



ATESS NOVO EVA-07/09/12S-PU

Single-phase AC Charging station

User Manual

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Disclaimer

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Thank you for choosing ATESS !

EVA series intelligent single phase AC charger is a power supply device that uses professional and advanced technology to provide energy supply to electric vehicles, it also has friendly man-machine interface and versatile functions of control, billing, and communication. The charger can be connected to a back-office server to realize the functions of reservation and payment via Mobile phone APP. Diversified communication options, including wired Ethernet, WIFI, 4G is available for back-office server connection.

We sincerely hope that this product can meet your needs, and we welcome and value your feedback and suggestions on the performance and function of the product. We will continuously improve the quality of our products and services.

"IMPORTANT SAFETY INSTRUCTIONS" and "SAVE THESE INSTRUCTIONS".

INSTRUCTIONS IMPORTANTES CONCERNANT LA SÉCURITÉ CONSERVER CES INSTRUCTIONS.

INSTRUCTIONS PERTAINING TO A RISK OF FIRE OR ELECTRIC SHOCK.

INSTRUCTIONS AYANT TRAIT À UN RISQUED'INCENDIE OU DE CHOC ÉLECTRIQUE For use with Electric Vehicles.

Pour utilisation avec des véhicules électriques.

Ventilation Not Required.

Aucune ventilation requise.

WARNING: To avoid a risk of fire or electric shock, do not use this device with an extension cord.

AVERTISSEMENT: Pour réduire le risque de choc électrique ou d'incendie, ne pas utiliser de rallonge avec cet appareil.

CAUTION: Do not use this product if there is any damage to the unit.

ATTENTION: Ne pas utiliser ce produit si l'appareil est endommagé.

CAUTION: "Risk of electric shock. Do not remove cover or attempt to open the enclosure. No user serviceable parts inside. Refer servicing to qualified service personnel."

ATTENTION: Risque de choc électrique. Ne pas retirer le couvercle ni essayer d'ouvrir le boîtier. Aucune pièce interne réparable par l'utilisateur. Confier tout travail d'entretien ou de réparation à un technicien qualifié.

WARNING: "Risk of explosion. This equipment has arcing or sparking parts that should not be exposed to flammable vapors. This equipment should be located at least 460 mm (18 inches) above the floor."

AVERTISSEMENT: Risque d'explosion. L'appareil comporte des pièces pouvant produire des arcs électriques ou des étincelles qui ne devraient pas être exposées aux vapeurs inflammables. Cet appareil devrait être installé à au moins 460 mm (18 pouces) au-dessus du plancher.

WARNING: "This device is intended only for charging vehicles not requiring ventilation during charging."

AVERTISSEMENT: Ce dispositif est destiné au chargement des véhicules ne nécessitant pas de ventilation au cours du chargement.

automatic reset feature is provided.

AVERTISSEMENT: Caractéristique de réarmement automatique incluse.

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Safety Precautions

This document contains important safety information about your AC charger. Please keep this file for future reference.

Please read this document thoroughly before installing and using the ATESS AC charger. Failure to follow safety instructions may result in electric shock, fire, serious injury or death.



Check the charger cable and case regularly for damage. If the product is defective or damaged, suspend use and contact ATESS for advice.



Do not open, repair, tamper or modify the charger in any way without authorization.



We recommend that the charger installation, inspection, etc. be carried out by qualified electricians who have obtained relevant certificates, and the installation should comply with local wiring regulations to ensure safe use.



Ensure that the charger is in the working temperature. Do not touch the surface of the charger in high temperature environment to avoid burns.



Do not expose any part of the equipment or cable to strong force, impact, or sharp objects.



There may be power left within 5 minutes after the charger is powered off. Please ensure that it is completely disconnected before operating.

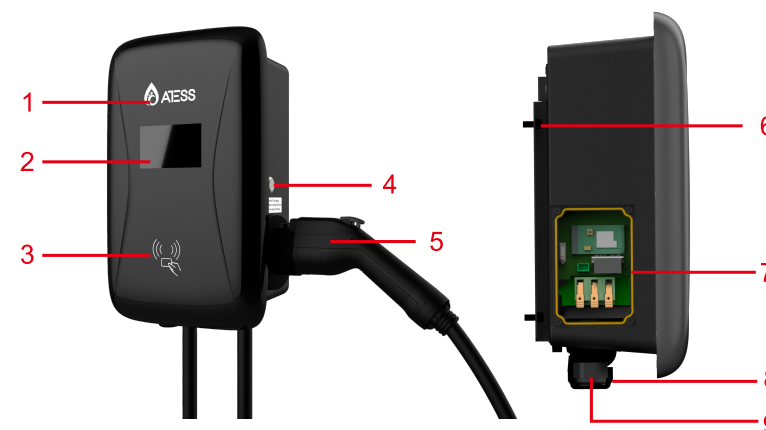


You can clean the surface of the charger with a soft, damp cloth without using solvents or abrasives. Power must be off before cleaning.



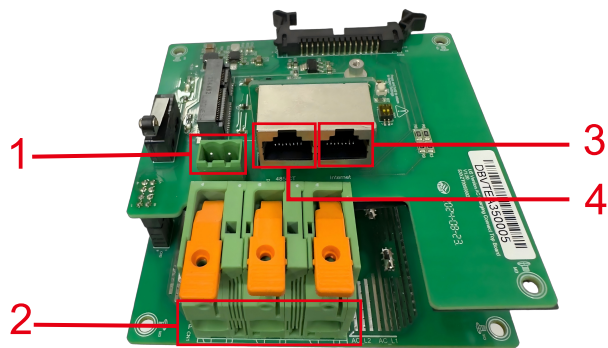
This symbol on products and accompanying items indicates that used electrical appliances and other products should not be mixed with general domestic waste. For proper handling, recovery and recycling, please take this product to the designated collection point for disposal.

Product Description 1



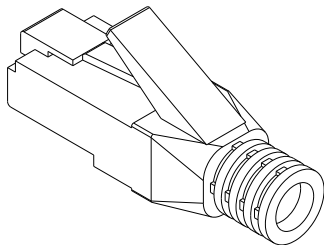
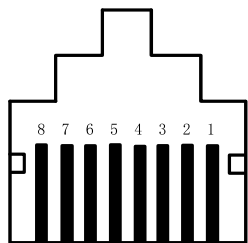
- 1.LOGO and status indicator
- 2.LCD display (For LCD charger version)
- 3.RFID ready (For RFID version)
- 4.Start or stop button
- 5.25 feet type1 plug
- 6.Mounting bracket
- 7.Side window and nameplate
- 8.Waterproof cable gland for AC input cables
- 9.Waterproof cable gland for communication wires

Wiring definition in the side window



- 1. Peak&Off Peak Charging Enable signal is: eSense L1/L2
- 2. AC input terminals. Terminal definition is: PE/L2/L1
- 3. Ethernet input
- 4. 485(meter)/CT sampling

CT/485 sampling

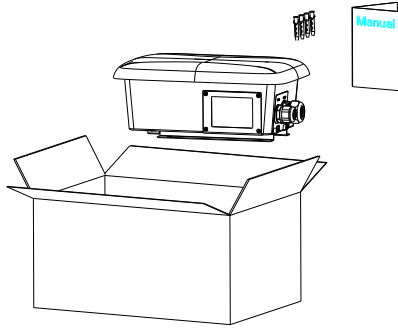


No.	Name	Qty	Remark
1	Charger	1	
2	User manual	1	
3	Quality certificate	1	
4	Mounting bracket	1	
5	Cable holder	1	
6	ST6.3X40 Stainless steel hex-head self-drilling screws	7	
7	12X46 Plastic expansion plugs	7	
8	User card	1	RFID function will be equipped with user card

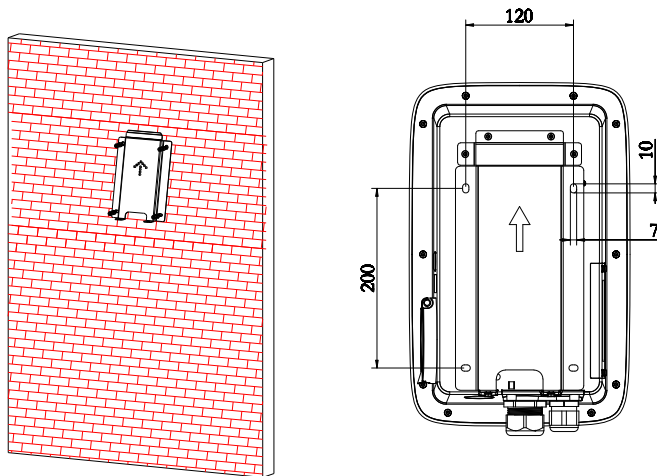
3 Installation and Wiring

3.1 Mount on a wall

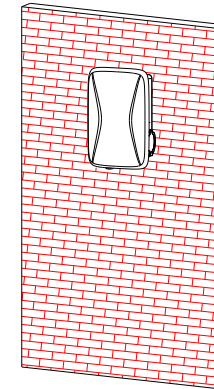
3.1.1 Open the packaging, you'll see a charge point, a mounting bracket, a user manual and a bag of mounting accessories. There is also an RFID card if the charge point is RFID version. For cabled version, a cable holder is also included inside.



3.1.2 Remove the mounting bracket from the charge point, use it as a template to mark the position of the drill holes. Drill the holes and hammer the expansion bolts in the accessories bag into the holes. Then fix the mounting bracket onto the wall.

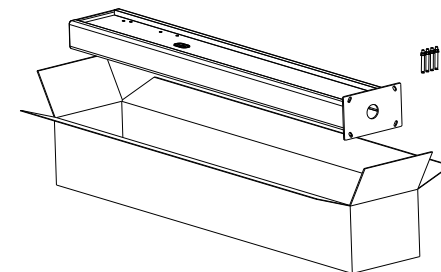


3.1.3 Put the charge point onto the bracket, and fix it with the 2 screws at the bottom of the charge point. The installation is done.

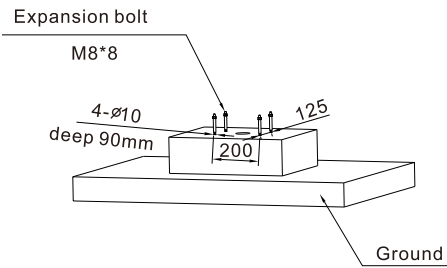


3.2 Mount on a pole

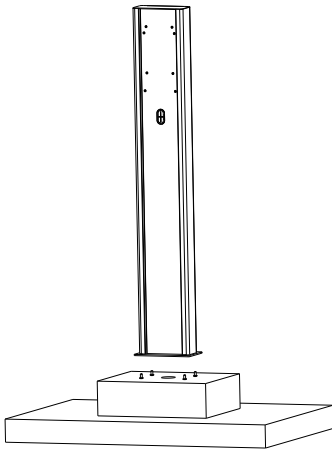
3.2.1 Open the packaging of the pole, take out the pole and mounting accessories.



3.2.2 The pole must be installed on a hard surface, concrete surface is recommended, it can also be mounted on a solid ground. Drill holes according to the requirements marked on the illustration for fixing expansion bolts.

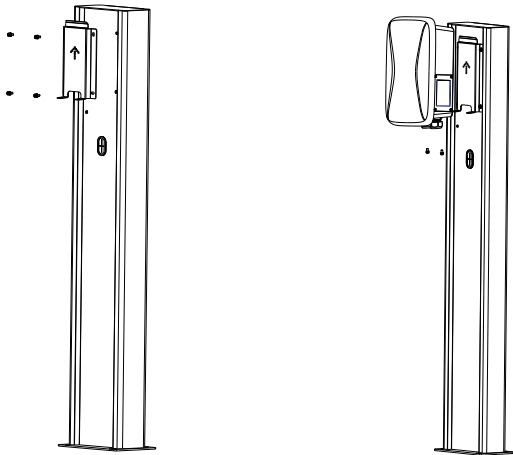


3.2.3 Fix the pole onto the holes with expansion bolts. The input cables shall go into the pole from the bottom middle area and come out of it from the area below the cable holder.



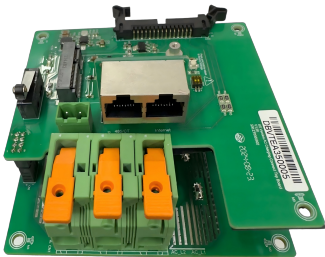
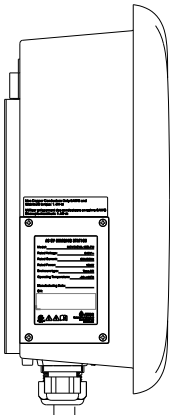
3.2.4 Fix the mounting bracket onto the pole.

3.2.5 Position the charge point onto the bracket and secure it on the bracket with the 2 screws.



3.2.6 Crimp the below shown insulated ferrule or ring terminals on the end of the AC input wires. Connect the wires into the terminal block of the charge point as below. Close the side window with the cover, then the wiring is done.

In Canada, a power supply that is intended to be fixed in place to a structure and is provided with a supply cord in accordance with 12.1.1.1 shall be marked with the following or equivalent: “THE SUITABILITY OF THE USE OF FLEXIBLE CORD IN ACCORDANCE WITH CE CODE, PART I, RULE 4-012, IS TO BE DETERMINED BY THE LOCAL INSPECTION AUTHORITY HAVING JURISDICTION” C’EST À L’AUTORITÉ LOCALE COMPÉTENTE EN MATIÈRE D’INSPECTION QU’INCOMBE DE DÉTERMINER SI UN CORDON SOUPLE PEUT ÊTRE UTILISÉ CONFORMÉMENT À L’ARTICLE 4-012 DU CcÉ, PREMIÈRE PARTIE.



