

NOVE ATESS EVA-11/22D-SE/PE

3-phase AC charger Quick installation guide

Shenzhen ATESS Power Technology Co.,Ltd

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

T +86 755 2998 8492
F +86 755 2998 5623

www.atesspower.com

Revised date:2023-09-19

Disclaimer

This user manual is copyrighted by ATESS Power Technology Co.,ltd. (hereinafter referred to as “ATESS”). No company or person may extract or copy part or all of this user manual without the written permission of ATESS Power Technology Co.,ltd. Content must not be transmitted in any form, including materials and publications.

All rights reserved.

ATESS has the final right to interpret this user manual. The information in this manual is subject to change without notice.

Thank you for using ATESS EV charging equipment!

EVA series intelligent three-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.

NOVO EVA-11/22D-SE/PE has the function of not connect ground bar, which conforms to EN 61558-2-4 standard. Protection against electric shock is provided by a device which disconnects the charging point from the live conductors of the supply and from protective earth in accordance within the 5S in the event of the voltage between the circuit protective conductor and Earth exceeding 70 Vrms .The device will not operate if the voltage exceeds 70 V rms for less than 4S.

We sincerely hope that this product can meet your needs and will continuously improve the quality of our products.

Menu

I. Product description ····· 1

II. Packaging list ····· 2

III. Installation and wiring ····· 3

IV. Parameter setting ····· 5

V. Operation instruction and LCD description ····· 17

VI. Firmware update ····· 20

VII. Troubleshooting ····· 24

VIII. Intelligent power modulation ····· 32

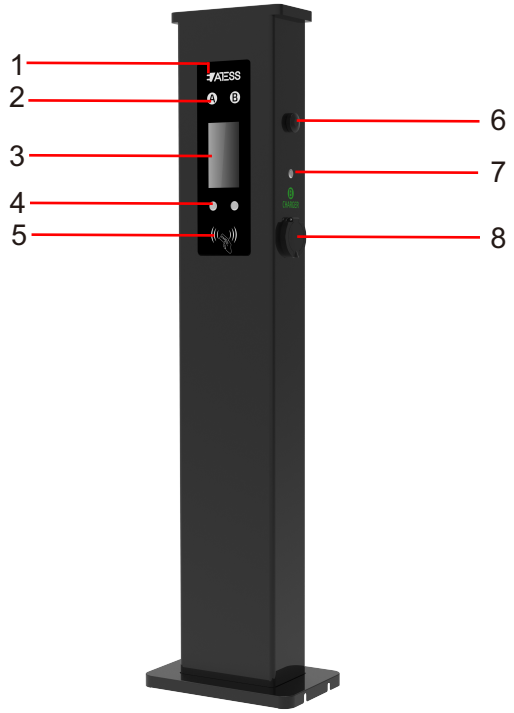
IX. Use excess solar power to charge your car ····· 34

X. Specification ····· 37

XI. Annex1 ····· 38

XII. Annex2 ····· 50

I. Product description



1.LOGO and logo backlight

2.A/B status indictor

3.LCD display

4.Debug button/A/B gun switch

5.RFID reader

6.WIFI/4G Antenna

7.Emergency stop button/AP switch button(press and hold for 10 seconds to enter AP mode)

8.Socket outlet (plug holder for cabled version)

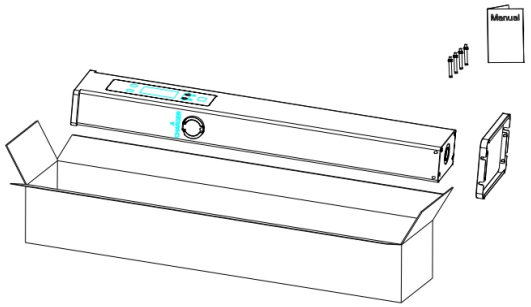
II. Packaging list

No.	Name	Qty	Remark
1	Charger	1	
2	User manual	1	
3	Quality certificate	1	
4	Cable hook	2	For cabled version
5	User card	3	
6	M5*12 stainless steels hex-head self-drilling screws	4-10	4 Fixed the bottom bracket 6 of 10 Pugs for cabled version, cable hook fixing
7	M8*80 Plastic expansion plugs	4	For the bottom bracket
8	M4×8 Nickel plating Pan head cross	1	PE cable
9	Pedestal	1	Chargepoint base

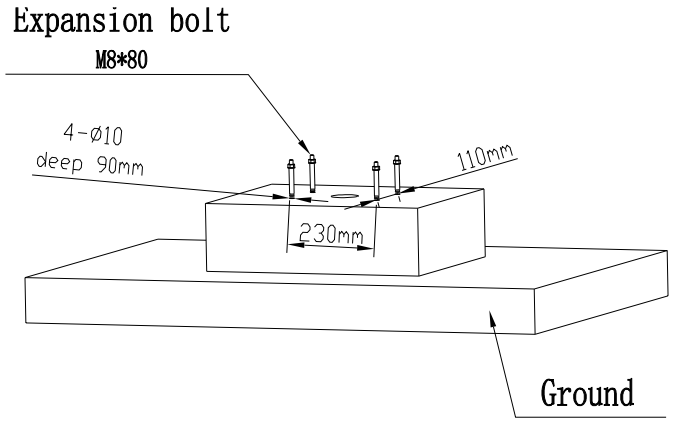
III. Installation and wiring

3.1 Installation on the ground

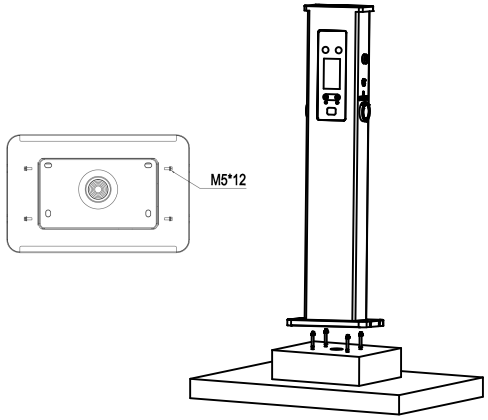
3.1.1 Open the packaging, you'll see a charge point, a user manual, a pedestal and a bag of mounting accessories. There is also an RFID card if the charge point is RFID version. For cabled version, a cable hooker is also included inside.



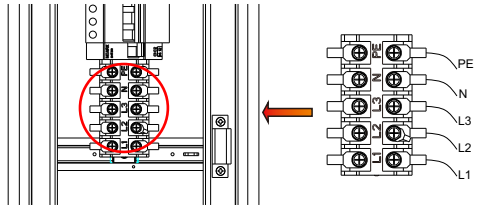
3.1.2 The chargepoint must be installed on a hard surface, concrete surface is recommended, it can also be mounted on a solid ground. Drill hols according to the requirements marked on the illustration for fixing expansion bolts.



3.1.3 Fix the chargepoint 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 hooker.



3.1.4 Crimp the below shown ring terminals on the end of the AC input wires and PE wires. Connect the wires into the terminal block of the chargepoint as below.
Check the wiring and then close the switch and the door.

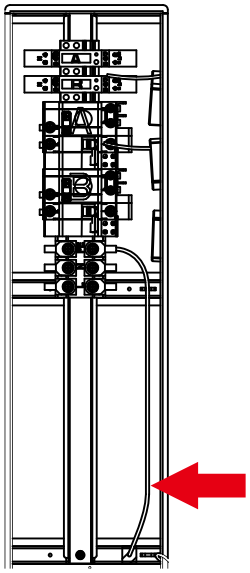


	Model	L1	L2	L3	N	PE
Terminal	11K					
	22K					
Wire	11K	≥6mm² ≥AWG9	≥6mm² ≥AWG9	≥6mm² ≥AWG9	≥6mm² ≥AWG9	≥6mm² ≥AWG9
	22K	≥16mm² ≥AWG5	≥16mm² ≥AWG5	≥16mm² ≥AWG5	≥16mm² ≥AWG5	≥16mm² ≥AWG5

3.2 According to different use scenarios of users, A PE wire is randomly attached to the packaging accessories

1. For the earth free scenario, the metal shell of the charger does not need to be connected to the PE column, and the PE line does not need to be ignored.

2. For the scene requiring grounding, PE wire needs to be connected to PE row and PE column.



The position of PE terminal

IV. 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.

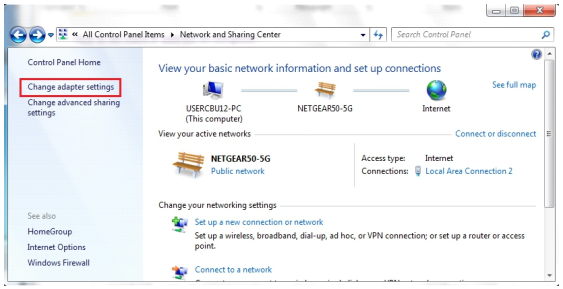
4.1 Set computer's IP

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).

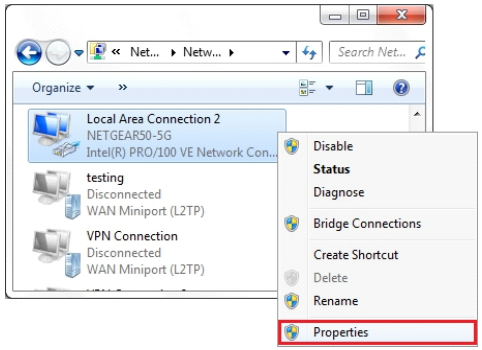
To set a static IP on your Windows computer:

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).

