protection		
Installation	Wall-mount/Pole-mount		
Cooling	Natural cooling		
Operating temperature	-30°C to +55°C		
Humidity	Max.95% (non-regulating)		
Product Dimensions	320*230*100 (L*W*H) mm		
Package Dimension	465*325*270 (L*W*H) mm		
Net Weight	5.5Kg	5.8Kg	7Kg
Gross Weight	6.2Kg	6.5Kg	7.5Kg

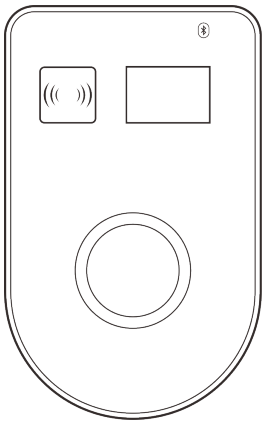
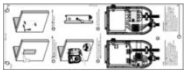
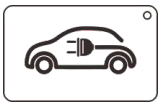
2.2 External Structure



2.3 Package Contents

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

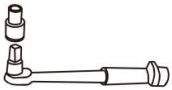
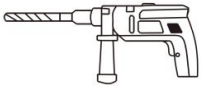
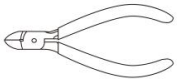
- Visual inspection on charger's external appearance. If there is any breakage or other damage, please notify the seller immediately.
- Check type and quantity of all accessories as follows. If there is a shortage in the quantity of any item or if any items are missing, please contact the seller at once.

				
	User Manual (x1)	φ6 Expansion Pipe (x6)	M4*40 Screw (x6)	Installation cardboard (x1)
				
Wallbox (x1)	The holder (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	Single-phase or three-phase power supply cable	Depend on actual requirement

3.2 Installation Process

1) Installation Notice

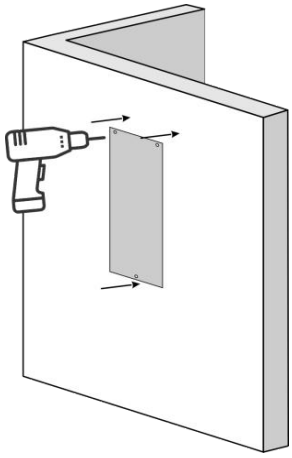
- Electrical devices should only be installed, operated, and maintained by qualified personnel. No responsibility is assumed by the manufacturer for any consequences arising out of the use of this device. A qualified person is one who has certified skills and knowledge related to the construction, installation 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

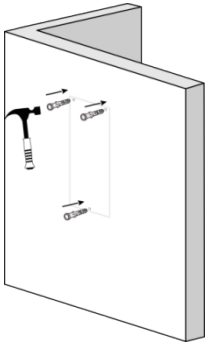
- Ensure the charger's location allows good operational access for normal use and repair & maintenance.
- The AC input components within the premise's power supply are correctly fitted with required protection items prior to installation of the charger.

3) Installation Procedure

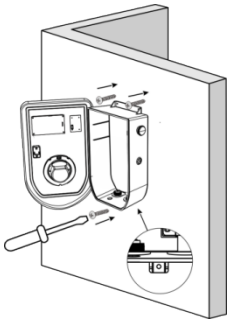
1. Please use a percussion drill to drill holes according to the cardboard positioning



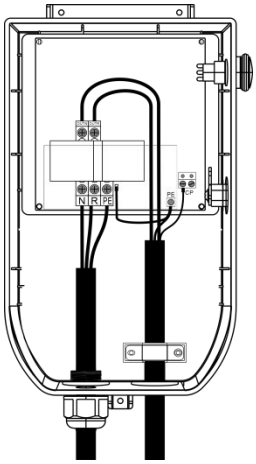
2. Install expansion bolts(3*M6*60MM)