	Model	L1	L2	PE
Terminal	7K			
	9K			
	12K			
Wire	7K	≥AWG10	≥AWG10	≥AWG10
	9K	≥AWG9	≥AWG9	≥AWG9
	12K	≥AWG8	≥AWG8	≥AWG8

Note:

1. Only professional personnel can do the wiring, connect the AC input wires in correct phase order according to the markings on the terminal block;
2. The PE terminal shall be connected to the Earth firmly and reliably;
3. We recommend installing at least Type A 30mA of circuit breakers upstream of the charger;
4. No live work! Turn off the upstream breaker in the distribution panel and the breaker inside the charging equipment before repairing or maintaining.
5. Please do not disassemble the unit unless authorized!

4 Parameter Setting

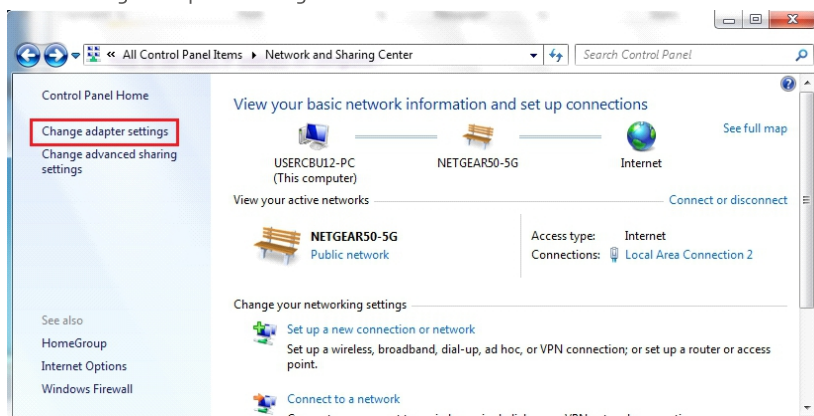
After the installation and wiring is done, connect the Charger to a computer and configure parameters via the web browser of the computer, then the Charger can be ready for use.

4.1 Set computer's IP

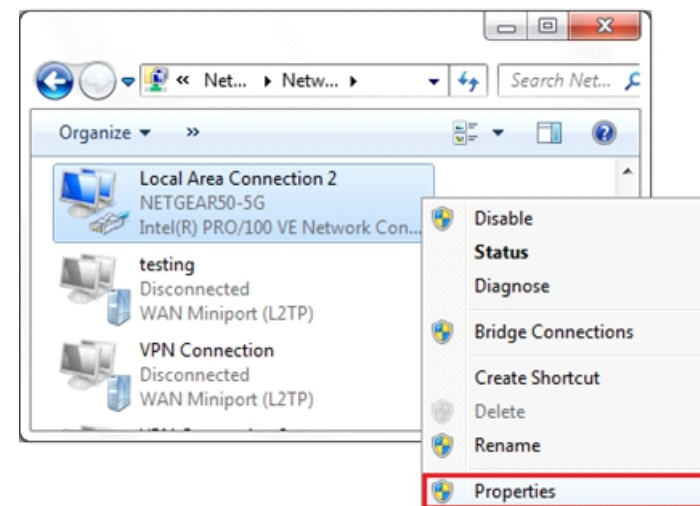
The Charger's default IP address is 192.168.1.5. To access the parameter setting interface, you'll need to first set the computer's IP to 192.168.1.x(x can be any value between 1 and 255 except for 5, e.g. 192.168.1.10).

To set a static IP on your computer:

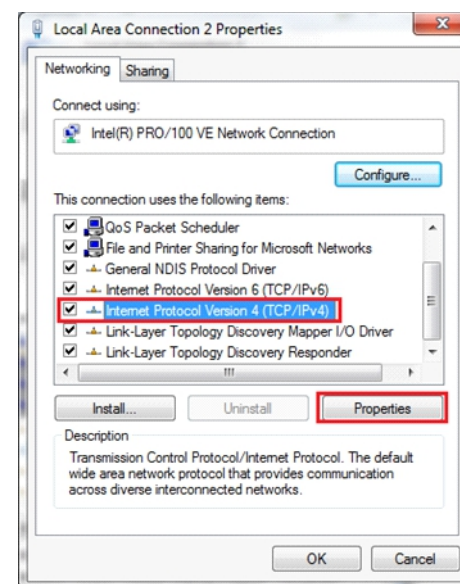
1. Click Start Menu > Control Panel > Network and Sharing Center. (For Windows 8 and higher, search for and open Control Panel and select Network and Internet).
2. Click Change adapter settings.



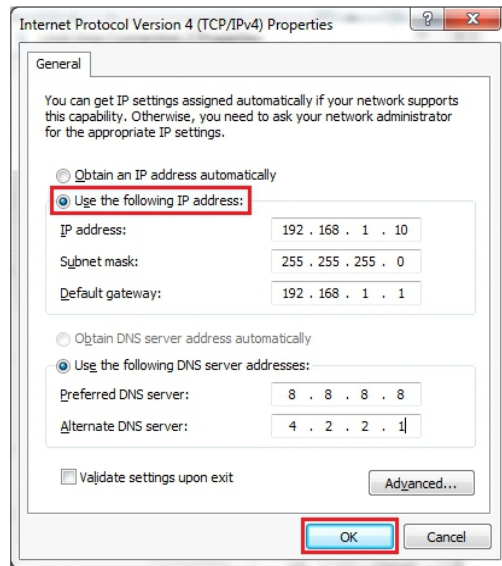
3. Right-click on Local Area Connection and click on Properties.



4. Select Internet Protocol Version 4 (TCP/IPv4) and click on Properties.



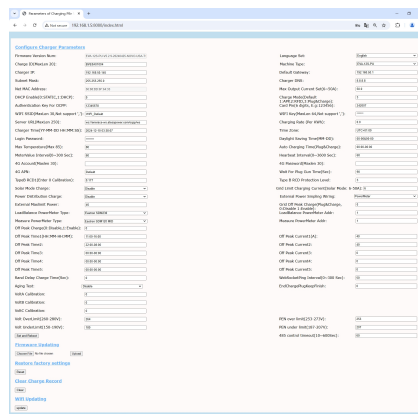
5. Select "Use the following IP address" and enter the IP address, Subnet Mask, Default Gateway. Click OK and close the Local Area Connection properties window.



4.2 Configure parameters

Connect the charger to a computer via a network cable. Open the web browser and type in `http://192.168.1.5:8080/` in the address field and click enter, then the setting page of the charger will open up.

Parameter setting can only be done via web browser on a computer. It is suggested to use IE or Firefox, other browser might have compatibility problem.



Overview of Parameter setting page

Explanation of parameters:

(1) Firmware version of the Charger. This item cannot be modified here on the setting page.



Fig.1

(2) **Charger ID**, this is the unique identification of the Charger. If the charger is to be connected to ATESS back-office server, this ID must be set as the serial number on the nameplate of the Charger. Otherwise the Charger cannot be registered on the server.



Fig.2

(3) **Charger IP.** The default IP is 192.168.1.5. It is not suggested to change the default IP. If you have changed the default IP and forgot the new IP, you can reset the charger to factory setting by long press the reset button(the reset button on control board, not the red emergency stop button) until the charger reboot. Then you can use the default 192.168.1.5 for access.

Please note: After restoring the charger to factory setting, you'll need to reset the charger ID(same as serial number, can be found on the nameplate sticker) and server url, otherwise the charger won't be connected to the back-office server.

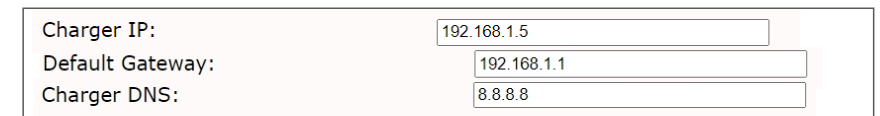


Fig.3

(4) Charger Subnet mask. The default value is 255.255.255.0. It is not suggested to change. If the subnet mask has been reset to other value and you have forgotten the new value, you can restore the charger to factory setting by long press the reset button.

DHCP Enable(0:STATIC,1:DHCP):	<input type="text" value="0"/>
Subnet Mask:	<input type="text" value="255.255.255.0"/>

Fig.4

(5) MAC address. This is the MAC address used for LAN cable connection. If the charger is connected to ATESS back-office server via LAN cable and the router has MAC access control, then you can put this MAC in the router to allow the charger to access server.

Net MAC Address:	<input type="text" value="50:88:38:FB:62:35"/>
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Fig.5

(6) Enable the DHCP mode to automatically assign IP addresses to routers and Connect to charger via network cable under internet connection.

DHCP Enable(0:STATIC,1:DHCP):	<input type="text" value="0"/>
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Fig.6

(7) The secret key to connect to the OCPP server for authentication.

Authentication Key For OCPP:	<input type="text" value="12345678"/>
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Fig.7

(8) WiFi SSID(wireless network name) and WiFi Key(WiFi password) is used for WiFi connection

WIFI SSID(MaxLen 30,Not support ','):	<input type="text" value="WIFI_Default"/>
WIFI Key(MaxLen 64,Not support ','):	<input type="password" value="*****"/>

Fig.8

(9) Server URL is to set the domain name or IP address of the back office server to be connected.

The domain name of ATESS server is "ws://enerace-ws.atesspower.com/ocpp/ws" ;
IP address is "ws://47.56.208.172:80/ocpp/ws" .
Heartbeat Interval is used for testing. No need change.

Heartbeat Interval(0~3600 Sec):	<input type="text" value="60"/>
---------------------------------	---------------------------------

Fig.9

(10) Time of the charger. Set according to the local time. After the charger is connected to back-office server, the time will be synchronized with the server's time. If the charger has no server connection, then you'll have to reset the time every time you turn off and back on the charger.

Charger Time(YY-MM-DD HH:MM:SS):	<input type="text" value="2024-12-10 03:38:07"/>
Time Zone:	<input type="text" value="UTC+00:00"/>

Fig.10

(11) The login password is used to set the login parameters for the web page. For the default password, please check the SN number on the charger nameplate. You can change your password after logging in.

Login Password:	*****
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Fig.11

(12) Over temperature protection value, not suggested to change.

Max Temperature(Max 85):	80
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Fig.12

(13) Interval for uploading metering data during charging, keep the default value.

MeterValue Interval(0~300 Sec):	60
---------------------------------	----

Fig.13

(14) 4G connection, when the 4G network cannot be connected, login SIM card APN and other information

4G Account(Maxlen 30):	
4G APN:	Default
4G Password(Maxlen 30):	

Fig.14

(15) DC residual current sampling value calibration. Enter 0 and press "Set and Reboot" to calibrate the DC RCD ring. Display real-time detection value of DC residual current. keep the default RCD level.

TypeB RCD1(Enter 0 Calibration):	0.70
Type B RCD Protection Level:	3

Fig.15

(16) For the charger with an integrated meter, set the meter model and address and keep the default value.

Measure PowerMeter Type:	Eastron SDM120 MID
Measure PowerMeter Addr:	1

Fig.16

(17) Set low electricity prices for charging time to reduce costs.

Off Peak Charge(0:Disable,1:Enable):	0
Off Peak Time1(HH:MM-HH:MM):	11:00-16:00
Off Peak Time2:	22:00-8:00
Off Peak Time3:	00:00-00:00
Off Peak Time4:	00:00-00:00
Off Peak Time5:	00:00-00:00
Off Peak Current1(A):	32
Off Peak Current2:	32
Off Peak Current3:	0
Off Peak Current4:	0
Off Peak Current5:	0

Fig.17

(18) Relieve the power grid pressure, authorized charging, after the set time to start.

Rand Delay Charge Time(Sec):	<input type="text" value="0"/>
-------------------------------------	--------------------------------

Fig.18

(19) Open the function, the user's home meter provides dry contact signal, identify the off-peak period, reduce the charge of electricity.

Grid Off Peak Charge(Plug&Charge, 0:Disable 1:Enable):	<input type="text" value="0"/>
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Fig.19

(20) Loadbalancing, sets the total power input of the home grid to avoid tripping.

Power Distribution Charge(0:Disable,1:Enable)	<input type="text" value="0"/>
External Maxlimit Power:	<input type="text" value="45"/>

Fig.20

(21) To set the working mode of solar, the ECO mode requires setting the KWH of electricity obtained from the grid.

Solar Mode Charge(0:Disable,1:ECO,2:ECO+):	<input type="text" value="0"/>
Grid Limit Charging Current(Solar Mode: 6-63A):	<input type="text" value="6"/>

Fig.21

(22) Set the load balancing or Solar function, sampling instrument type and address.

External Power Smpling Wiring(0:CT2000:1 1:PowerMeter)	<input type="text" value="0"/>
LoadBalance PowerMeter Type:	<input type="text" value="Eastron SDM230"/>
LoadBalance PowerMeter Addr:	<input type="text" value="1"/>

Fig.22

(23) Set the display language of the charger LCD.

Language Set:	<input type="text" value="English"/>
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Fig.23

(24) The charger model, can not be modified, factory default.

Machine Type:	<input type="text" value="EVA-12S-PU"/>
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Fig.24

(25) Set the output current of the charger to limit the output power of the charger.

Max Output Current Set(6~50A):	<input type="text" value="50.0"/>
---------------------------------------	-----------------------------------

Fig.25

(26) Charging mode setting. 1: APP/RFID mode; 2: RFID mode; 3: Plug&Charge mode.

Charge Mode(Default 1:APP,2:RFID,3:Plug&Charge):	<input type="text" value="3"/>
---	--------------------------------

Fig.26

(27) PIN of the charger, used to verify the PIN of user card. To use a RFID card with the charger, their PIN must be consistent. If the user card has a different PIN, then it cannot be used on this charger. The default PIN setting of the charger is 242007.