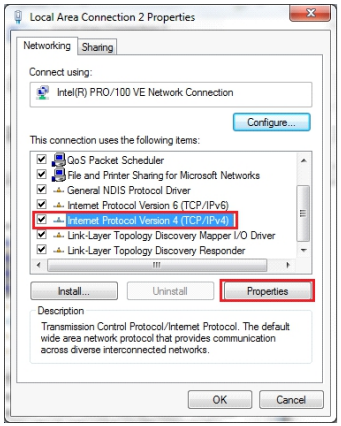
2.Click Change adapter settings.



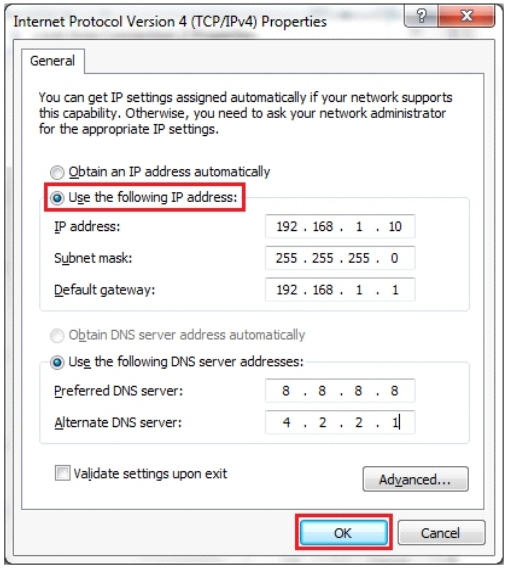
3.Right-click on Local Area Connection and click on Properties.



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

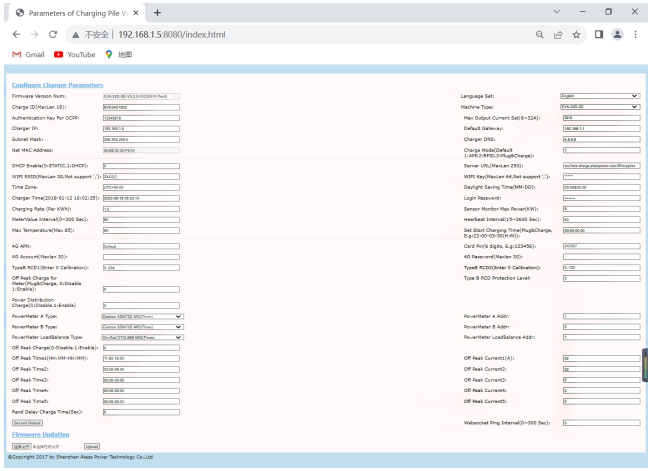


5.Select "Use the following IP address" and enter the IP address, Subnet Mask, Default Gateway. Click OK and close the Local Area Connection properties window.



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 enter the password: 12345678 and click enter again,the parameter 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.

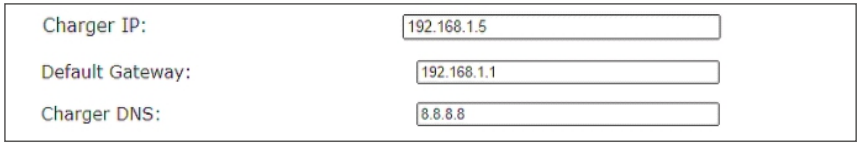


Fig.3

(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.

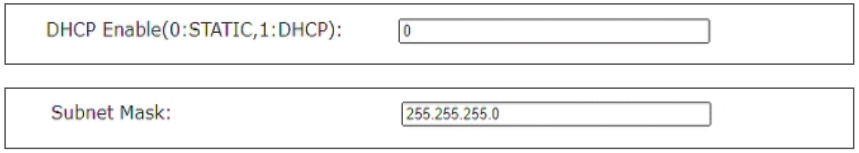


Fig.4

(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



Fig.5

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

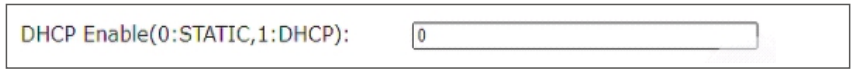


Fig.6

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

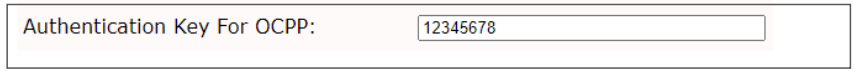


Fig.7

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

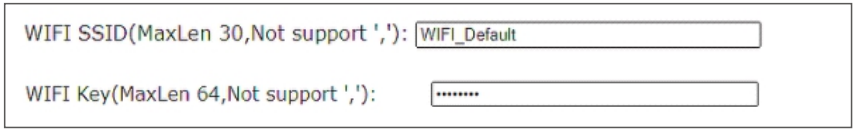


Fig.8

(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://ess-charge.atesspower.com:80/ocpp/ws”;

IP address is “ws://ess-charge.atesspower.com:80/ocpp/ws”.

Heartbeat Interval is used for testing. No need change.

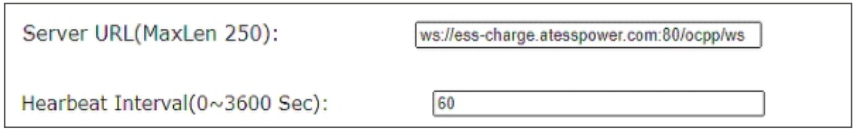


Fig.9

(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.

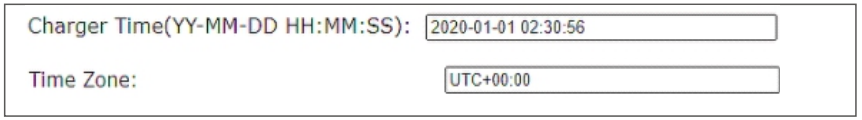


Fig.10

(11) Login password is used for web page login parameter settings,the default password is 1234578.



Fig.11

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

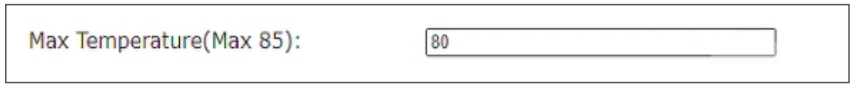


Fig.12

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

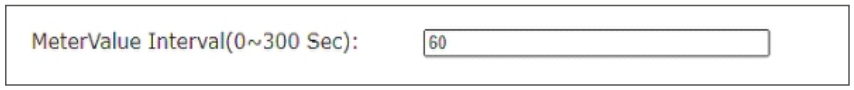


Fig.13

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

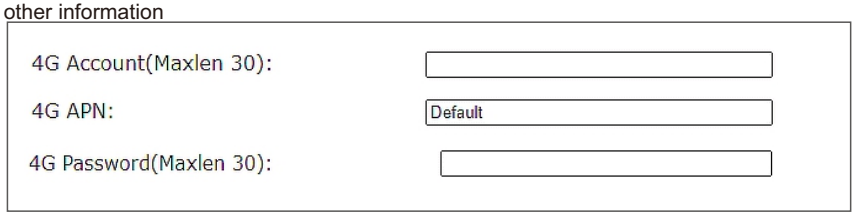


Fig.14

(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.