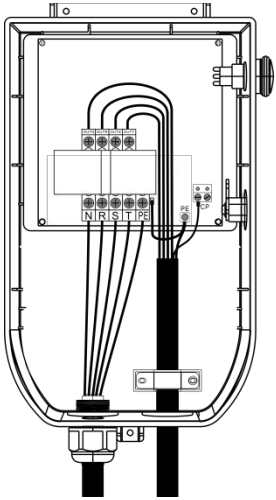
3. Open the cover with the key, fix the charging station with self=tapping screws (3*M5*50mm)



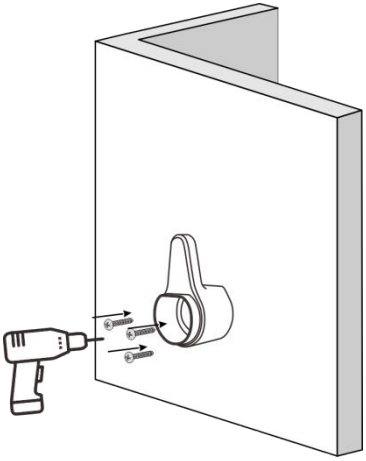
4. Use a cable with a size of 3*6mm²/10AWG(Y1/L1 32A) 3*9AWG(L2 40A),3*8AWG (L3 48A)to connect to the input terminal of the charging station, from left to right, R S T N and PE wire, and then tighten the screw with a screwdriver.



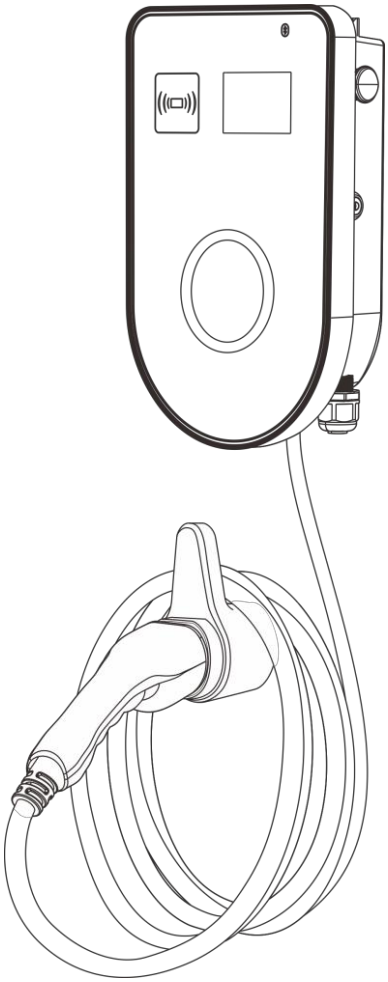
5. Use a cable with a size of 5*4mm²(Y2)or 5*6mm²(Y3) to connect to the input terminal of the charging station, from left to right, R S T N and PE wire, and then tighten the screw with a screwdriver.



6. Fix the hook on the wall with screws (3*M5*50mm)



7. Lock the cover and start to test and charge



4 Configuration and Operation

4.1 Power-on Checking

Please check / re-check the following items prior to initial Power-on :

- The charger's location allows good operational access to normal use and repair & maintenance.
- The AC input components within the premise's power supply are fitted correctly with required protection items prior to installation of the charger.
- Double confirm the charger is installed properly.
- No components or other items have been left on the top of the charger.

4.2 Start and stop charging station Charger station by your charge card

Start charging

1. Plug charging cable into your car and LED ring turns yellow.
2. Hold your charge card (RFID Card) in front of the reader, marked with icon waiting 3 seconds.
3. Charger station reacts with a beep, LED ring turns green (Breathing state) when it starts charging.

Stop charging

1. Hold your charge card (RFID Card) in front of the reader, marked with icon waiting 3 seconds.
2. the charger station reacts with a beep, LED ring turns green when it stops charging.
3. Unplug charging cable from your car and place the charging cable back into charger station cable holder.