A form with a label "Card Pin(6 digits, E.g:123456):" and a text input field containing the value "242007".

Card Pin(6 digits, E.g:123456):	242007
---------------------------------	--------

Fig.27

(28) Set the tariff for charging energy.

A form with a label "Charging Rate (Per KWh):" and a text input field containing the value "1.0".

Charging Rate (Per KWh):	1.0
--------------------------	-----

Fig.28

(29) Set daylight saving time for the charger to switch automatically.

A form with a label "Daylight Saving Time(MM-DD):" and a text input field containing the value "00-00&00-00".

Daylight Saving Time(MM-DD):	00-00&00-00
------------------------------	-------------

Fig.29

(30) The time for automatic charging in Plug and charge mode.

A form with a label "Auto Charging Time(Plug&Charge):" and a text input field containing the value "00:00-00:00".

Auto Charging Time(Plug&Charge):	00:00-00:00
----------------------------------	-------------

Fig.30

(31) In any mode, after the authorized charger starts, wait for the time to connect the electric vehicle.

A form with a label "Wait For Plug Gun Time(Sec):" and a text input field containing the value "90".

Wait For Plug Gun Time(Sec):	90
------------------------------	----

Fig.31


(32) The communication interval between the charger and server,keep the default value.

A form with a label "Hearbeat Interval(0~3600 Sec):" and a text input field containing the value "60".

Hearbeat Interval(0~3600 Sec):	60
--------------------------------	----

Fig.32

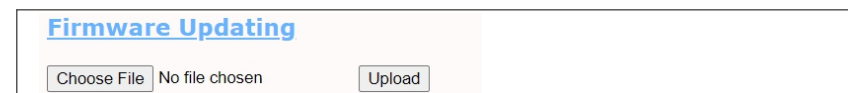
(33) After modifying any parameters, click "Set and Reboot" to take effect. Some parameters may cause the charger to automatically restart.

A form containing a single button labeled "Set and Reboot".

Set and Reboot

Fig.33

(34) Upgrade the firmware of the charger. After clicking upload, the charger will restart.

A form with a title "Firmware Updating" and two buttons: "Choose File" and "Upload". The text "No file chosen" is displayed between the buttons.

Firmware Updating	
Choose File	No file chosen
Upload	

Fig.34

(35) Restore the charger to factory Settings.

A form with a title "Restore factory settings" and a button labeled "Reset".

Restore factory settings
Reset

Fig.35

5 Operation instruction and LCD introduction



5.1 Charging mode and operation

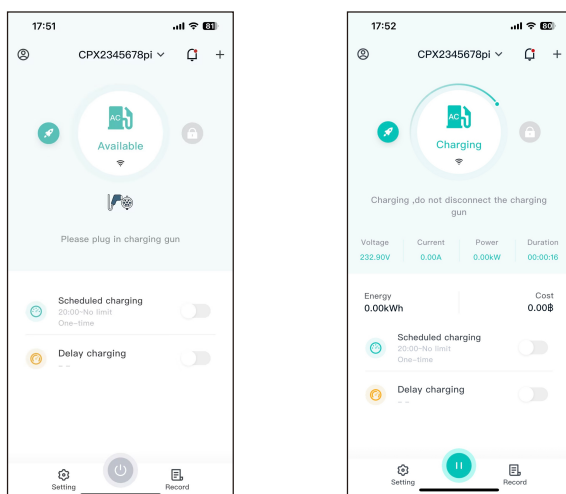
APP mode:

Initiate or cease charging by scanning QR code using APP or by swiping RFID card. You can also use APP for reservation and payment provided that the back-office server supports such functions.



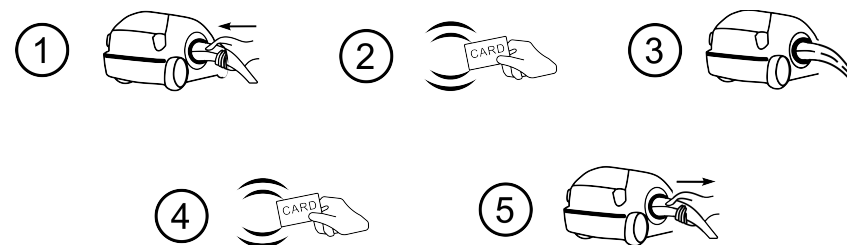
APP mode operation process flow

If you are using the ATESS APP, Charging can be started/stopped by pressing the "  /  " button on the APP.



RFID mode:

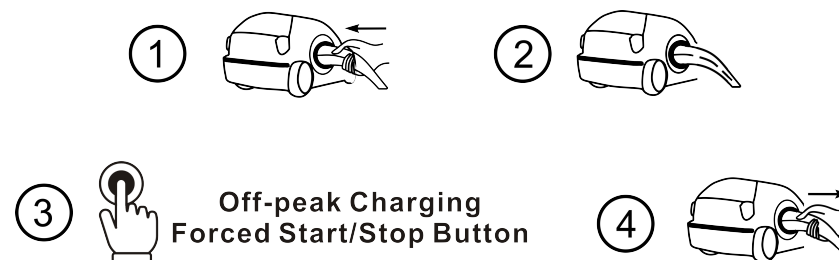
Charging can only be initiated or ceased by swiping RFID card.



RFID mode operation process flow

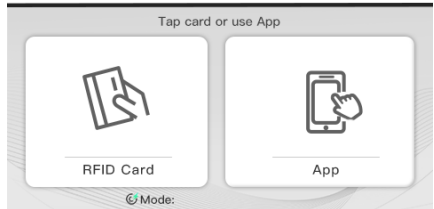
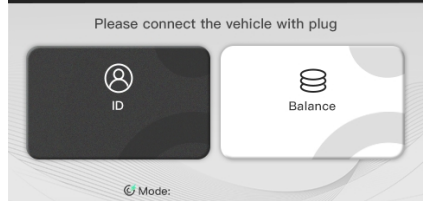
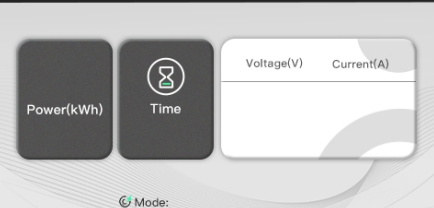
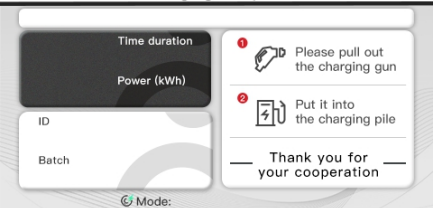
Plug&Charge:

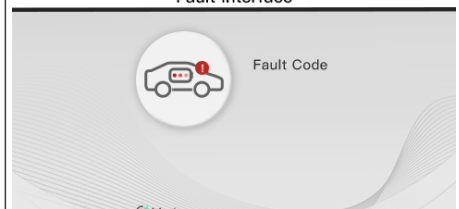
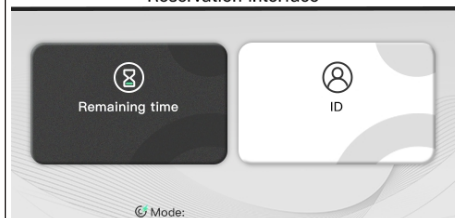
Connect the charger to the EV. The charger will start charging automatically. Once charging is complete, the charging station will automatically stop, and the user can safely remove the charging plug. If you wish to stop charging early, press the silver emergency stop button on the right, and the charger will halt output. Or stop charging by operating your electric vehicle.



Plug&Charge mode operation process flow

5.2 LCD interface introduction (For LCD Version)

	<p>Interface of standby status: Charging mode is displayed at the bottom centre of the screen.</p>
	<p>Interface of user card information Displayed for user to check card ID and balance when swiping RFID card while EV is not connected.</p>
	<p>Interface of charging status: being carried out. There is charging time, consumed electricity, charging cost on it, as well as real-time charging voltage and charging current.</p>
	<p>Interface of charging complete: Displayed when the EV stops charging, or forced on/off button is pressed on charger side.</p>

	<p>Interface of fault status: Displayed with fault code and fault description when fault occurs.</p>
	<p>Interface of reserved status: If the back-office server and APP support reservation function and the charger is reserved, this interface will come out showing user ID and remaining time to reserved time.</p>

6 Firmware Update

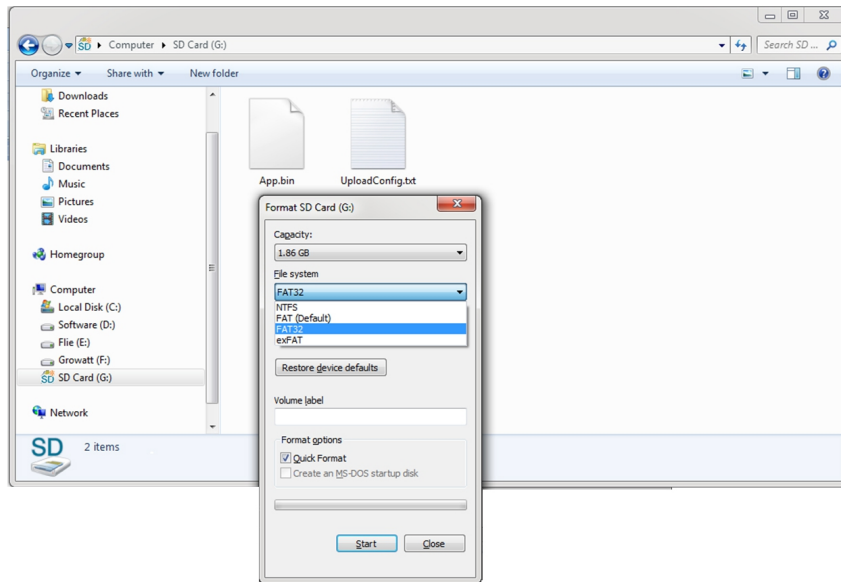
6.1 Update by SD card

There are 2 ways to update firmware for EV charger.

- 1.Update by SD card
2. Update on parameter setting page

The firmware file must be named as "App.bin".

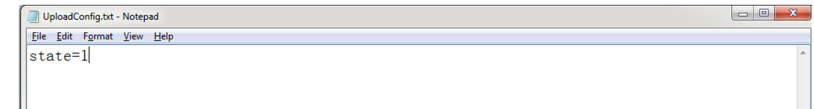
1. Prepare a microSD card with capacity not greater than 4G. Format the SD card using FAT32.



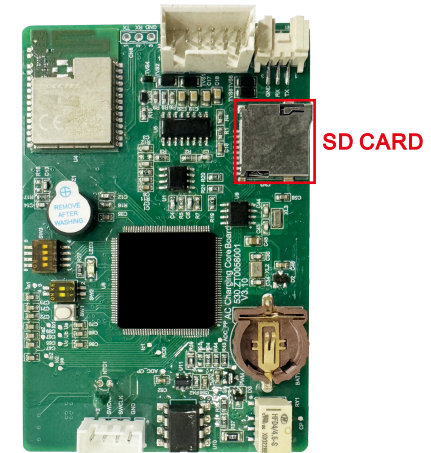
2. In the root directory of the SD card, rename the firmware file as "App.bin". And create a txt file with name of "UploadConfig.txt".

App.bin	2018/12/5 15:58	BIN 文件	168 KB
UploadConfig.txt	2018/12/6 15:04	文本文件	0 KB

3. Open the txt file, write "state=1" in it and save the file.



4. Insert the SD card into the charger, turn off and back on the charger, the update will start automatically. The indicator will first flash red and then flash green with a long beep as the end of the update (sometimes the beep sound may not be clearly heard). After the update is done, turn off the charger and remove the SD card.



Micro SD slot of 7-12kW charger

5. Check the current FW version on LCD or the parameter setting page.

To check FW version on the parameter setting page

Connect the charger to computer via a network cable, the computer's IP must be within the 192.168.1.x segment (x is any value between 1 and 255 except 5). Open the web browser, type in the charger's default IP of "http://192.168.1.5:8080" and click enter, then you can check the firmware version on the appeared parameter setting page.

6.2 Update on parameter setting page

Using this method for update doesn't require any specific name for the firmware file.

1. Connect the charger to a computer with IP address set as 192.168.1.x(x can be any value between 1 and 255 except 5) via a network cable. Open web browser and type in the charger's default IP address-http://192.168.1.5:8080, click enter then you'll get into the parameter setting page.

2. Scroll down to the below field.

3. Click the "Browse" button and select the firmware file. Click "Upload", then update will start automatically.

During the update, the LED indicator will behave as below, First flash red and goes out with a short beep sound, during this period the firmware file is transmitted to the charger's flash memory from the computer; Then flash red again for some seconds and quickly change to green light flashing. During this period, the charger is updating the firmware to its micro controller. When the greenlight goes out, there will be a long beep sound. That means the firmware is successfully updated. The beep sound may not be audible with the front cover fixed on the charger.

If the update doesn't start after click "Upload", Turn off and back on the charge to try again.

4. You might see below content. If the charger is already successfully reboot after the firmware update, close the browser and open it again to check the current firmware version.

7 Troubleshooting

7.1 Troubleshoot by LED behavior or LCD display

If fault occurs, users can check the fault information on the LCD or by the number of blinks of the LED indicator light. Each fault is indicated with a sequence of different numbers of LCD blinking. A pause of 3 seconds between each sequence indicates the beginning or end of a sequence. If multiple faults happen at the same time, each sequence of blinking shows in chronological order at an interval of 3 seconds.