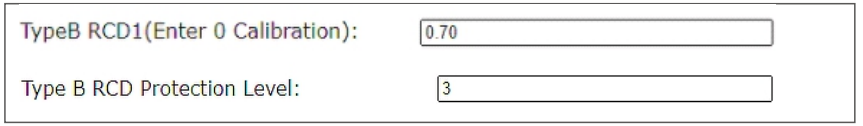


Fig.15

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

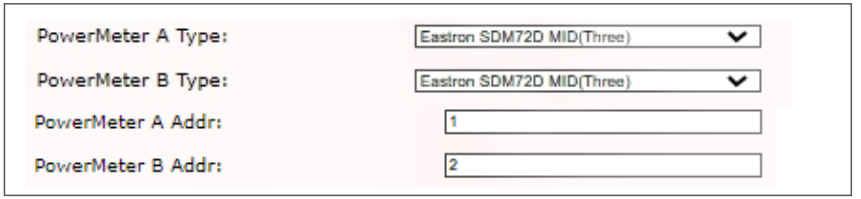


Fig.16

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

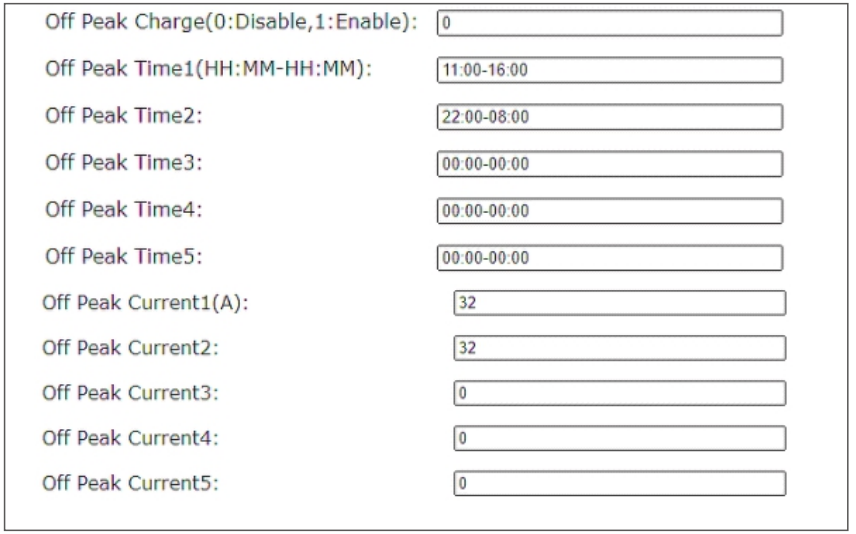


Fig.17

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

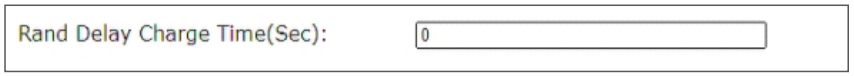


Fig.18

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

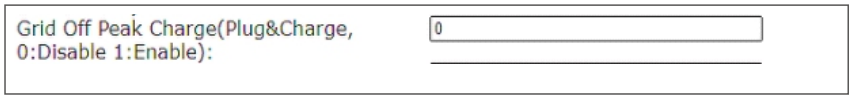


Fig.19

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

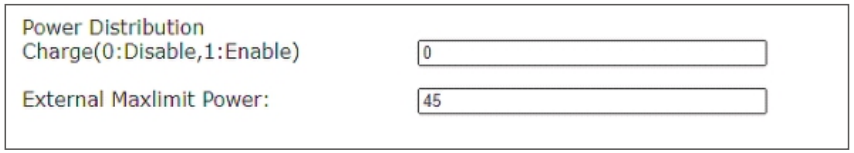


Fig.20

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

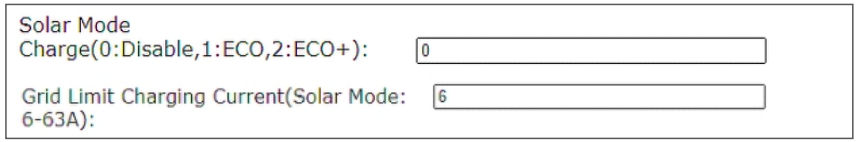


Fig.21

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

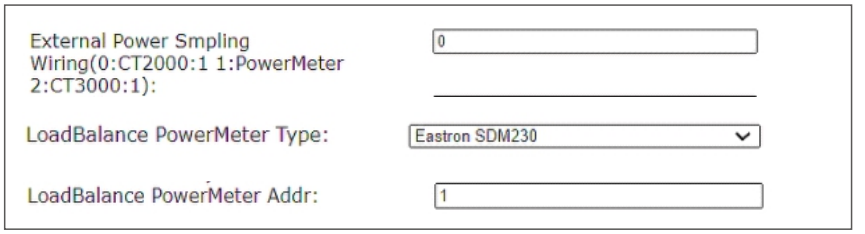


Fig.22

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

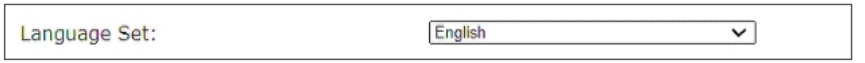


Fig.23

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



Fig.24

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

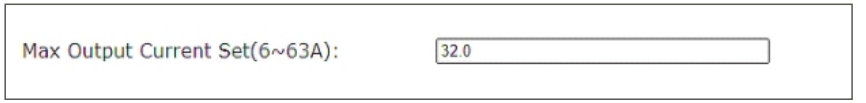


Fig.25

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



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.



Fig.27

(28) Set the tariff for charging energy.



Fig.28

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



Fig.29

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



Fig.30

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

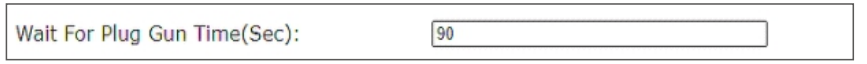


Fig.31

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

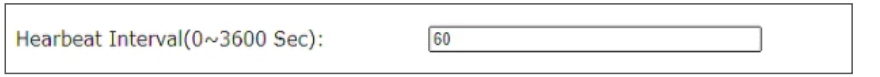


Fig.32

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



Fig.33

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

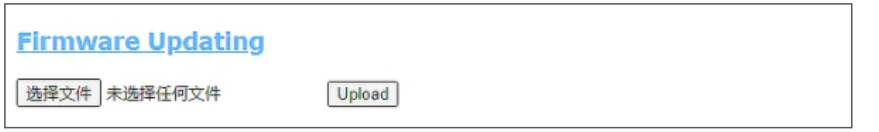


Fig.34

(35) Restore the charger to factory Settings.



Fig.35

V. Operation instruction and LCD description

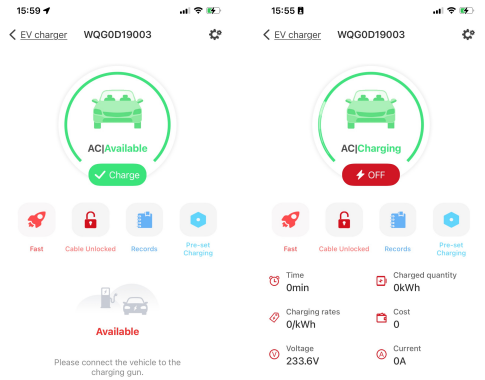
5.1 Charging mode and Operation

APP/RFID 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.

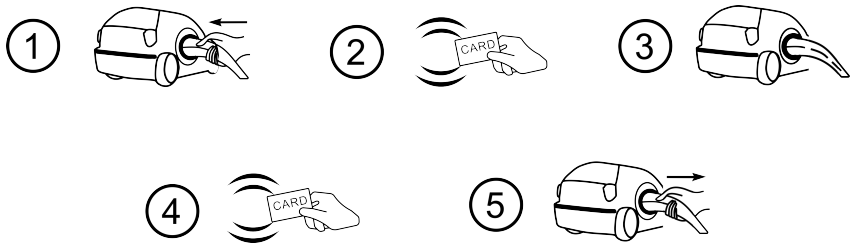


APP/RFID mode operation process flow

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

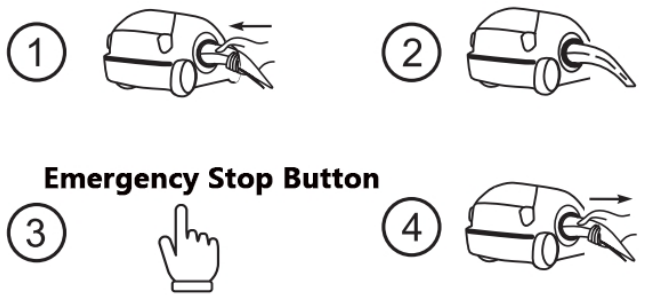


RFID mode:
Charging can only be initiated or ceased by swiping RFID card



RFID mode operation process flow

Plug & Charge:
When the charging gun is inserted into the electric vehicle,The charger will start to charge auto matically . If you want to stop charging,you need to press the menu key and enter the chargingsettings interface then you can select A or B.Reference part 5.2 interface introduction.



Plug & Charge mode operation process flow

5.2 LCD interface introduction

	Interface of stand by status. Charging mode is displayed in the lower right corner of the screen.
	Interface of user card information Displayed for user to check card ID and balance when swiping RFID card while EV is not connected
	Interface of charging status. Displayed when the charging is being carried out. There is charging time, consumed electricity, charging cost on it, as well as real-time charging voltage and charging current.
	Interface of charging complete. Displayed when the electric vehicle stops charging or the charging pile stops charging.
	Iif 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
	Interface of fault status. Displayed with fault code and fault description when fault occurs.

	Press A and B buttons 10s at the same time to enter the debugging interface, you can view IP/serial number and other information. Press either button AB to exit the screen.

VI. Firmware update

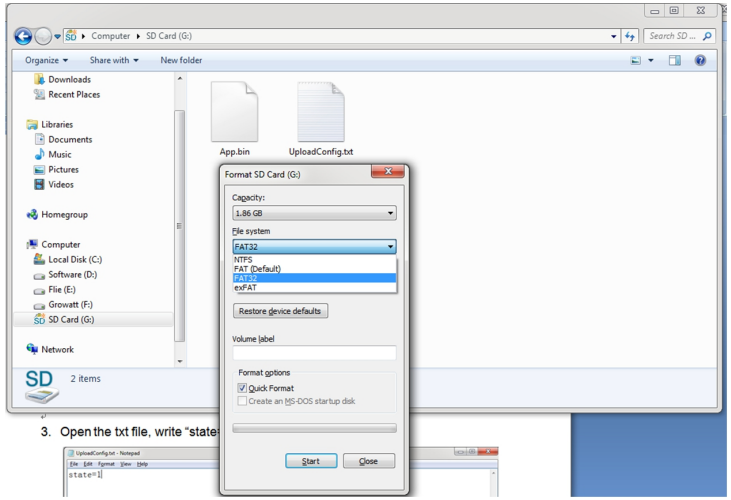
There are 2 ways to update firmware for EV charger

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

6.1 Update by SD card

The firmware file must be named as “App.bin”.

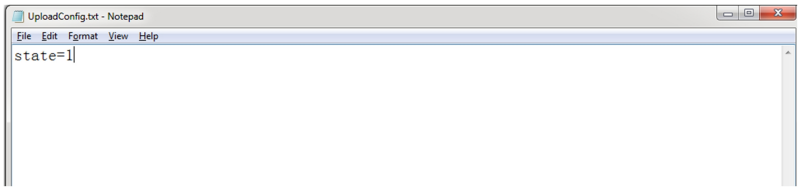
1. Prepare a microSD card with capacity not greater than 4GB. Format the SD card using FAT32.