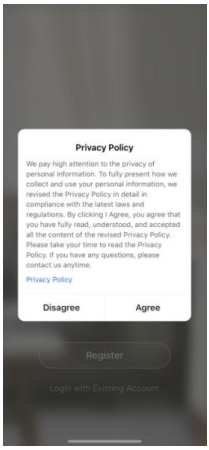
4.3 Start and stop charging station by APP

Step1-Download the APP"Tuya Smart "from APP store or Google play

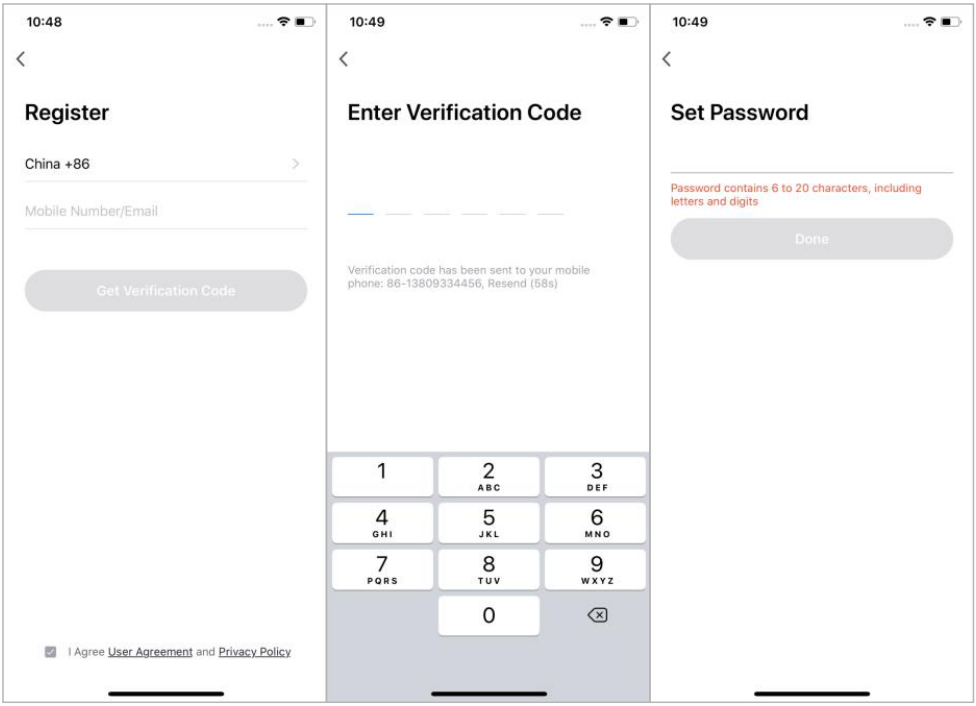
App Store

Google Play

Step2-Registering Click "Register"and read the Privacy Policy after it pops up. Click "Agree" and enter the registration page



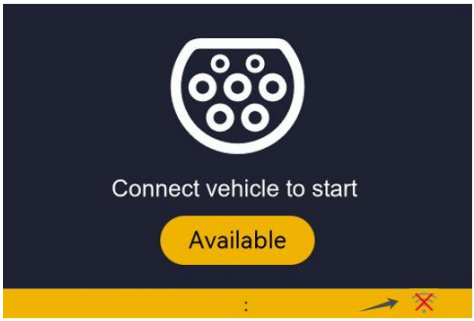
Step3-Registering/Logging in/Forgetting Password



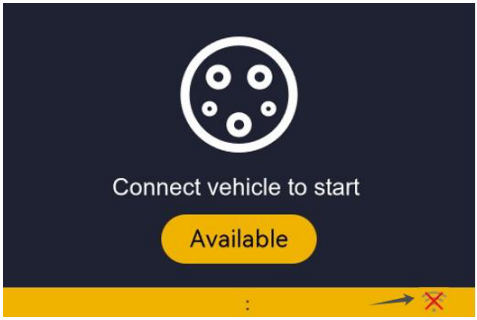
Note:
2.Use your email address or mobile number to register. The country/region of the app will be the same as the phone's. You can also change it when registering. (You cannot change the country/region after registration). Enter your mobile number/email and click “Get Verification Code.