Please see the table below for detail information:

No.	Fault code on LCD (if available)	Number of blinks of the LED	Fault description
1	100	3	The silver emergency stop button is pressed or broken
2	105	1	Over voltage on phase L1
3	106	2	Under voltage on phase L1
4	108	4	Over current
5	109	5	Over temperature
6	110	6	Leakage current detected
7	111	7	RS485 communication fault
8	112	8	Lightning protection Fault
9	114	10	Relay fault
10	115	11	PE fault
11	117	13	Out of service
12	118	14	Door opened
13	119	15	MCU fault

7.2 Firmware update fails

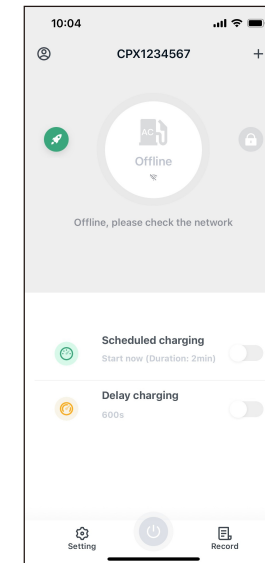
7.2.1 Firmware update failure with SD card:

- Check if the capacity is over 4G bytes, please use a SD card of less than 4G to retry;
- Check if the SD card is formatted with FAT32;
- Check if the firmware file is renamed as App.bin;
- Check if you have filled in "state=1" in the UploadConfig.txt file.

7.2.2 Firmware update failure with laptop:

Please try with IE browser. Or reboot the laptop to retry.

7.3 WiFi connection&APP issue



- Check WiFi signal strength;

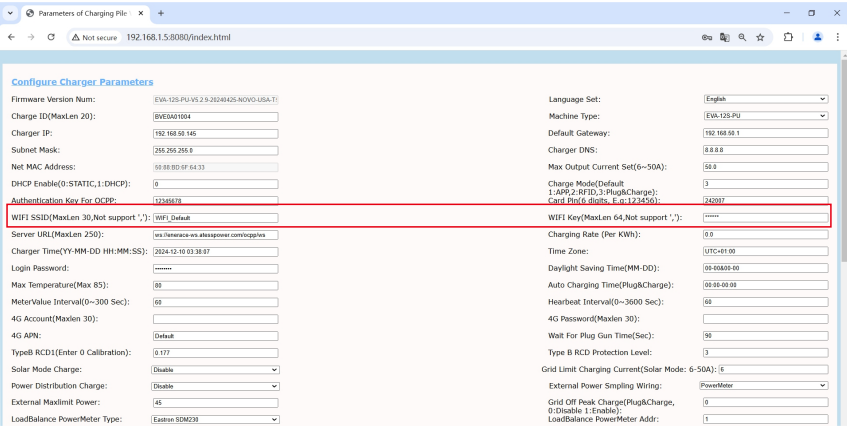
Signal strength on PC:



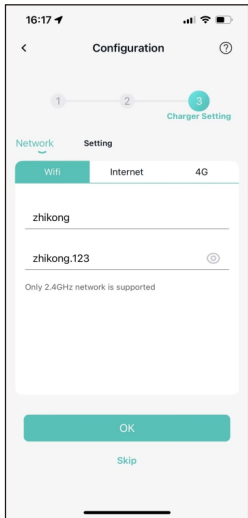
Signal strength on mobile:



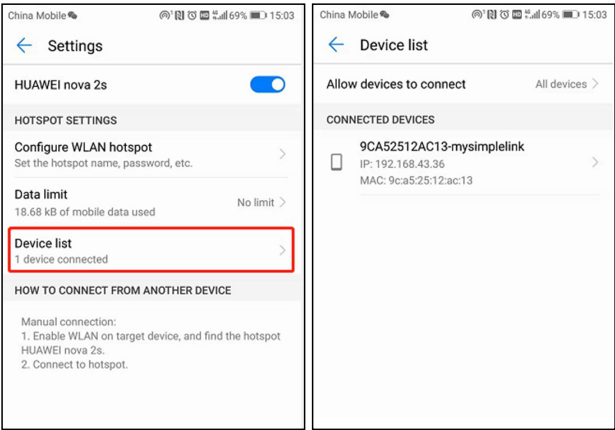
b. Please check and input the correct WiFi SSID and password to retry;



If you check the WiFi setting on the APP, please turn off and back on the charger and connect your mobile to the WiFi emitted by the charger for checking and setting.



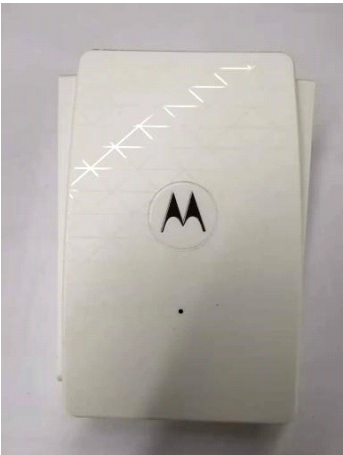
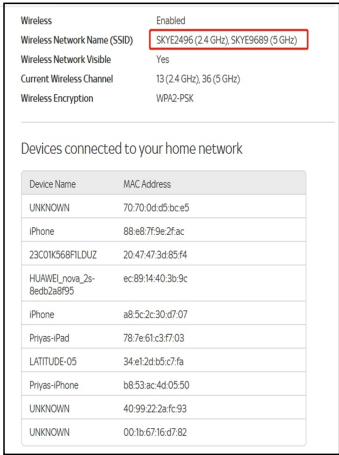
c. Check if there is access control in the router, e.g. MAC filtering, port blocking, etc. To verify this, you can use your mobile phone to create a hotspot and try to connect the charger to this mobile hotspot. If charger can connect to the hotspot, but cannot connect to the router, there must be access control in the router, please check with the site owner for this. Check if charger is connected on Device list of the hotspot setting page.



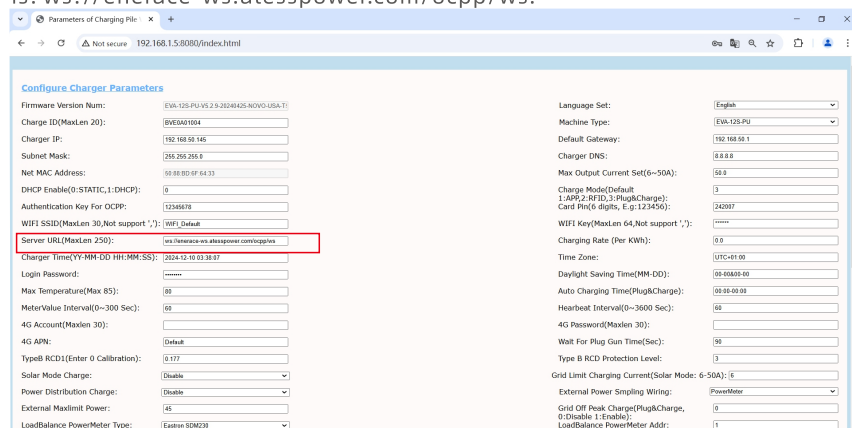
d. 1. Some routers have 2 WiFi, one is 2.4GHz, the other is 5GHz. Most homes just use the 5GHz WiFi as their default WiFi. But the charger can only connect to the 2.4GHz WiFi. So if the charger can connect to your mobile phone hotspot, but cannot connect to the home WiFi. Please check with the home owner or check on their router to see if you are using the 5GHz WiFi. Please do use the 2.4GHz WiFi for charger connection.

2. When the WiFi signal strength is lower than - 75dbm, the charging point will not be able to connect with WiFi.

- (1) Download the WiFi signal strength test tool from the app store to check whether the WiFi signal strength connected to the charging point is greater than - 75dbm.
- (2) If the WiFi signal strength is weak, it is recommended to use AP repeater to increase the signal strength, which can enlarge the WiFi signal range.



- e. Check if the charger is still connected to the computer. Please unplug it from computer otherwise the charger won't connect to the back-office server.
- f. Check if server address is correct in the "Server URL" field. The correct setting is: `ws://enerace-ws.atesspower.com/ocpp/ws`.

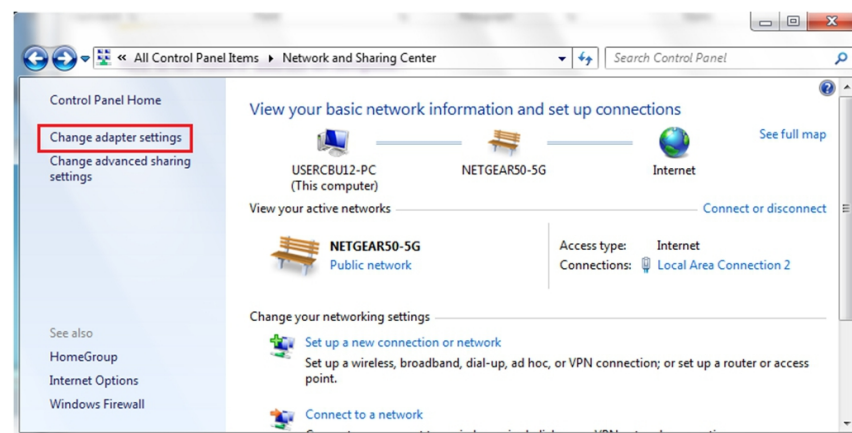


7.4 Cannot access parameter setting page

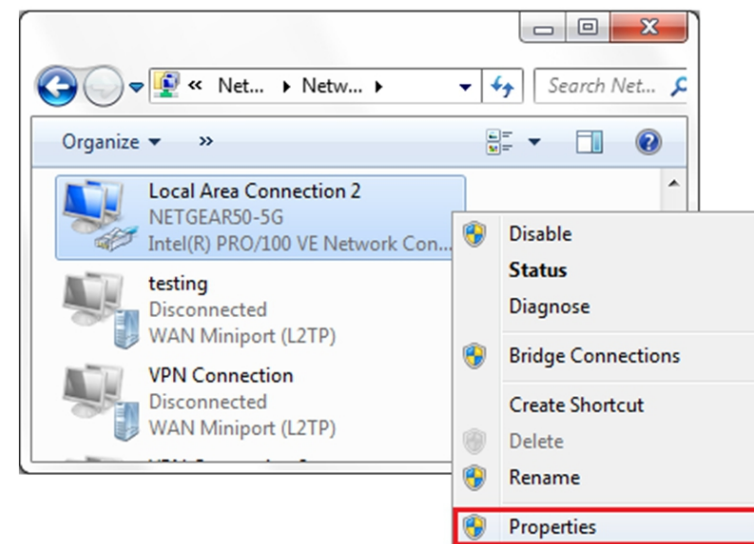
- a. Check if you have connected the charger to your computer.
- b. Check if you have change the computer's IP to 192.168.1.x(x can be any value between 1 and 255 except 5).

To set a static IP on your Windows computer:

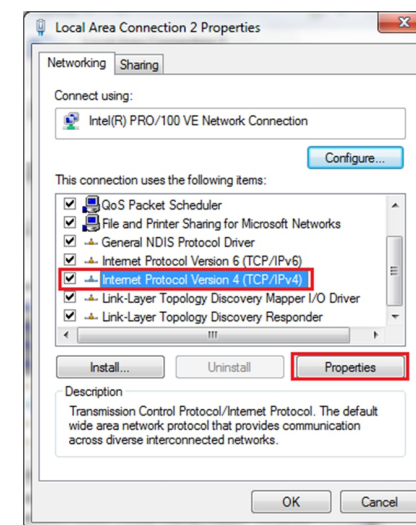
- (1) Click Start Menu>Control Panel>Network and Sharing Center. (For Windows 8 and higher, search for and open Control Panel and select Network and Internet).
- (2) Click Change adapter settings.



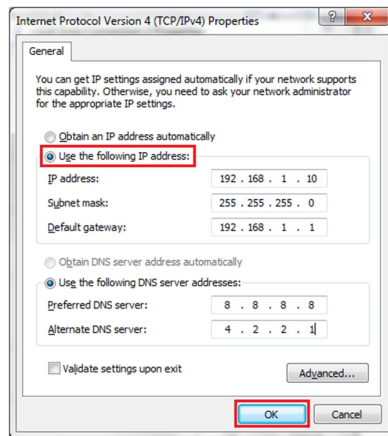
- (3) Right-click on Local Area Connection and click on Properties.



- (4) Select Internet Protocol Version 4 (TCP/IPv4) and click on Properties.



- (5) Select "Use the following IP address" and enter the IP address, Subnet Mask, Default Gateway. Click OK and close the Local Area Connection properties window.

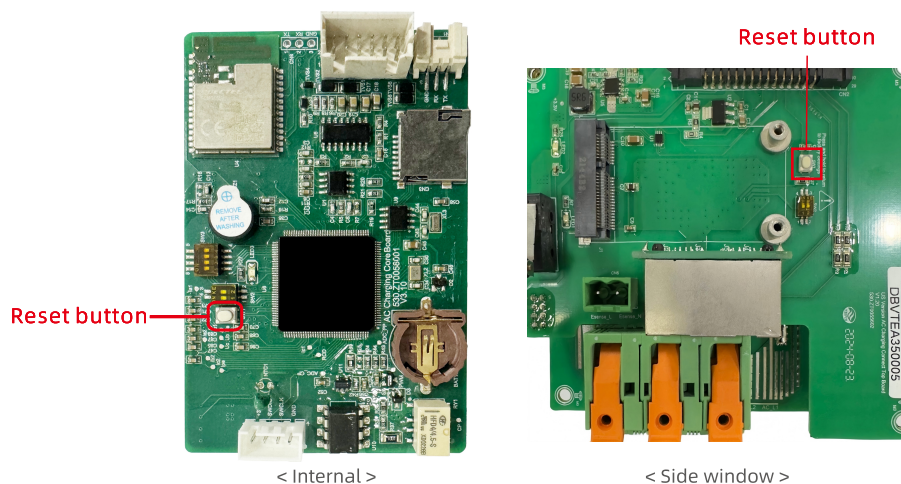


c. Check what web browser is being used, it's suggested to use Firefox or IE, Chrome cannot be used to update firmware.

d. Check if you have input the complete content, which is http://192.168.1.5:8080, in the address field, do not leave out the http:// or the ":8080".

e. Sometimes you may need to restart the charger to access its parameter setting page.

f. If you have changed the charger's IP to other value and cannot remember, you can restore the charger to factory setting by long press the reset button. Then you can access it using http://192.168.1.5:8080



Please note: After restoring the charger to factory setting, you'll need to reset the charger ID and server url, otherwise the charger won't be connected to the back-office server.