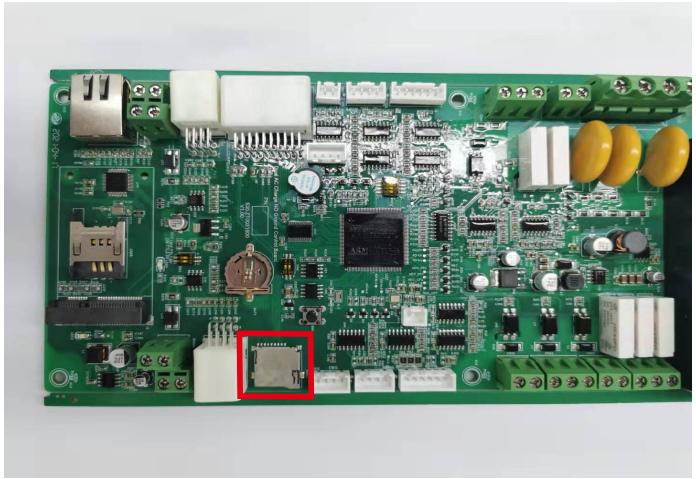
2. In the root directory of the SD card, rename the firmware file as “App.bin”. And create a txt file with name of “UploadConfig.txt”.

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

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



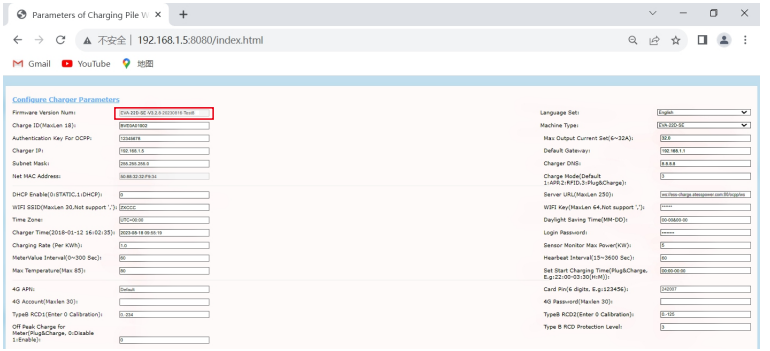
4. Turn off the charger and insert the SD card into the charger, the update will start automatically. The indicator will first flash red and then flash green with a long beep as the end of the update(sometimes the beep sound may not be clearly heard). After the update is done, turn off the charger and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



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

To check FW version on the paramete setting page

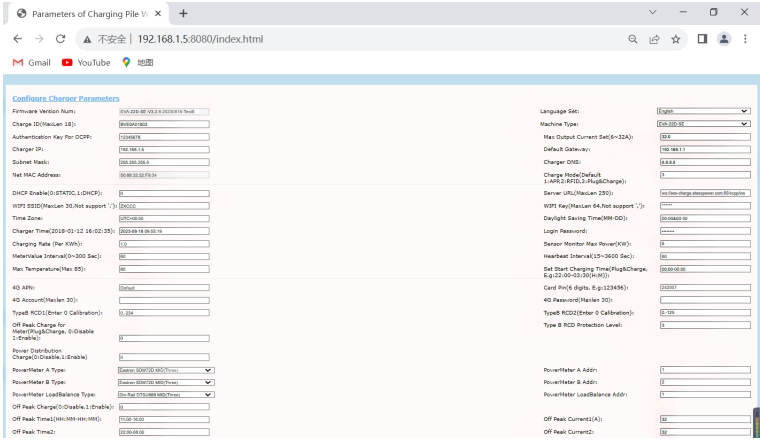
Connect the charger to computer via a network cable, the computer’s IP must be within the 192.168.1.x segment(x is any value between 1 and 255 except 5).Open the web browser, type in the charger’s default IP of “http://192.168.1.5:8080” and click enter, then you can check the firmware version on the 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, then enter the password 12345678 and click enter,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.

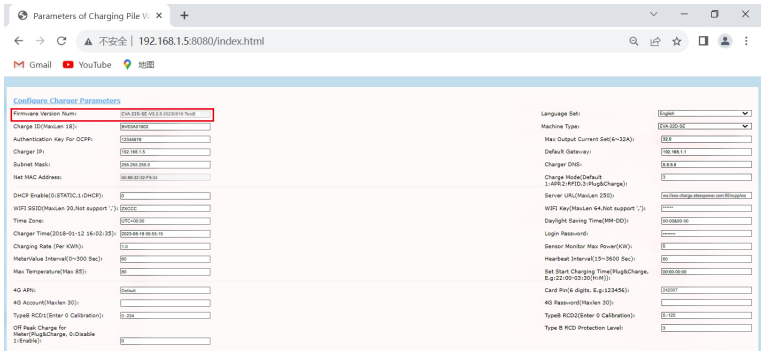
The beep sound may not be audible with the front cover fixed on the charger.

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.







VII. 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.	Error code	Number of flashes	Fault description
1	100	3	The emergency stop button is pressed or broken
2	101	1	Under voltage on phase L3
3	102	2	Under voltage on phase L3
4	103	1	Over voltage on phase L2
5	104	2	Over voltage on phase L2
6	105	1	Over voltage on phase L1
7	106	2	Under voltage on phase L1
8	107	2	Reserved
9	108	4	Over current
10	109	5	Over temperature
11	110	6	DC leakage current detected
12	111	7	RS485 communication fault
13	112	8	Reserved
14	113	9	Type A Switch Fault
15	114	10	Relay Fault
16	115	11	PE fault
17	116	12	PEN fault
18	117	13	In maintenance
19	118	14	Microswitch faulty. Door open will display fault

7.2 Firmware update fails

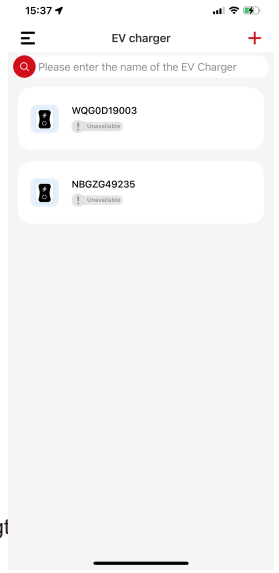
7.2.1 Firmware update failure with SD card:

a. Check if the capacity is over 4G bytes,please use a SD card of less than 4GB to retry;
b. Check if the SD card is formatted with FAT32;
c. Check if the firmware file is renamed as App.bin;
d. 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



a. Check WiFi signal strengt

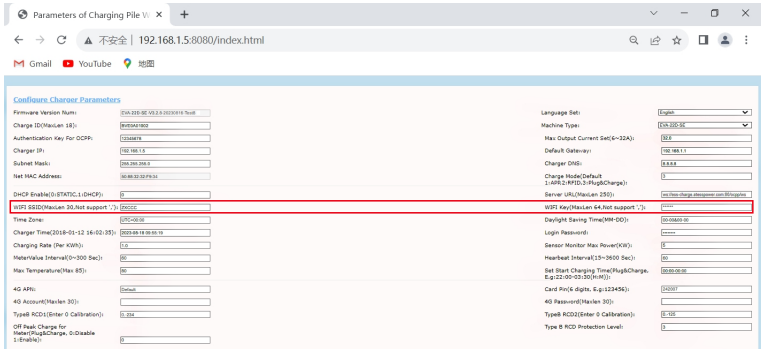
Signal strength on PC:

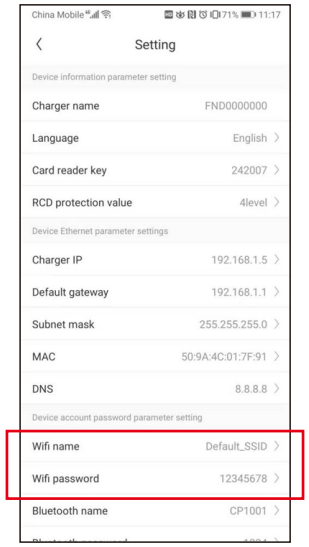


Signal strength on mobile:



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



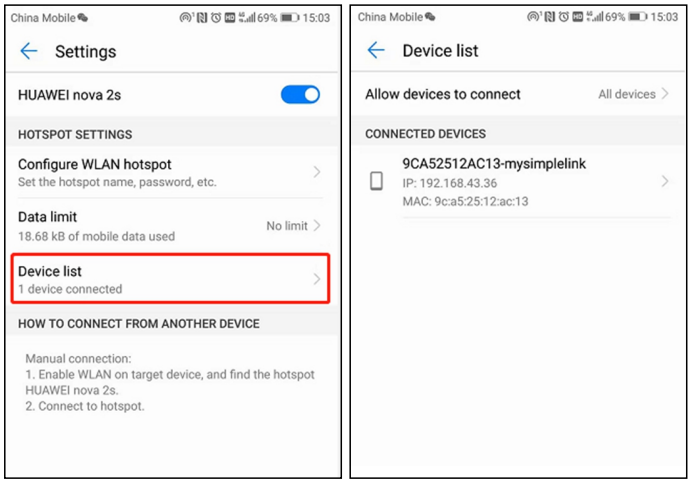


If you check the WiFi setting on the APP,please turn off and back on the charger and connect your mobile to the WiFi emitted by the charger for checking and setting.