Note:
3. Enter the verification code and go to the password setting page. Set your password as required and click “Done"

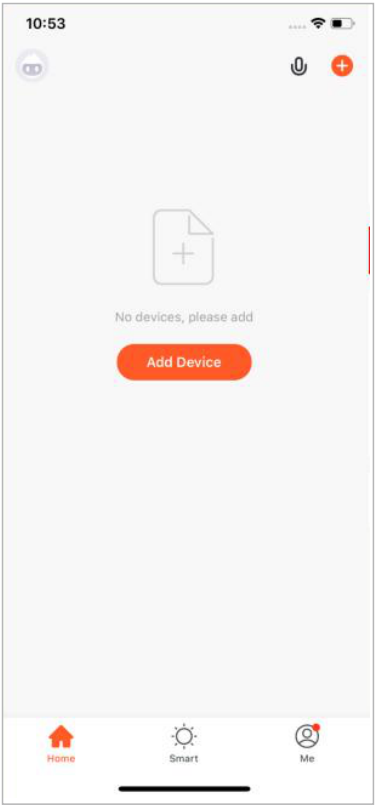
Step3-Registering/Logging in/Forgetting Password

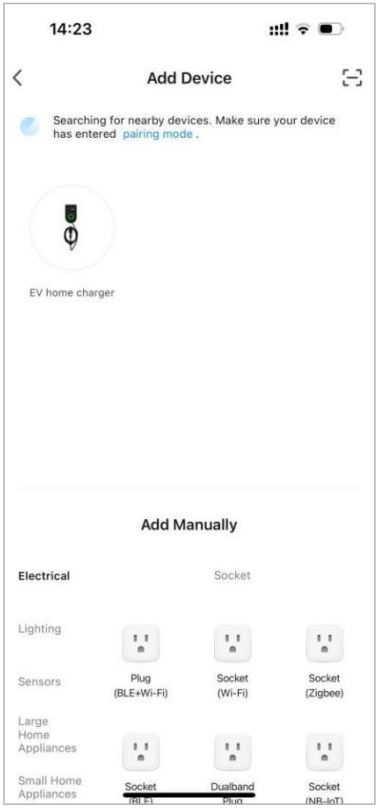


Y1/Y2/Y3

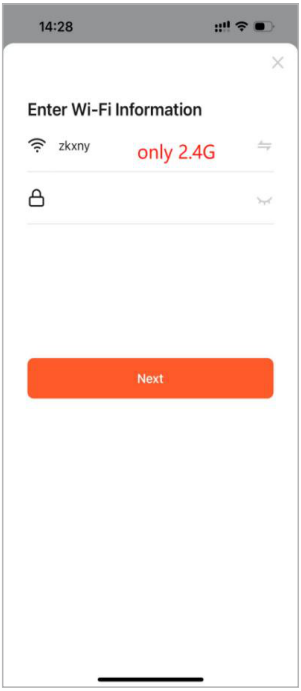