7.5 Charging issue

If charging cannot start after the car is plugged in:

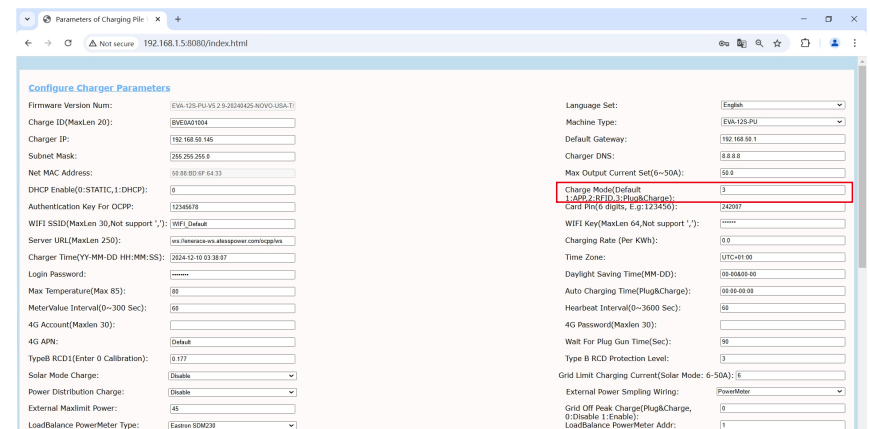
a. Check if the red emergency stop button is pressed.

b. Check what charge mode is being used

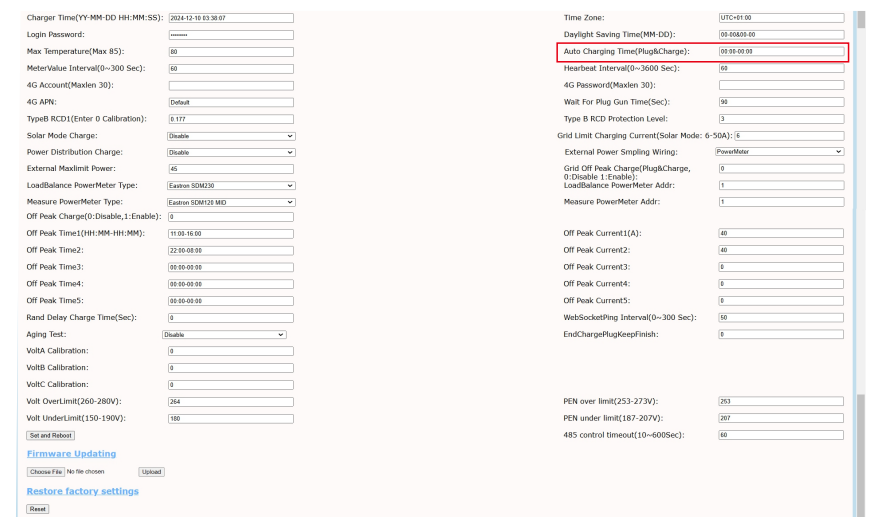
APP/Rfid: Charge can only be started/stopped by APP or RFID card, and the charger must be connected to the back office server already.

RFID: Charge can only be started/stopped by RFID card;

Plug&Charge: Charge will start automatically when car is plugged in.



c. Check if off-peak charging is set and if charger's time is correct. If off-peak charging is set, charge can only start within the charging allowed time period.



8 Use Excess Solar Power to Charge Your Car

The charge point can work with grid-tied solar system, to detect and use the residual solar power to charge your car that otherwise would be fed back to grid. This can help increase the self-usage rate of the solar system and reduce electricity bill for the household. The charge point supports 3 charge modes with grid-tied PV system: FAST, ECO and ECO+.

8.1 Introduction to the 3 modes for solar charge

FAST Mode:

Charge at the rated power, the car can be fully charged in the shortest time at this mode.

ECO Mode:

(1) Solar function set the power P range: P_e stands for rated power, P_1 stands for power of transferred to Power Grid by Photovoltaic.

① The power of single-phase charger belongs to $(1.92kW - P_e)$

(2) The condition of changing duty cycle of charger: P_2

① The power of single-phase charger $P_2 = 500W$

(3) Operation mode:

① when Initial charging, Permissible output power of charger $p_3 (P_3 = P)$

② If $P_1 < P_2$, Permissible output power of charger $P_3. (P_e \geq P_3 \geq P)$

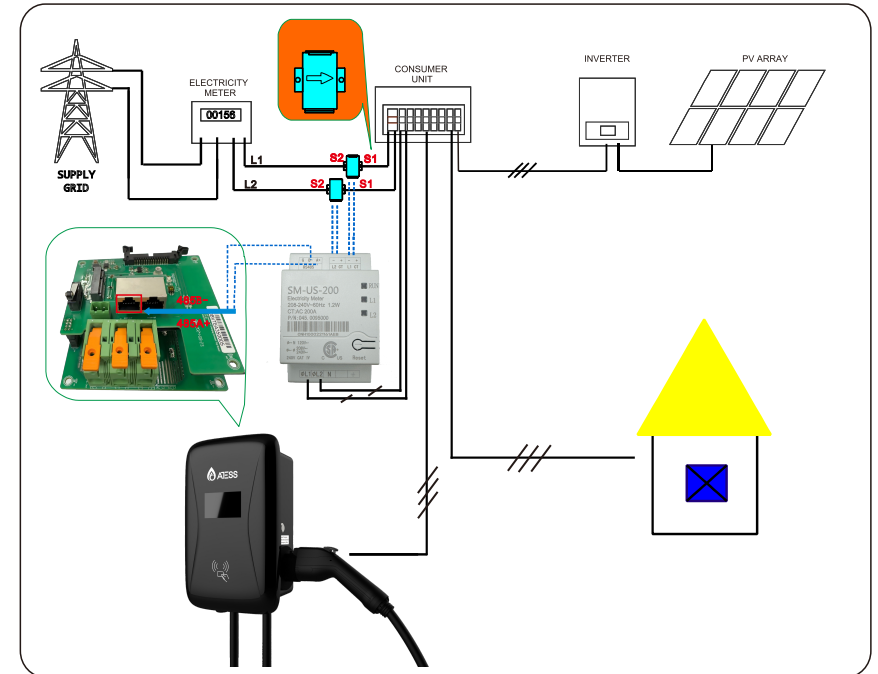
③ If $P_1 \geq P_2$, Charger will Increase Permissible Output Power, When detected during this process $P_1 < P_2$ or $P_3 = P_e$. Charger will stop increasing allowable output power, now the allowable output power of charger $P_3. (P_e \geq P_3 \geq P)$

ECO + Mode:

In this mode, the charging point only uses the electricity sent by the photovoltaic inverter to charge the electric vehicle. When the current sent by the inverter is less than 6A, the charging point will stop charging. Please choose this mode carefully.

8.2 Wiring

To monitor the real-time power import and export, a meter is needed for this function to work properly.



8.3 Parameter configuration for this function

(1) Connect the charge point to a laptop with a network cable, access the parameter setting page on the web browser of the laptop.

(2) Scroll down to find the following parameters: Solar Mode, FAST, ECO or ECO+.

Solar Mode
Charge(0:Disable,1:ECO,2:ECO+):

(3) Select meter as sampling device of this solar charge function. Scroll down to find the option: External Power Sampling Wiring(0:Inner CT ,1:PowerMeter). If meter will be used, please set it to 1.

Extern Sample Device(0:CT2000:1
1:PowerMeter 2:CT3000:1):

1

(4) If you choose the PowerMeter. Please choose PowerMeter Type, change PowerMeterAddr to the address shown on the meter.

LoadBalance PowerMeter Addr:

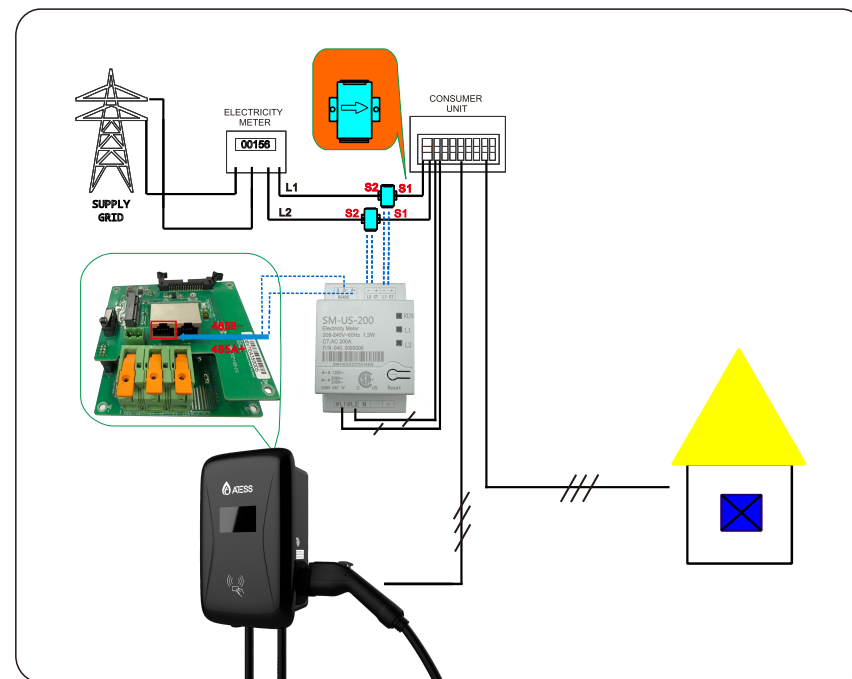
22

9 Load Balancing

Introduction:

The charge point can monitor the total power consumption of the household during charging. If the power consumption approaches the preset max value, the charge point will reduce charge power to avoid the situation of main breaker trip due to overload. It will adjust the charging power dynamically and in real-time thus the car can always be charged with the maximum allowable power.

9.1 If a meter is used, the wiring will be as the following



9.2 Parameter configuration for this function

- (1) Connect the charge point to a laptop with a network cable, access the parameter setting page on the web browser of the laptop.
- (2) Scroll down to find the following parameter: Power Distribution Enable(0:Disable, 1:Enable) and set it to 1 to activate the power modulation function.

Power Distribution
Charge(0:Disable,1:Enable)

0

(3) Select power sampling device in the field of the parameter: External Power Sampling Wiring(0: Inner CT 1: PowerMeter). 0 means CT while 1 stands for meter.

Extern Sample Device(0:CT2000:1 1:PowerMeter 2:CT3000:1):	<input type="text" value="1"/>
--	--------------------------------

(4) Set the maximum power import value in the field of External Maxlimit Power(kW). To avoid nuisance tripping of the main breaker, it is suggested to set this parameter slightly lower than the max supply power of the property. e.g. the max supply power is 15kW, you can set the max power import to 13kW or 14kW.

External Maxlimit Power:	<input type="text" value="45"/>
--------------------------	---------------------------------

(5) If you choose the PowerMeter. Please choose PowerMeter Type, change PowerMeterAddr to the address shown on the meter.

Measure PowerMeter Addr:	<input type="text" value="1"/>
--------------------------	--------------------------------

Model	NOVO EVA-07/09/12S-PU
Dimension(mm)	246/382/162mm
Weight(kg)	<5/6/7
Display	LCD(opt)
Casing Material	Engineering plastics& Tacrylic
Input	
Voltage	AC240V L1, L2,and Grouding
Output	
Voltage	AC 240V
Overcurrent protection as- sociated with the branch circuit for field installation:	40 A, 2P / 50 A, 2P /63 A, 2P
Max current	32/40/50A
Protection degree	NEMA Type 3R
Working environment temperature	-22°F to +122°F(-30°C to +50°C)
Relative humidity	5%~95%
Altitude	2000m
Frequency	60Hz
Communication	Ethernet/WIFI/4G
Charging mode	APP/RFID/Plug and charge
Standby power	<8W
Standard	UL2251/UL2594/UL2231-1/-2 /FCC Part 15
Mounting	Pole/Wall
Certificate	CSA
Protection features	
Overvoltage	260V
Undervoltage	180V
Overcurrent	35.2A 44A 55A
Direct-current	Yes
Leakage protection	20mA CCID
Over temperature	Yes
Lightning protection	Type II

11 App Download, Register, and Login.

11.1. APP Introduction

11.1.1 Description

EneRace is an app for controlling charger. It can help you quickly and easily charge your vehicle with a EV charger.

11.1.2 Main Function Of EneRace

- (1) The APP can push the transfer information of the charger.
- (2) The user can control the start and stop of the charger through the APP.
- (3) The user can preset the charging scheme and scheduled charging.
- (4) The user can modify the parameter settings of the charger.
- (5) Users can authorize other users to use their own charger.
- (6) The user can view the charging record and report to email.
- (7) Users can manage and set up their own accounts.

11.1.3 Performance

APP has good ease of use and reliability, and guarantees the security and confidentiality of information.