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

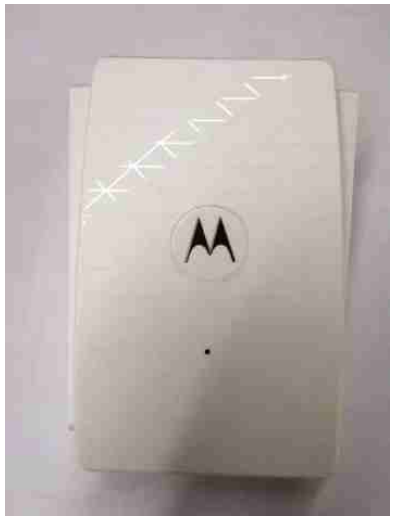


1. Some routers have 2 WiFi, one is 2.4GHz, the other is 5GHz. Most homes just use the 5GHz WiFi as their default WiFi. But the charger can only connect to the 2.4GHz WiFi. So if the charger can connect to your mobile phone hotspot, but cannot connect to the home WiFi. Please check with the home owner 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.

Wireless	Enabled
Wireless Network Name (SSID)	SKYE2496 (2.4 GHz), SKYE9689 (5 GHz)
Wireless Network Visible	Yes
Current Wireless Channel	13 (2.4 GHz), 36 (5 GHz)
Wireless Encryption	WPA2-PSK

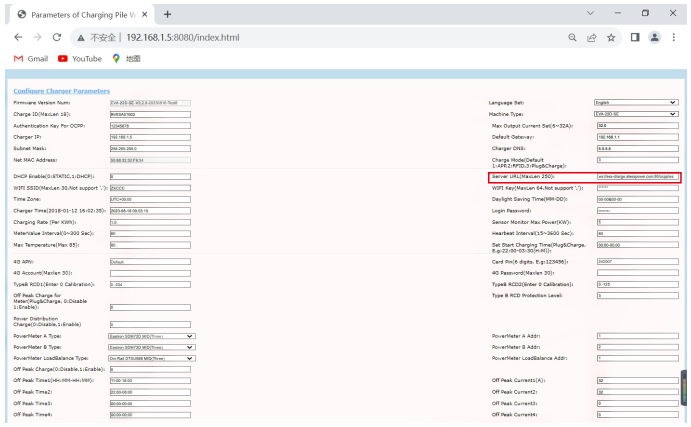
Devices connected to your home network

Device Name	MAC Address
UNKNOWN	70:70:0d:d5:bc:e5
iPhone	88:e8:7f:9e:2f:ac
23C01K568F1LDUZ	20:47:47:3d:85:f4
HUAWEI_nova_2s-8edb2a8f95	ec:89:14:40:3b:9c
iPhone	a8:5c:2c:30:d7:07
Priyas-iPad	78:7e:61:c3:f7:03
LATITUDE-05	34:e1:2d:b5:c7:fa
Priyas-iPhone	b8:53:ac:4d:05:50
UNKNOWN	40:99:22:2a:fc:93
UNKNOWN	00:1b:67:16:d7:82



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://ess-charge.atesspower.com:80/ocpp/ws



7.4 Cannot accessparameter setting page

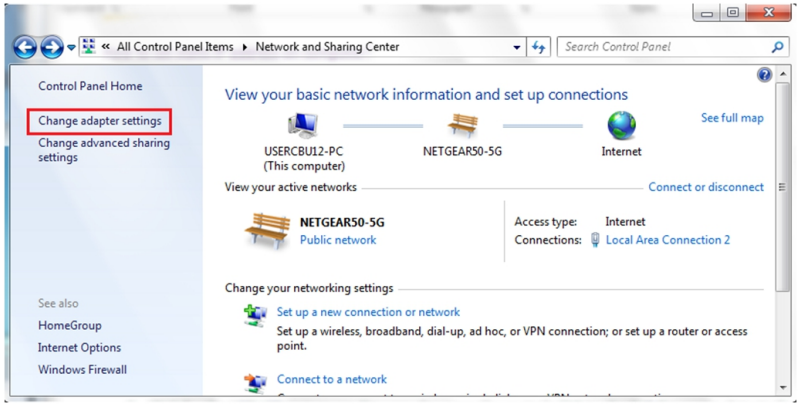
a. Check if you have connected the charger to your computer,

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).

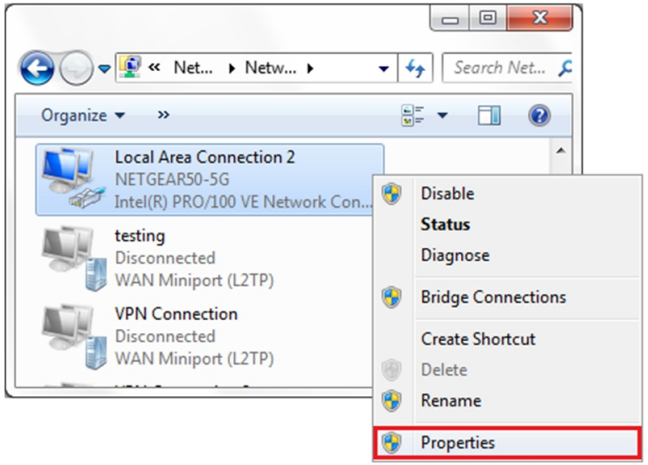
To set a static IP on your Windows computer:

(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).

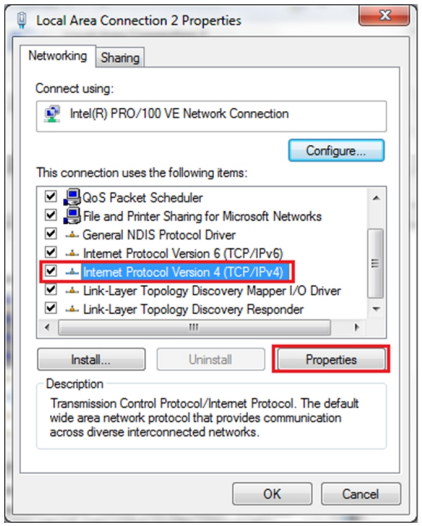
(2). Click Change adapter settings.



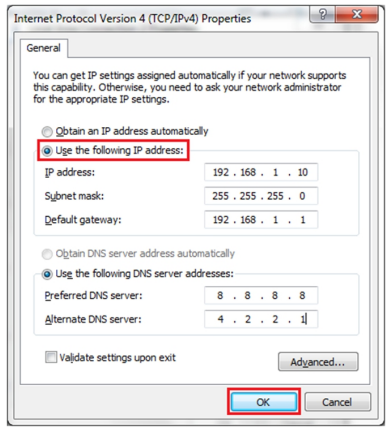
(3). Right-click on Local Area Connection and click on Properties.



(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.

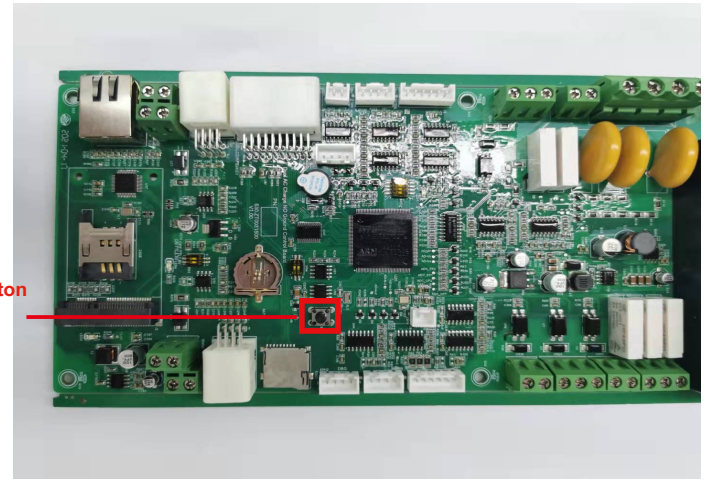


c. Check what web browser is being used, it's suggested to use Firefox or IE, Chrome cannot be used to update firmware.

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,

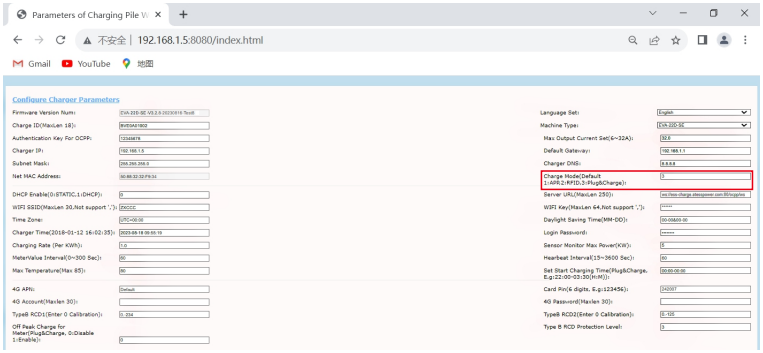
a. Check if the red emergency stop button is pressed.

b. Check what charge mode is being used

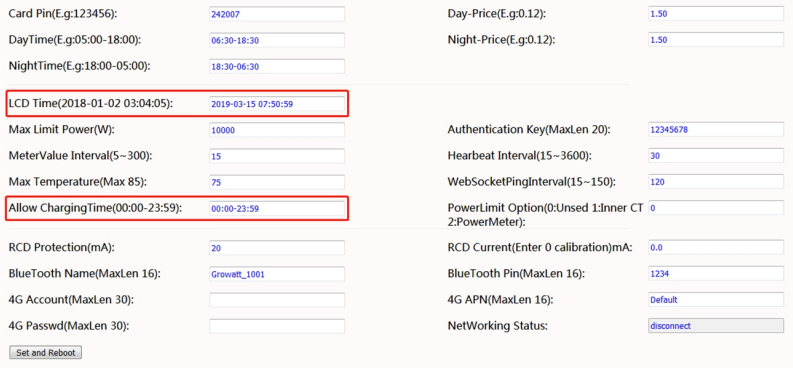
APP/RFID: Charge can only be started/stopped by APP or RFID card, and the charger must be connected to the back office server already;