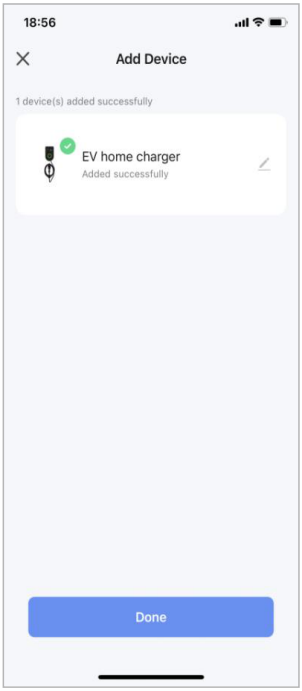
L1/L2/L3

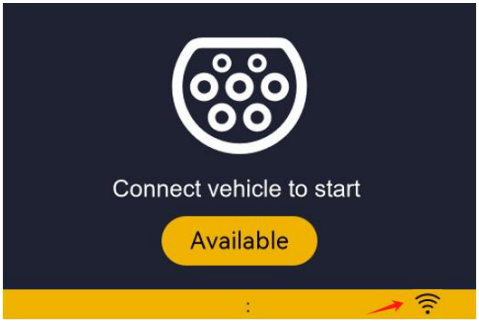




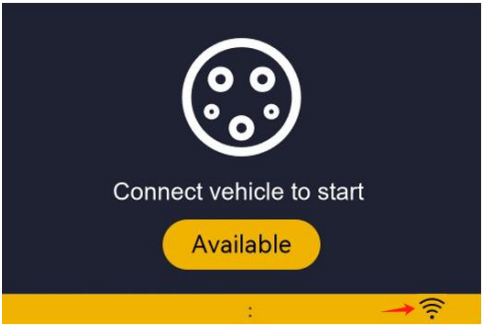
Step5-Connecting to Wi-Fi







Y1/Y2/Y3



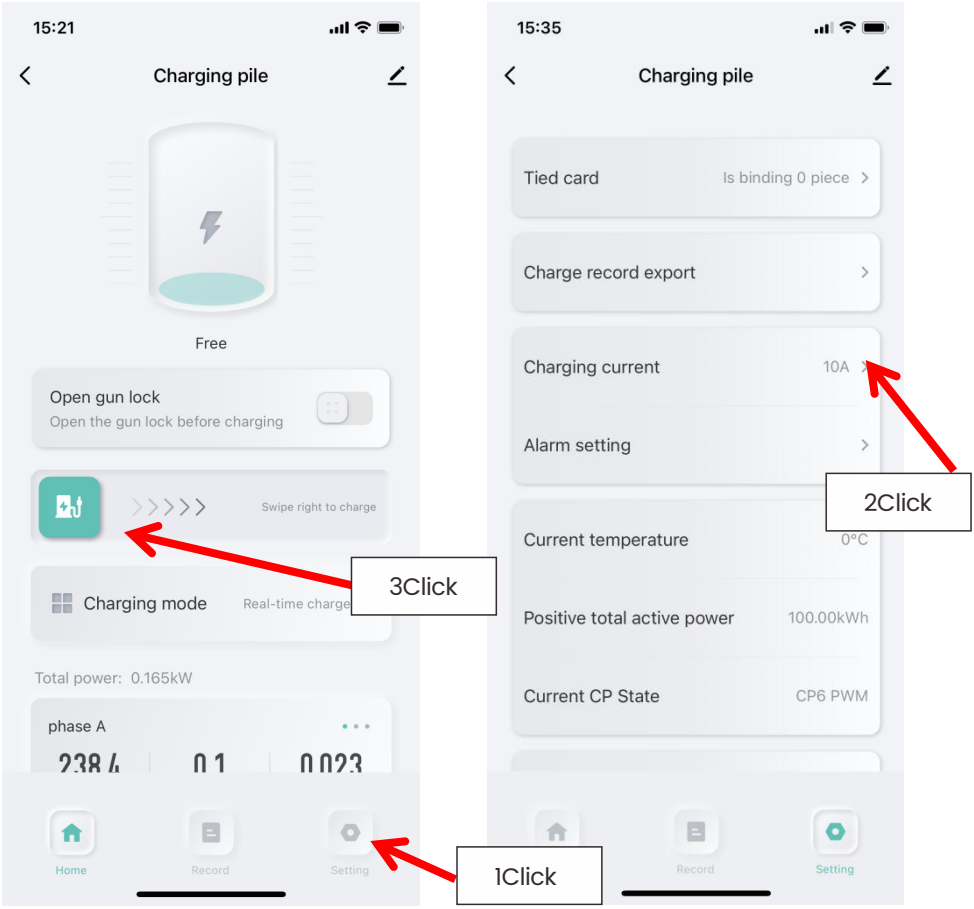
L1/L2/L3

Note:

you will go to the page where you need to enter your Wi-Fi password. (Only 2.4G Wi-Fi can be supported.