11.2. Instructions

11.2.1 APP download and install

User can install EneRace by scanning the below QR code or download it from the APP store (IOS) or GooglePlay (Andriod).



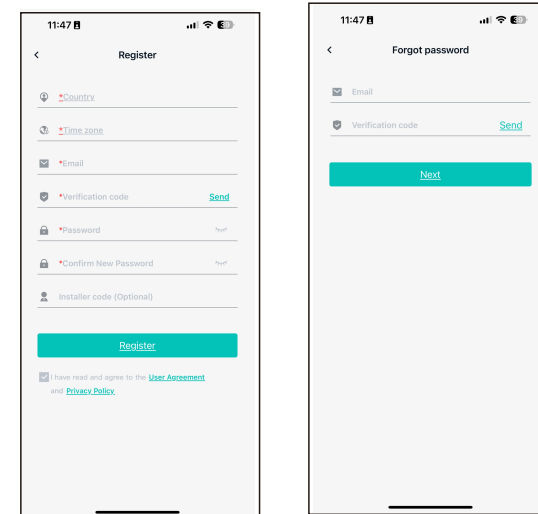
< IOS >



< Andriod >

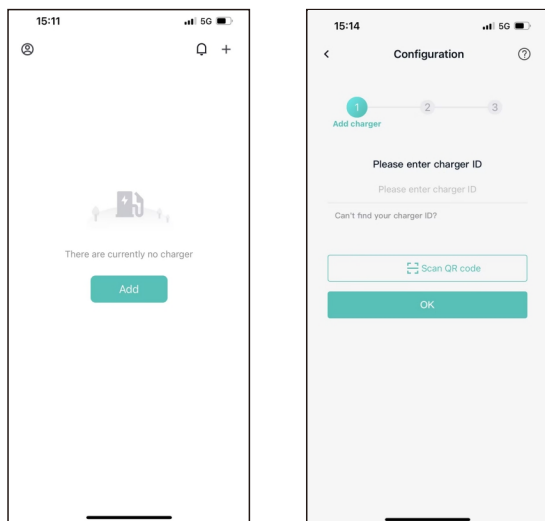
11.2.2 Registration and login

When the user first visits, the user registration is performed by the following steps: Click the desktop icon Login page Register. When the user has an account, you can directly enter the user name and password to log in. If you forget the password, you can click the login page, forget the password button, and follow the prompts to retrieve the password through the mailbox.



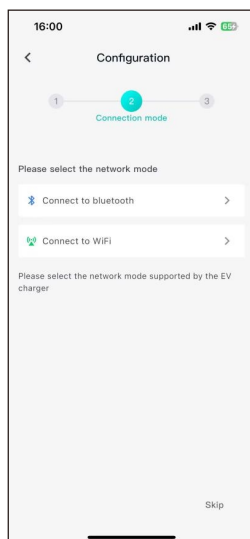
11.2.3 Add Charger

(1) IF you use ATESS APP Charge for the first time, you need to add charger in the APP to facilitate setting and controlling the charger. The process of adding a charger is as follows: Click "Add" to add a charger by scanning the QR code (nameplate) or entering the charger ID. You can check the OR code/Bar code on the side window nameplate.



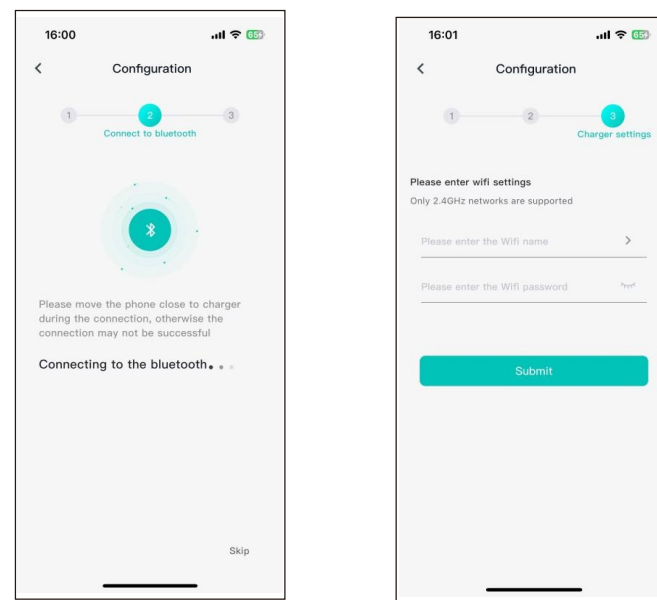
(2) Select the connection method

Select the connection method supported by the model. You can choose between Bluetooth and hotspot connection methods.



Bluetooth connection

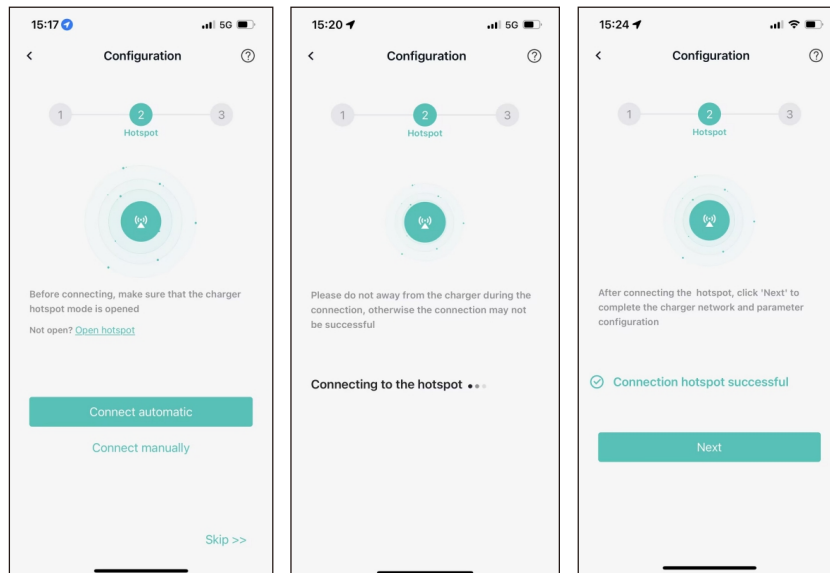
After entering the Bluetooth connection interface, it will automatically match the terminal Bluetooth for connection. Once the connection is successful, the network can be configured.



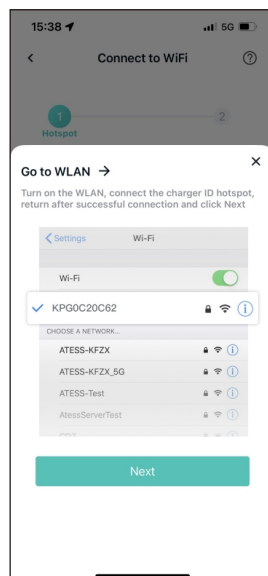
WiFi connection

(1) After entering the WiFi connection interface, click the "Connect automatic" button. The App will automatically find the charger hotspot for connection. After a successful connection, you can click "Next" to enter the pile configuration page.

If the connection fails, you can reconnect or switch to manual connection.

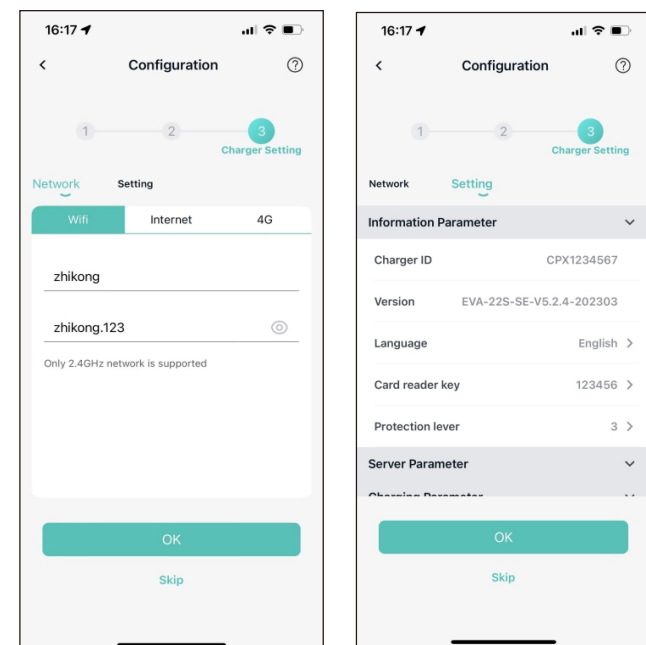


(2) Connect manually: Click “Go to WLAN” to jump to the mobile phone WLAN page. Find the hotspot named after the SN number of the charging pile and connect it (The default password is 12345678). After a successful connection, return to the App and click "Next" to enter the charger configuration page.



Charger setting

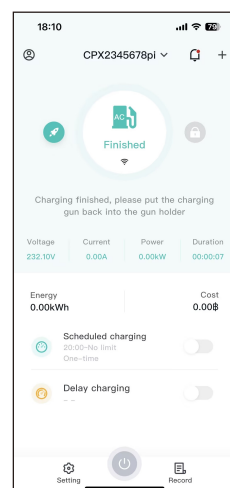
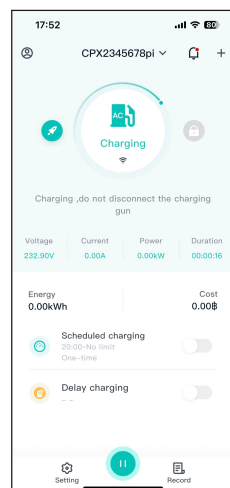
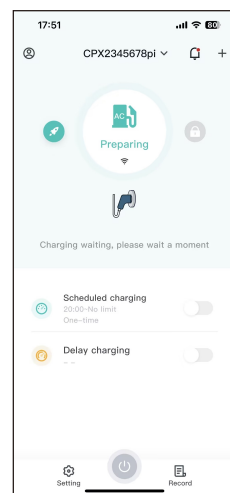
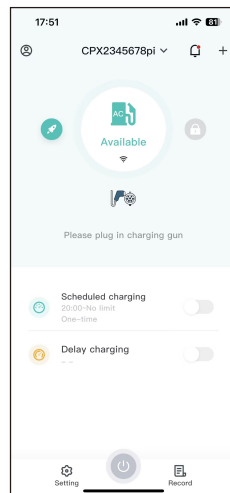
After successfully connecting to the hotspot, enter the charger Settings page, where you can set the charger network and parameters. The network distribution methods support three types: Wifi, Ethernet, and 4G. After the Settings are completed, click the “OK” button, and the charger will automatically configure a restart. If you do not need to set up the charger, you can click “Skip” . Note: If the network or server address is not configured correctly, the charger cannot be used normally in the App.



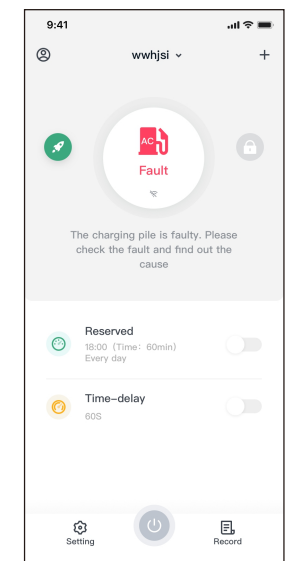
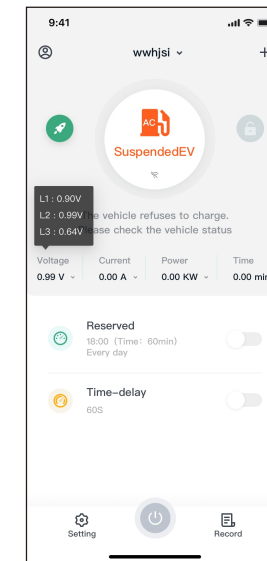
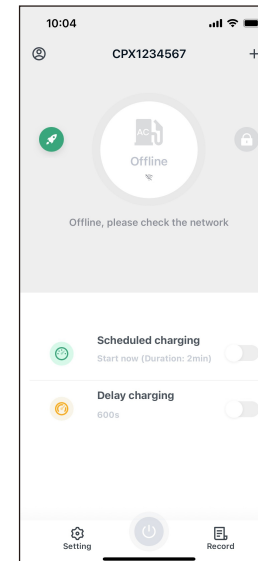
11.2.4 Charger status

Charging page

Start and stop control of charger.



Other states




Charger offline

Charger refuses to charge

Fault

Press “  /  ” to turn on/off.

Note: When the charger is faulty, refuses charging or is offline, the charging button turns gray “  ” and cannot be clicked.

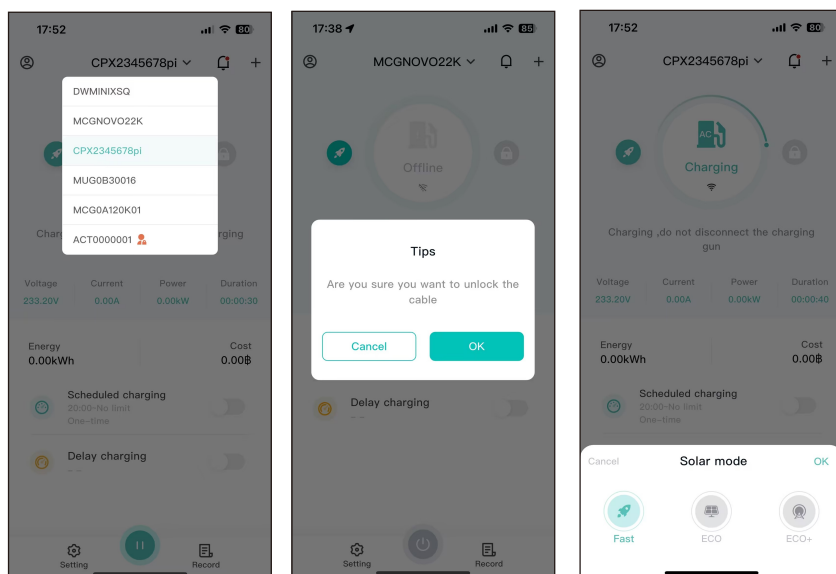
11.2.5 Charger switch and delete

Switch the charger: When multiple chargers are added, the chargers can be switched for operation.