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

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



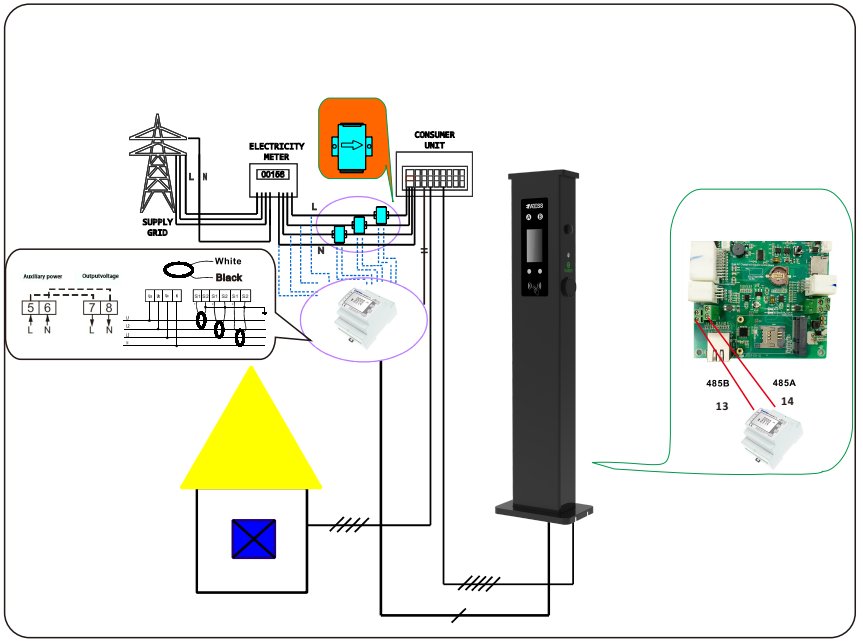
c. Check if off-peak charging is set and if charger's time is correct.
If off-peak charging is set, charge can only start within the charging allowed time period.



VIII. 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.

8.1 Meter is needed to detect the power import, please wire it as below:



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.



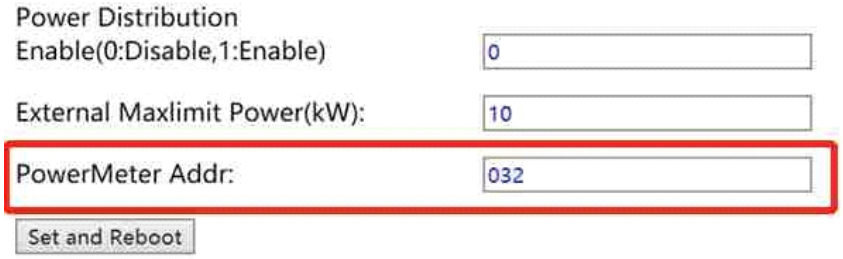
(3) Select power sampling device in the field of the parameter: External Power Sampling Wiring(0: Inner CT 1: PowerMeter). 0 means CT while 1 stands for meter.

External Power Smpling Wiring(0:CT 1:PowerMeter):

（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.



（5) Change PowerMeter Addr to the address shown on the meter, such as 002 shown in the figure below.



IX. 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：Pe stands for rated power, P1 stands for Power

Transferred to Power Grid by Photovoltaic.

1. The power of three-phase charger belongs to（5.3kW-Pe）。
2. The power of single-phase charger belongs to（1.8kW-Pe）。

（2）The condition of changing duty cycle of charger：P2

1. The power of three-phase charger P2=1000W
2. The power of single-phase charger P2=500W

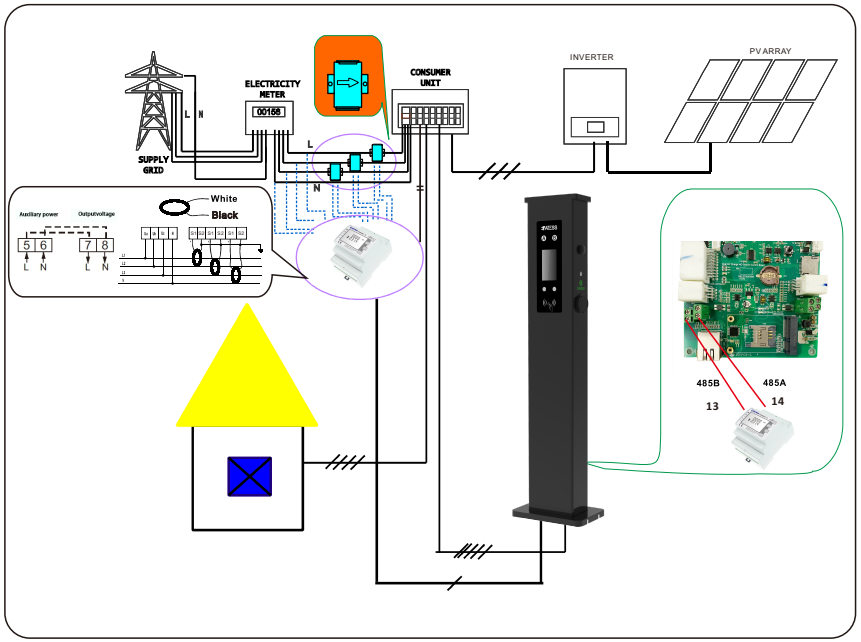
（3）Operation mode：

1. when Initial charging,Permissible output power of charger p3(P3=P)
2. If P1 < P2, Permissible output power of charger P3.(Pe≥P3≥P)
3. If P1≥P2, Charger will Increase Permissible Output Power, When detected during this process P1<P2 or P3=Pe. Charger will stop increasing allowable output power, now the allowable output power of charger P3.(Pe≥P3≥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.

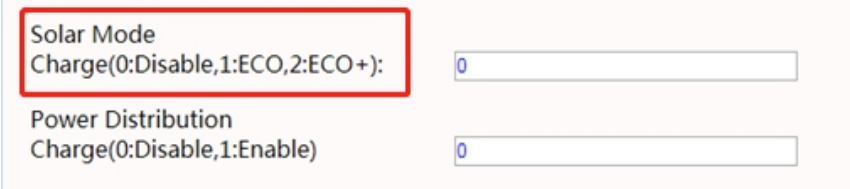
8.2 If meter is used, please wire it as below



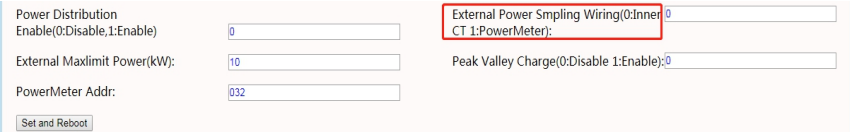
8.3 Parameter configuration for this function

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

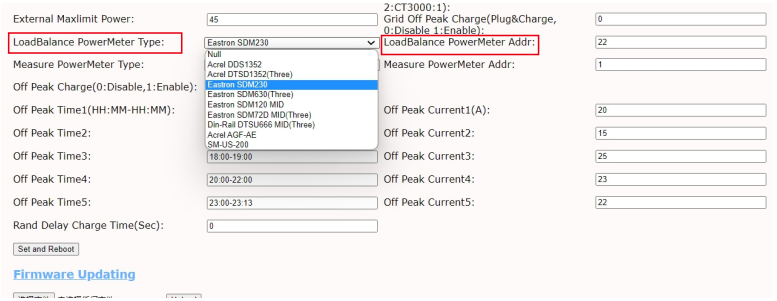
(2) Scroll down to find the following parameters: Solar Mode, FAST, ECO or ECO+.



(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). Please select "meter" set to "1"



(4) Select the type of meter and enter the address on the meter screen



IX. Specification

Model	NOVO EVA-11/22D-SE/PE
Dimension(mm)	420*270*1639(L*W*H)
Weight(kg)	<28
Display	LCD
Casing Material	Stainless steel& Engineering plastics& Tacrylic
Input	
Voltage	AC 400V
Output	
Voltage	AC 400V
Max current	16/32A*2
IP Protection degree	IP65
Working environment temperature	-25℃ ~ +50℃
Relative humidity	5%~95%
Altitude	≤2000m
Frequency	50/60Hz
Communication	Ethernet/WIFI/4G
Charging mode	APP/RFID/Plug and Charge
Standby power	<8W
Standard	IEC-62196-2;EN61851
Mounting	Ground
Certificate	CE/RCM
Protection features	
Overvoltage	450V
Undervoltage	329V
Overcurrent	20/40A
Shortcircuit	Yes
Leakage protection	Type A+6mA DC RCD
Over temperature	Yes
Lightning protection	Type II

XI. Annex1

11.1. APP Introduction

11.1.1 Description

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

11.1.2 Main Function Of ATS Charge

(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

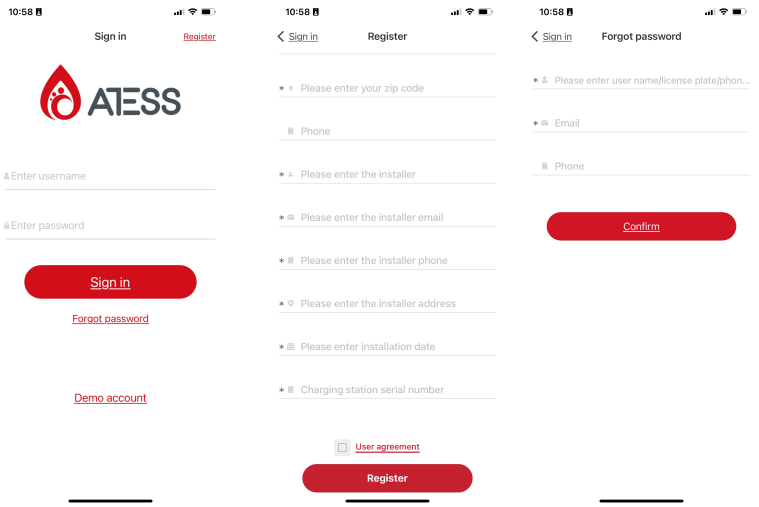
11.2.1 APP download and install

Users can install ATS Charge by scanning the below QR code or download it from the APP store(IOS) or Google paly(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.