If the WiFi connection is successful, the WiFi icon on the display screen will display normally

Step6-Start charging by Real-time charge



Note:
1. Click the setting button and set charging current
   (Y1/Y2/Y3 and L1 Max current is 32A)
   (L2 Max current is 40A)
   (L3 Max current is 48A)
2. Swipe right to start charging,

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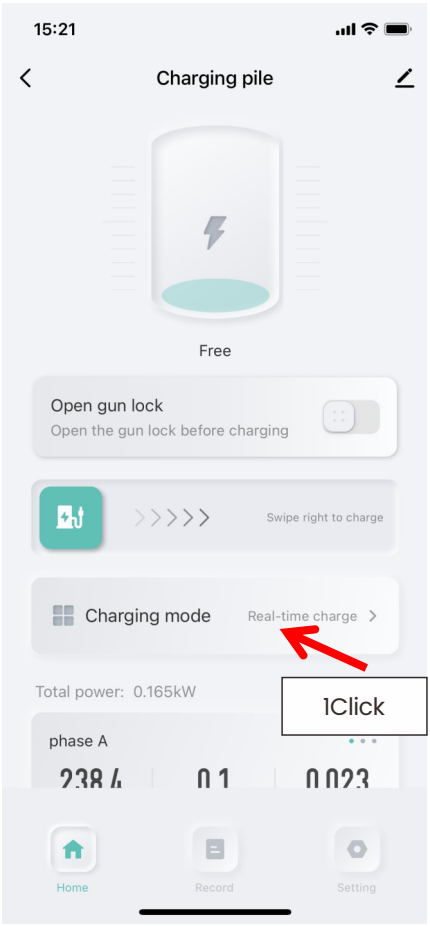
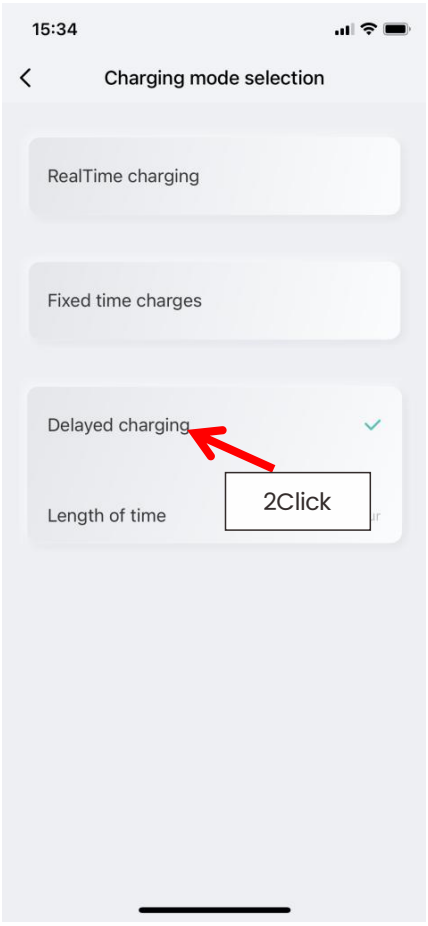
Step6-Start charging by Real-time charge





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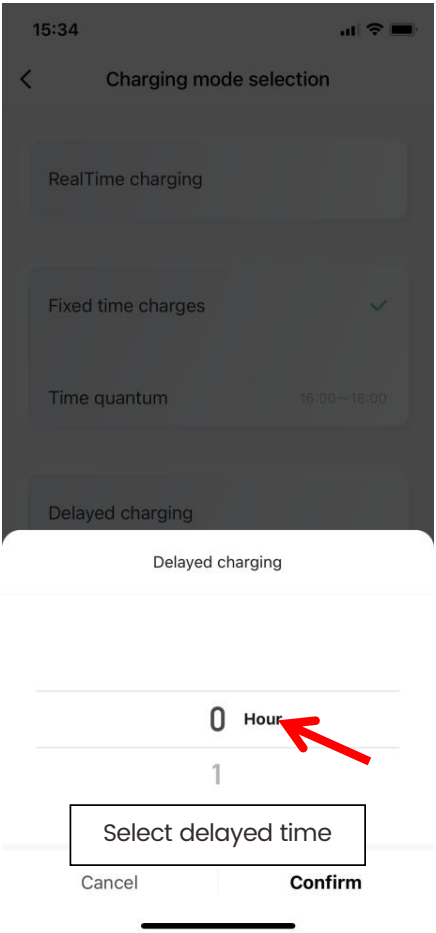