Electronic lock: If the electronic unlock is operated during charging, the charging will stop (some chargers do not support this function).

Charging mode: There are three modes: Fast, ECO and ECO+, which can be used in combination with photovoltaic systems.

When you have multiple chargers, you can switch chargers by clicking the arrow. A list of chargers can be found in the account information, swipe left to delete.



11.2.6 Scheduled charging

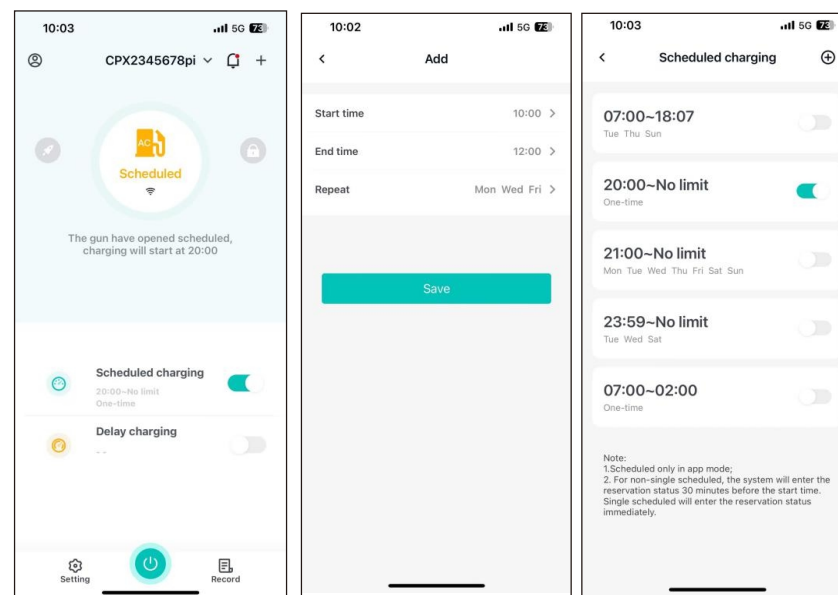
Multiple reservation plans can be preset in advance. Once activated, the charger will charge according to the reservation plan.

Start time: Set the time when charging begins;

End time: Set the time when charging ends;

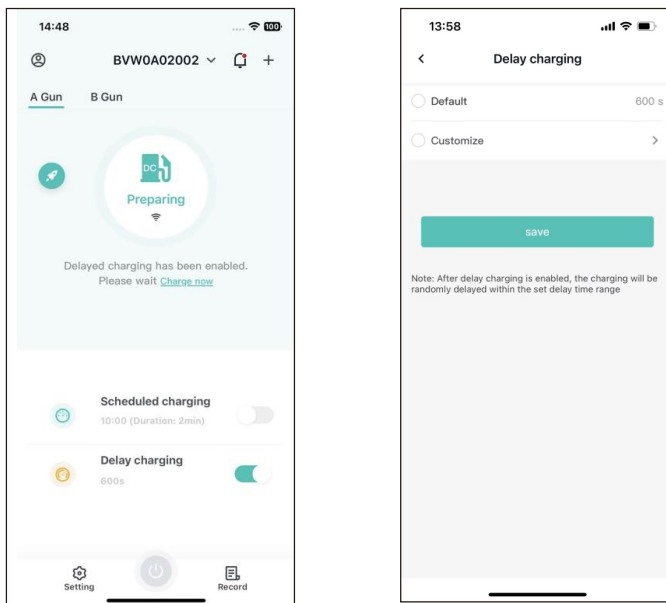
Repeat: Set the repetition frequency of the reservation plan, which can be set as a single time or Monday to Sunday.

Note: Reservation for charging must be used in the App mode.



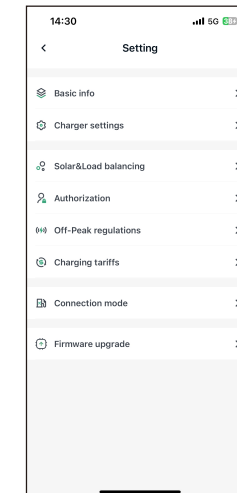
11.2.7 Delay charging

If a delay time is set, when charging starts, it will randomly delay within the set time range (immediate charging can be operated). You can set it in two ways: "default 600S" and "customize". The "customize" delay range is 1 to 1800S; Delay switch: After setting the value, it automatically turns on. Clicking the off button will clear the set time and turn off the delay.



11.2.8 Setting

The functions of the Settings page include: "Basic Information" "Charger Settings" "Solar& Load Balancing" "Authorization Management" "Peak and Valley Settings" "Charging Rate" "Connection Method" "Firmware Upgrade"



Basic info

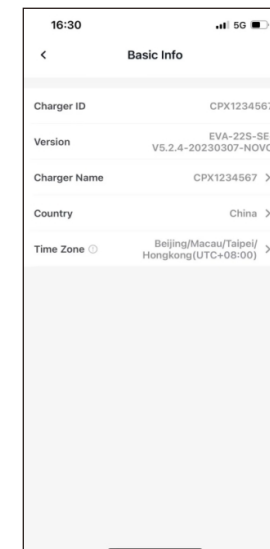
Charger ID: The authentication code of the charger cannot be modified;

Version: Firmware version of the charger;

Charger Name: The name of the charger is taken as the SN number of the charger by default and can be modified.

Country: Set the current country so that the charger displays the correct time;

Time zone: Set the current time zone so that the charger displays the correct time.



Charger Settings

Charger language: Set the language of the charger.

Charging mode : Three modes control the charging of the charger : APP, RFID and plug & charge.

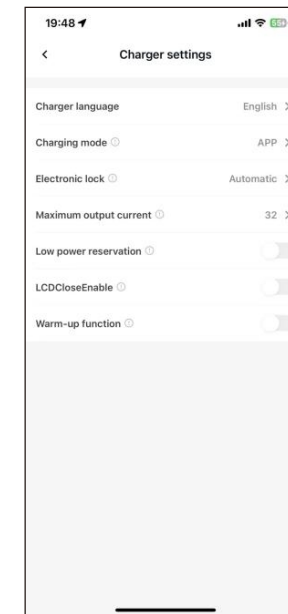
Allow charging time: When the charging mode is Plug&Charge, it can be set to control the charging time allowed in the gun insertion mode (only supported by AC chargers).

Electronic lock : There are two modes: manual and automatic. When the manual mode is selected, the charging connector will lock. When the automatic mode is selected, it is locked during charging and will be automatically unlocked after charging is completed (only supported by AC chargers).

Maximum output current (power): Limit the output capacity of the charger.(for AC chargers, set the current; for DC chargers, set the power).

LCD close Enable: Control whether the LCD screen of the charger is turned off or not. When the button is turned on, the screen is turned off; when the button is turned off, the screen is turned on(only supported by AC chargers).

Warm-up function: Control whether the preheating function is enabled. Once enabled, the charger will continue to supply energy to the vehicle, which can be used to preheat the vehicle in extremely cold weather and reduce battery consumption. It can also prevent the situation where charging cannot be restarted when it is interrupted or paused.(only supported by AC chargers).



Solar & Load balancing

Sampling wiring: The load balancing function and the solar function detect the type of tool for fuse or gird power. CT2000,CT3000 and meter.

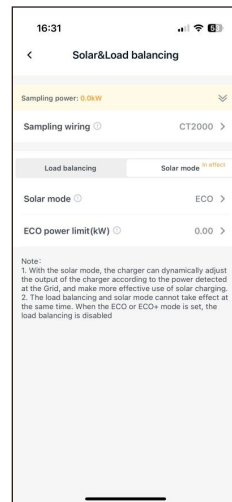
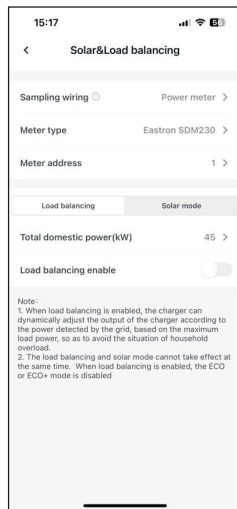
Meter type: The type of electricity meter is set, and the sampling method is displayed when the electricity meter is on.

Meter address: The address of the electricity meter is set, and the sampling method is displayed when the electricity meter is on.

Load balancing: When power distribution is enabled, the charger can dynamically adjust the output of the charger based on the power detected at the grid end and the maximum load power to avoid overload in household use.

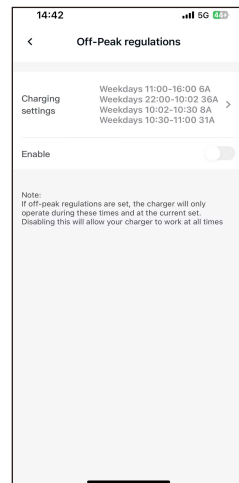
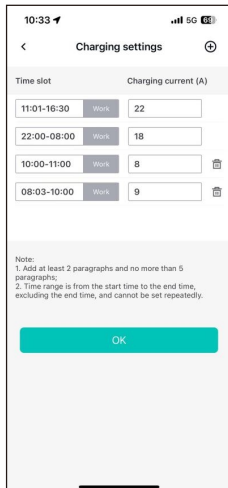
Solar mode: In combination with the photovoltaic charging mode, the charger can dynamically adjust the output of the charger according to the power detected at the grid end, making more effective use of photovoltaic charging. When set to ECO mode, ECO power limit can be set to control the maximum power that is allowed to draw electricity from the power grid.

Note: Load balancing and Solar mode cannot take effect simultaneously



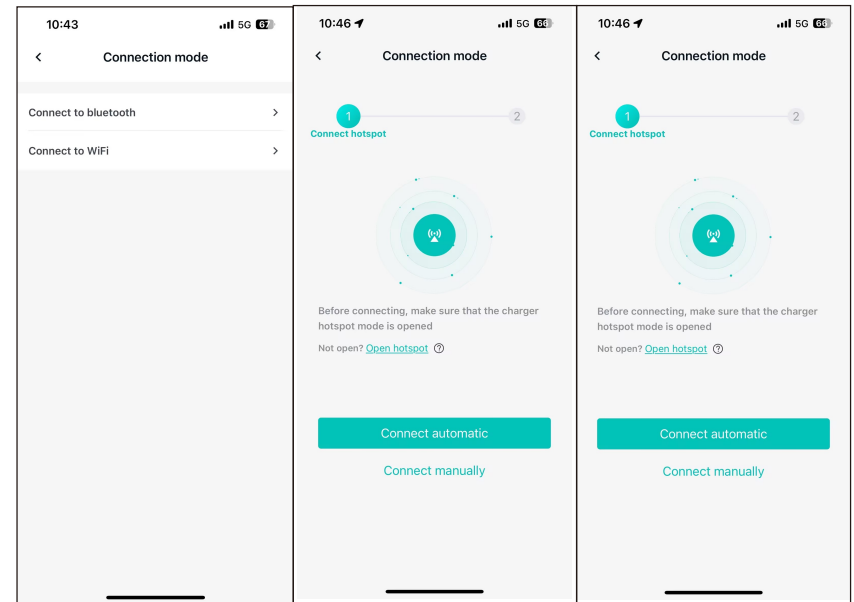
Off-peak Regulations

According to the power price, set the output capacity of the charger in various time periods to save electricity costs. You can set a maximum of five time periods. Each time period can be configured for three types: weekdays/weekends/daily. Older versions of chargers only support setting weekday time slots; an upgrade is required to use the additional options.



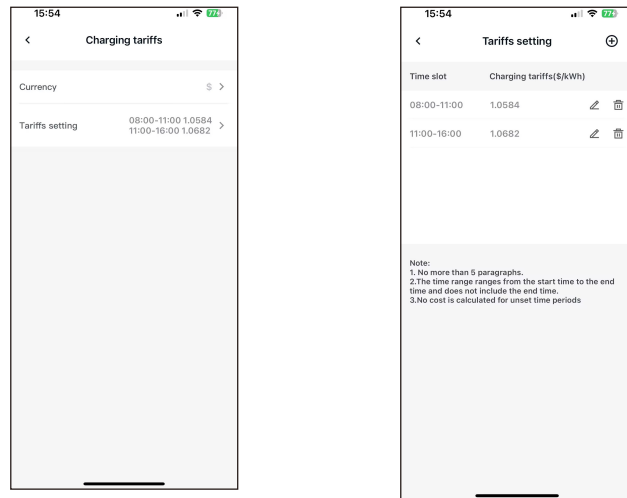
Connection mode

The charger can be connected via Bluetooth or a hotspot for network distribution or parameter setting. Please use it according to the actual connection method supported by the charger.