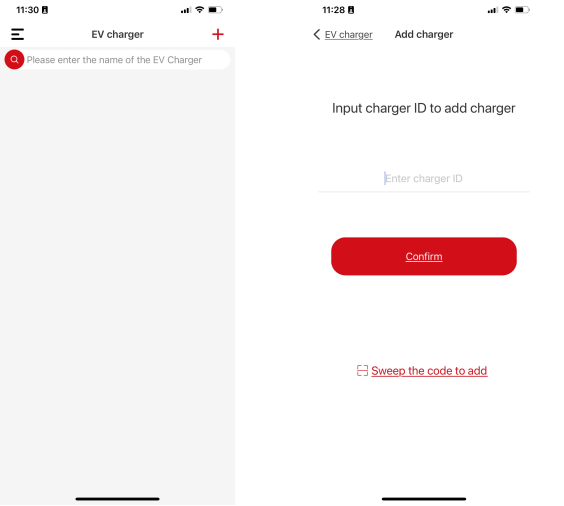


11.2.3 Add Charger

IF you use ATS Charge for the first time, you need to add charger in the APP to facilitate setting and controlling the charger.

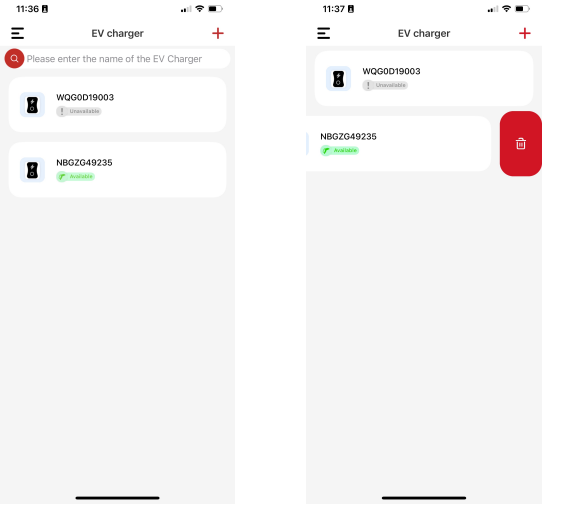
The process of adding a charger is as follows:

Click “Add” to add a charger by scanning the code or entering the charger ID.

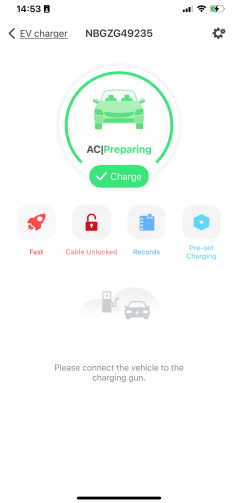


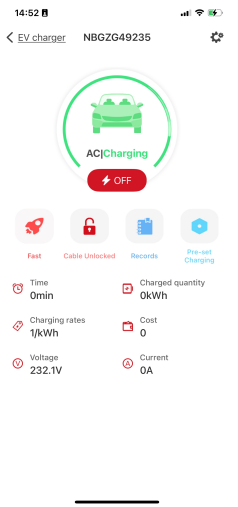
11.2.4 Charger switch and delete

When you have multiple chargers, you can enter the setting charging interface by clicking on the charger. Press and hold the charger and swipe left to remove the charger.



11.2. 5 Start and stop control of charger



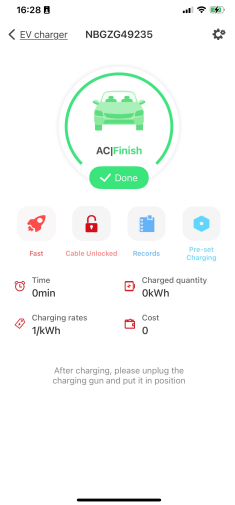


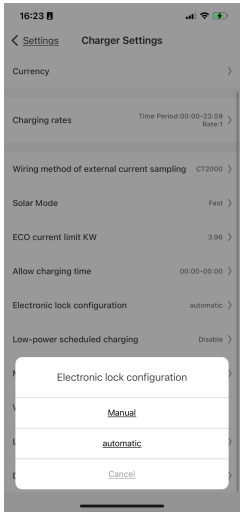
Press “Charge”to turn on/off.

Note: when charger status is Preparing , you can press”Charge” to start charging.

11.2.6 Cable locked

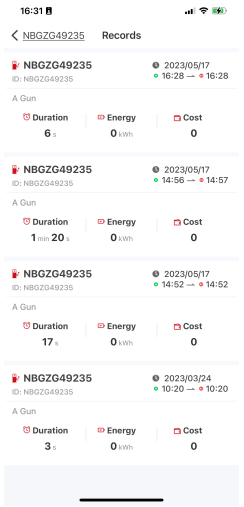
For chargers in the socket version, the connector can be unlocked via this button after setting up the manual unlock function



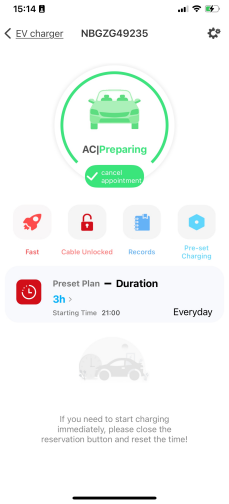


11.2.7 Charging record

Press “Record” to view past charge records, including changer ID, gun number, time, energy, cost and so on.



11.2.8 Preset charging scheme



There are three Pre-set charging schemes: Duration, Cost and Energy. Users can choose one of these options.The scheme can be canceled before the start charging time is reached.

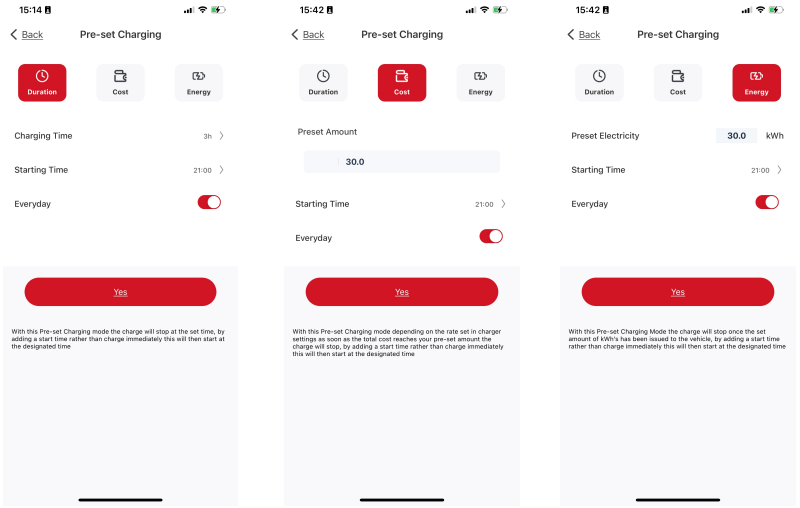
For example, in the "Cost" mode, you can set the amount and stop charging if the amount reaches the set value.

(1) Duration mode: Users can set the duration and start time of charging according to their consumption habits.

(2) Cost mode:Before setting this mode, you need to set the tariffs on the parameter “charger settings” interface, enter the predetermined amount and start charging time, and stop charging when the set amount is reached.

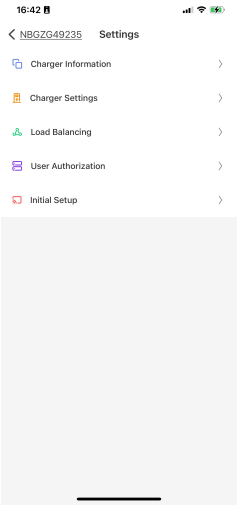
(3) Energy mode:Set the energy ahead of time and the charger will stop charging after reaching the set energy.

Note:The function is always effective after “Everyday” is enabled.



11.2.9 Charger parameter settings

Basic parameter Settings and function Settings of the charger, including Charger information,Charger settings, load balancing ,user authorization and initial setup.



●Charger Information

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

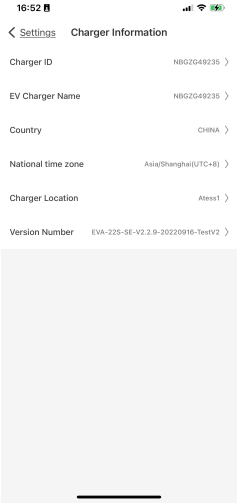
EV Charger Name

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

National time zone:Set the current time zone so that the charger displays the correct time;

Charger Location

Verison Number: Firmware version of the charger.