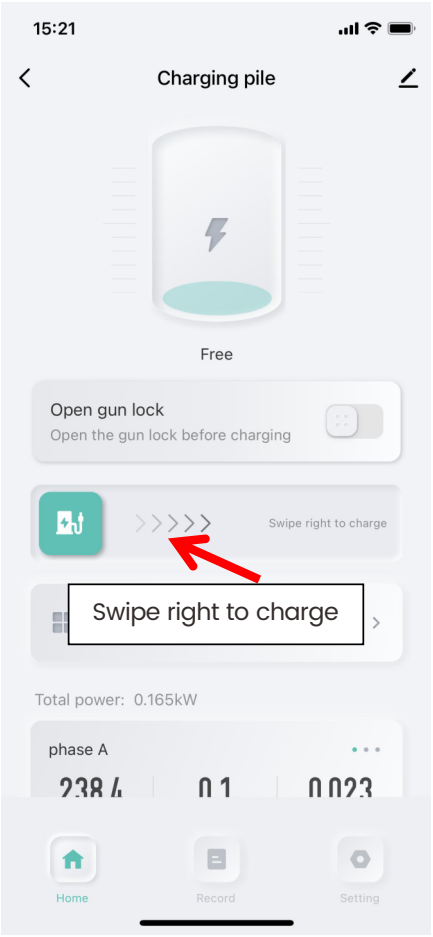

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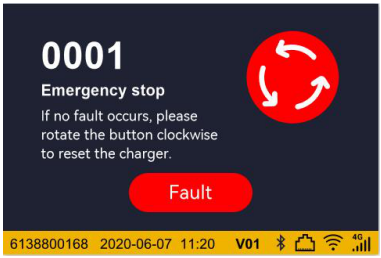
6 Troubleshooting

6.1 Indicator Status

What you see	What it means	What to do
LED ring off or green	Charger station is ready for use.	Plug Charger station charging cable into the car
LED ring yellow	Charger stationcharging cable connected the car successfully	Hold your charge card (RFID Card) in front of the reader
LED ring green breathing	Charger station is charging the car	The car is charging.
LED ring green	The car is fully charged.	Unplug charging cable from your car and place the charging cable back into Charger station cable holder.
LED ring red	Charger station is experiencing an error	Check the troubleshooting chapter in this manual for solutions.

6.2 Fault Code and Resolution (LCD display)



Display indication

When a problem occurs, error messages are often shown on the display. With this information you can quickly identify and investigate the problem.

6.3 Fault Code and Resolution (LED display)

Display indication

When a problem occurs, error messages are often shown on the display. With this information you can quickly identify and investigate the problem.

Fault number	LCD Show	Handling method
0001	Emergency stop	If no fault occurs, please rotate the button clockwise to re set the charger.
0002	Over Voltage	Voltage has risen above an acceptable leve
0003	Under Voltage	Voltage has dropped below an acceptable level.
0004	Over Current	Over current protection device has tripped
0005	Over DC 6MA	Over leakage current protection device has tripped.
0006	Grond Failure	Ground fault circuit interrupter has been activated.
0007	Ecmu Error	Ecmu model self- check failure
0008	CP short	CE and PE short
0009	Relay Failure	Failure with Power relay
0010	Socket Lock Failure	Failure to lock or unlock socket connector
0011	Reader Failure	Failure with id Tag reader
0012	Weak Signal	Wireless communication device reports a weak signa
0013	Meter Failure	Failure to read power meter.
0014	HighTemperature	Temperature inside Charge Point is too high.
0015	Other Error	Other type of error. More information in vendor Error Code