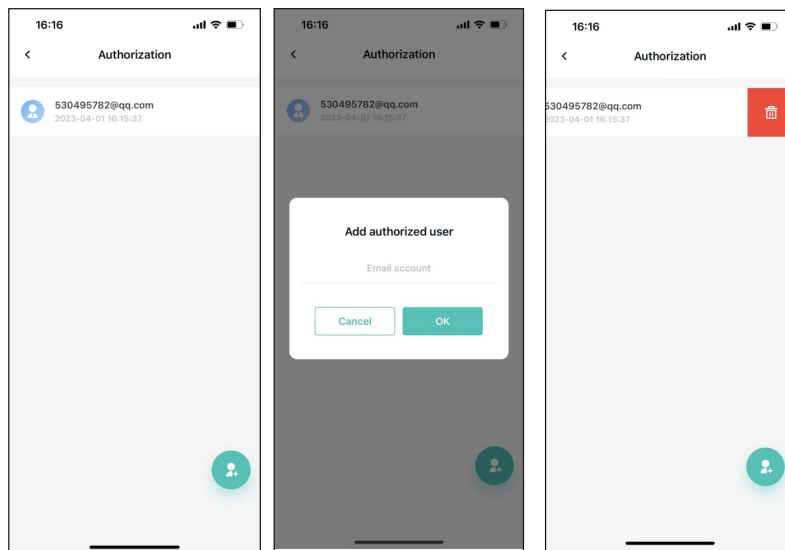
Charging rate

If a charging rate is set, the charging cost will be calculated by multiplying the unit price of the rate set within the charging period by the amount of electricity. For unset time periods, the rate is 0. The start time of the time period cannot be greater than the end time, and it cannot be set repeatedly. The maximum number of segments should not exceed 5.



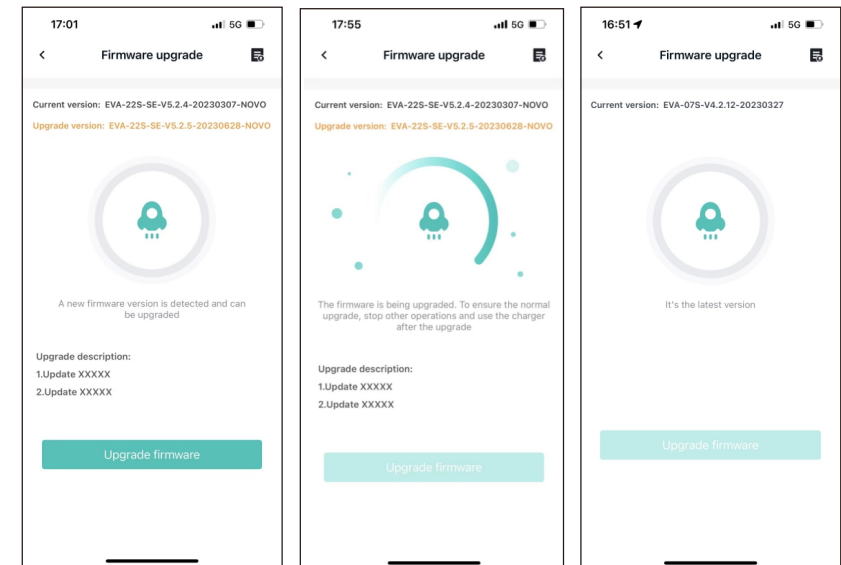
Authorization

Users can authorize other users to use the charging piles through authorization management. Enter the user's email account (registered) to authorize other users to use this charger. To manage authorized users, you can view the authorization time and email account on the authorization management interface. Swipe left to click "Delete". After deletion, the authorized user can no longer use the charger. Note: Authorized users can only operate to start charging. Stopping charging/unlocking the electronic lock can only operate charging initiated by themselves.



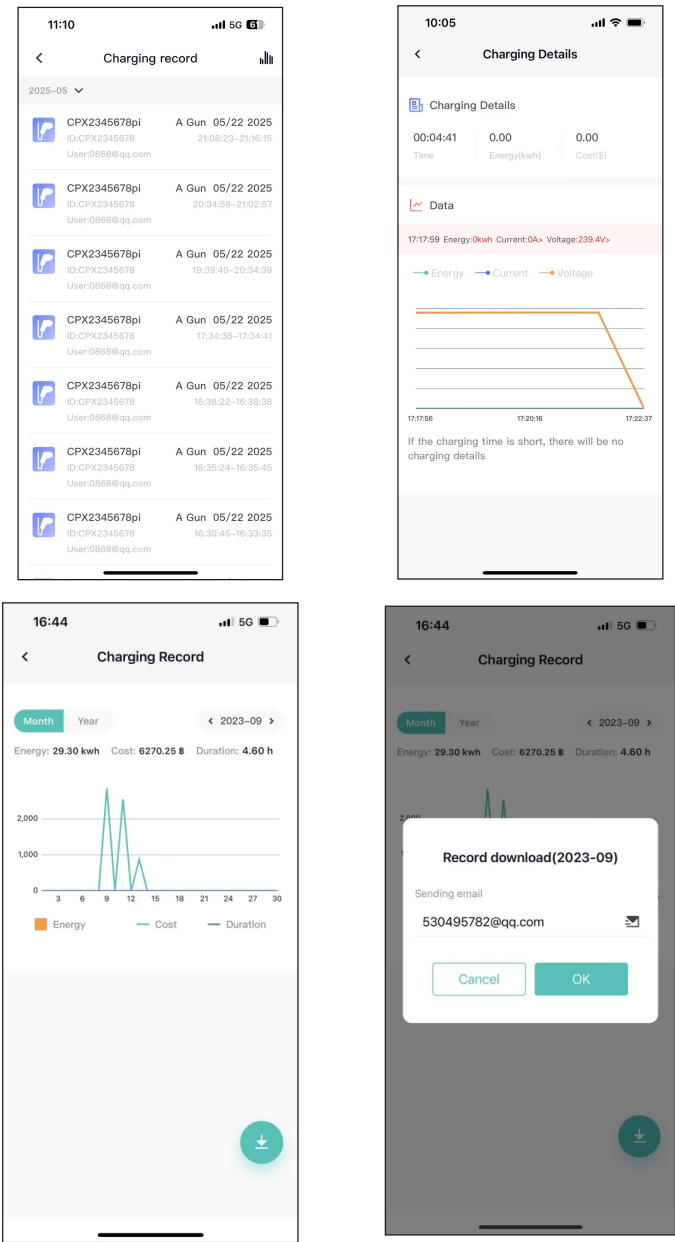
Firmware upgrade

When there is a new version of firmware available for Upgrade, an upgrade pop-up window will pop up. Click "Upgrade" to jump to the upgrade page, click "Later" to close the pop-up window, and you can enter it through the "Setting" entry. After a successful upgrade, the firmware version will become the new one. If the upgrade fails, you can perform the upgrade again.



11.2.9 Charging record

Query the historical charging records of the charger and click to view the charging data.



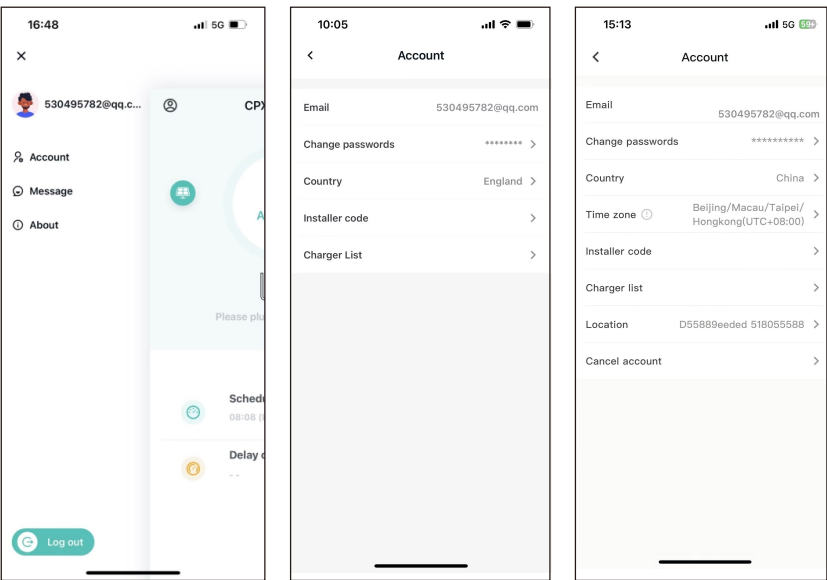
11.2.10 Account Management

Users can manage their accounts, set their avatars, change their passwords, and bind their mobile phone numbers and mailboxes.

Change password: You need to verify the original password, then enter and confirm the new password.

Modify the phone number: Follow the steps to verify the new phone number with a verification code.

Modify the mailbox: Follow the steps to verify the new mailbox by verification code.



12 Warranty

Warranty

The warranty period of this product (Including hardware and software)is 2 years. If the contract stipulates otherwise, the contract shall prevail.

For warranty cases during the warranty period, the customer should present the invoice of the purchase of the product to our service team. At the same time, the nameplate on the product should be clearly visible, otherwise the warranty claim might not be accepted.

Warranty condition

We will repair or replace the product free of charge during the warranty period. The defective machine after replacement shall be owned by us, and the customer shall reserve a certain amount of time for us to repair the faulty machine.

Liability exemption

We reserves the right not to accept the warranty claim if the conditions below happen;

- 1.No trademark on the product;
- 2.Warranty period has expired;
- 3. Fault or damage caused by incorrect installation, by installing the device in a not allowed environment, by improper storage or usage, etc.(e.g. too high or too low temperature, moisture or too dry environment, high altitude or unstable voltage/ current etc.
- 4.Failure or damage caused by the installation repair, modification or disassembly by unauthorized service personnel;
- 5.Failure or damage caused by using our non-genuine spare parts;
- 6.Damage or damage caused by accident or human cause (operational error, scratching, handling, bumping, access to inappropriate voltage, etc.), or transport damage;
- 7.Failure or damage caused by force majeure such as natural disasters (such as earthquakes, lightning strikes, fires, etc.)
- 8.Other failures or damages that are not caused by quality problem of the product or its components.

Statement of liability

The copyright of this manual belongs to our company. Any organization or individual may not extract or copy part or all of the contents of this manual without any written permission from us, and may not be reproduced and spread in any form (including materials and publications). We have the final right to interpret this manual. This manual is subject to change without prior notice. For more information, please contact support@atesspower.com.

Annex13

13.1 Electrical diagram

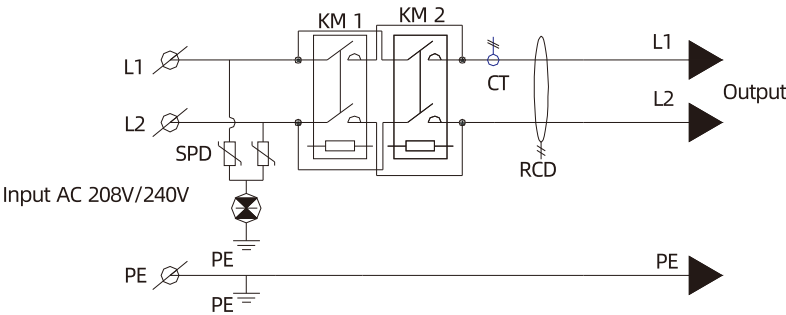
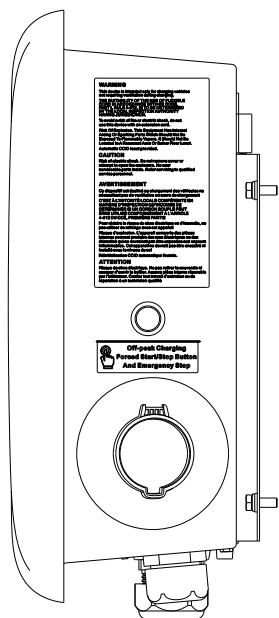


Fig13-1. Main circuit diagram

13.2 Warning and safety marks Label description



WARNING

This device is intended only for charging vehicles not requiring ventilation during charging.

THE SUITABILITY OF THE USE OF FLEXIBLE CORD IN ACCORDANCE WITH CE CODE, PART I, RULE 4-012, IS TO BE DETERMINED BY THE LOCAL INSPECTION AUTHORITY HAVING JURISDICTION.

To avoid a risk of fire or electric shock, do not use this device with an extension cord.

Risk Of Explosion. This Equipment Has Internal Arcing Or Sparking Parts Which Should Not Be Exposed To Flammable Vapors. It Should Not Be Located In A Recessed Area Or Below Floor Level.

Automatic CCID reset provided.

CAUTION

Risk of electric shock. Do not remove cover or attempt to open the enclosure. No user serviceable parts inside. Refer servicing to qualified service personnel.

AVERTISSEMENT

Ce dispositif est destiné au chargement des véhicules ne nécessitant pas de ventilation au cours du chargement C'EST À L'AUTORITÉ LOCALE COMPÉTENTE EN MATIÈRE D'INSPECTION QU'INCOMBE DE DÉTERMINER SI UN CORDON SOUPLE PEUT ÊTRE UTILISÉ CONFORMÉMENT À L'ARTICLE 4-012 DU CCÉ, PREMIÈRE PARTIE.

Pour réduire le risque de choc électrique ou d'incendie, ne pas utiliser de rallonge avec cet appareil Risque d'explosion. L'appareil comporte des pièces internes pouvant produire des arcs électriques ou des étincelles qui ne devraient pas être exposées aux vapeurs inflammables. Cet appareil ne devrait pas être encastré ni installé sous le niveau du sol.

Réinitialisation CCID automatique fournie.

ATTENTION

Risque de choc électrique. Ne pas retirer le couvercle ni essayer d'ouvrir le boîtier. Aucune pièce interne réparable par l'utilisateur. Confier tout travail d'entretien ou de réparation à un technicien qualifié.

Company Name: Shenzhen Ateess Power Technology Co.,Ltd

Website: www.ateesspower.com

Service line: +86 755 2998 8492

E-mail: info@ateesspower.com

Address: GROWATT-ATESS Industrial Park, No.23 Zhulongtian Road, Shuitian Community, Shiyan Street, Baoan District, Shenzhen