●Charger Settings

Method of Control : Three modes control the charging of the charger,APP,RFID and plug and charge.

Currency: Select the currency in which the charge is settled and the charge report displays the bill with currency.

Charging rates: The charge tariff is used to calculate the cost of electricity consumed. The charge report shows the total cost.

Wiring method of external current sampling:The load balancing function and the solar function detect the type of tool for fuse or gird power. CT2000,CT3000 and meter.

Solar Mode:The Solar feature works in three ways, Fast,ECO and ECO+.In ECO mode, you need to set the power that can be allowed obtain from the grid.

ECO current limit kw：In solar mode, part of the charging energy comes from the photovoltaic and part from the grid. Here, set the power that is allowed to be obtained from the grid.

Allow charging time：The amount of time the charger is allowed to charge during the day.

Electronic lock configuration：Set the way to disconnect the connector after charging. You can unlock the connector manually or automatically through the APP.

Low-power scheduled charging：After the car is connected to the charger,and start a pre-set charging session,the charger will output Minimum power before reaching the set time.

Maxiumum output curret of electric pile(A): Limit the output capacity of the charger.For example, a 7kw charger with a maximum output of 32A can limit the output power by limiting the output current.Calculation mode:

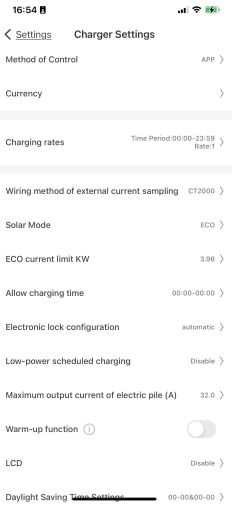
single phase charger: 230V*(XX)A=XX(kw) , 230V*32A=7.36kw

Three phase charger: 230V*(XX)A*3=XX(kw) , 230V*32A*3=22kw

Warm-up function: After the car starts preheating function, it will not consume the electric energy of the battery, which is provided by the charger.

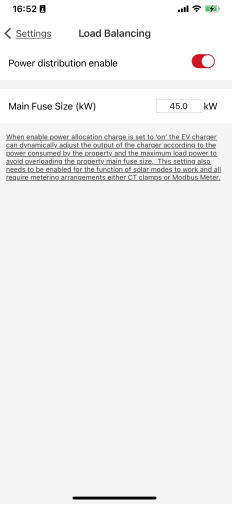
LCD: For the charger with LCD screen, you can control the LCD on or off.

Daylight Saving time settings: Set the time when daylight saving time starts and ends, and the charger displays the correct time.



●Load balancing

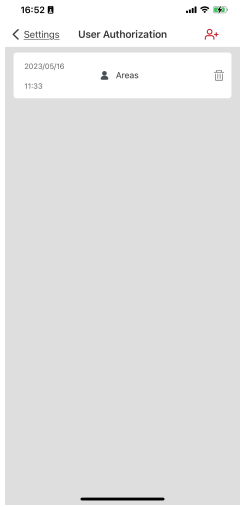
Main fuse size(kw):Set the total capacity of the home grid to maintain a balance between load and charger to avoid overload trips.

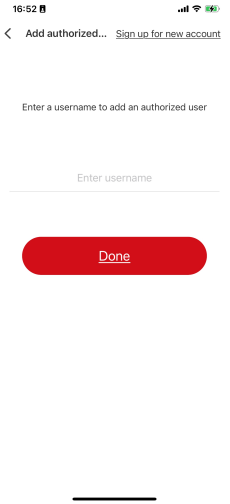


●User Authrization

To manage authorized users, you can view the authorization time, account name, and delete user in the authorization management interface.

Users can authorize other users to use charging stubs through authorization management. Enter the user name to authorize other users to use the chargepoint. If the person you want to authorize does not have an account, you can register for the new user by registering the new user in the upper right corner.





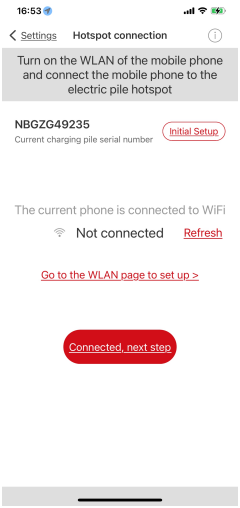
●Initial Setup

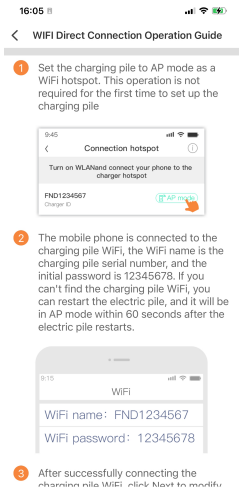
When the charger is not connected to the server, every 60 seconds will switch to AP mode. search for the charger WiFi, and the WiFi name is the charger ID. After connecting the charger WiFi, you can enter the setting page to set the parameters of the charger. When the charger is connected to the network, you can switch to AP mode in the parameter setting, set the charger to AP mode, and then connect.

Switching to AP mode can switch the STA mode to AP mode. If it is not operated for 60s, it will switch back to STA mode and connect to the server.

Click the "initial setup" button to enter the hot spot connection page. When connecting WiFi at the charging point, please note the serial number of the current stub. The connected hotspot must be the charger ID.

Click the upper right corner of the hotspot connection page to view the operation instructions of the WiFi Direct connection function.





●IOnly when the charger is in AP mode can you use the phone to connect to the charger. The charger ID is displayed in AP mode and the pile parameters can be set.

Pay attention to the format restrictions of the parameters when setting the pole parameters.

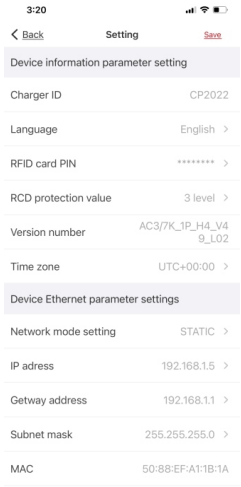
(1) IP address, gateway, mask, and DNS should be filled in according to the four-segment number format, for example: 192.168.1.1

(2) The following parameters must be integers: heartbeat interval (5-300), PING interval (5-300), meter upload interval (5-300), maximum output current of the pole (greater than 3), protection temperature (65 -85), externally monitors the maximum input power (greater than 3).

(3) rate range is (0-5000), you can set the decimal.

(4) The following parameters can only be numbers or letters: card reader key, WIFI password, Bluetooth password, 4G password, 4G APN, handshake login authorization key.

(5) The following parameters can only enter numbers, uppercase and lowercase letters, ion page to view the operation instructions of the WiFi Direct connection function. underscores (_), spaces, bars (-): wifi name, Bluetooth name, 4G username.



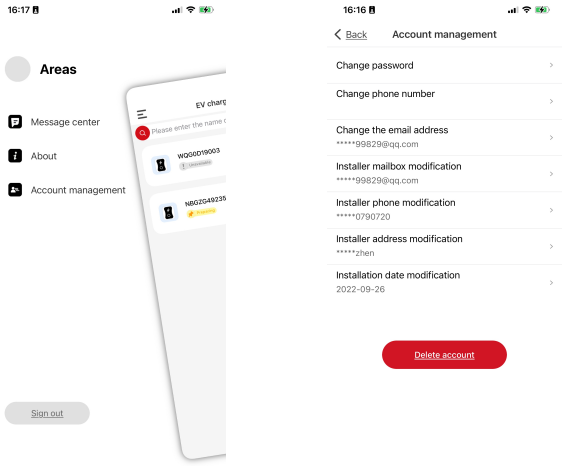
11.2.10 Account Management

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.

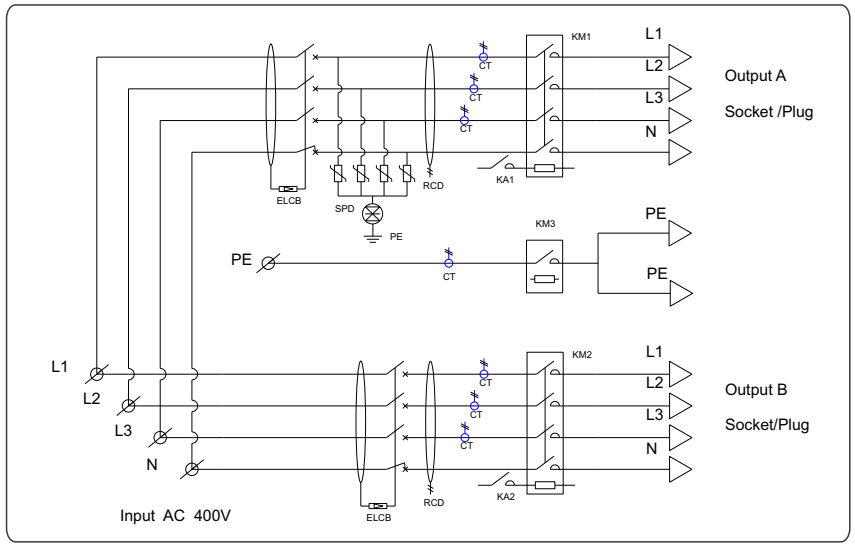
Modify the phone number: Follow the steps to verify the new phone number with a verification code.

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



XII. Annex2

11.1 Electrical diagram



11-1. Main circuit diagram

11.2 Contact

Shenzhen ATESS Power Technology Co.,Ltd

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

Website:www.atesspower.com

Service line:+8675529988492

E-mail : service@atesspower.com