

WB-11/22D

*Dual output AC charge station
Three-phased and single-phased*



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AVERTISSEMENT

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WB Series Smart Single Phase AC Charger is a power device that uses professional and advanced technology to provide power to electric vehicles, it also has an ergonomic interface and versatile control, billing and communication functions. . The charger can be connected to a back office server to perform booking and payment functions via the Mobile phone application. Diverse communication options including wired Ethernet, WIFI, 4G are available for connection to the back office server.

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



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PRODUCT DESCRIPTION

1. LOGO and logo backlight
2. Status indicator
3. LCD Display
4. WIFI/4G Antenna
5. Emergency stop button
6. Settings button
7. RFID reader
8. Socket outlet (plug holder for cabled version)



PACKAGING LIST

| NO. | NOM | QTE | REMARQUES |
|-----|---|-----|--|
| 1 | Charger | 1 | |
| 2 | User manual | 1 | |
| 3 | Quality certificate | 1 | |
| 4 | Mounting bracket | 1 | |
| 5 | Cable hook | 1 | For cabled version |
| 6 | ST6.3X40 Stainless steel hex-head self-drilling screws | 4-7 | 4 for socket version, 7 for cabled version(3 of the 7 screws is for cable hook fixing) |
| 7 | 12X46 Plastic expansion plugs | 4-7 | 4 for socket version, 7 for cabled version(3 of the 7 plugs is for cable hook fixing) |
| 8 | User card | 4 | |

1

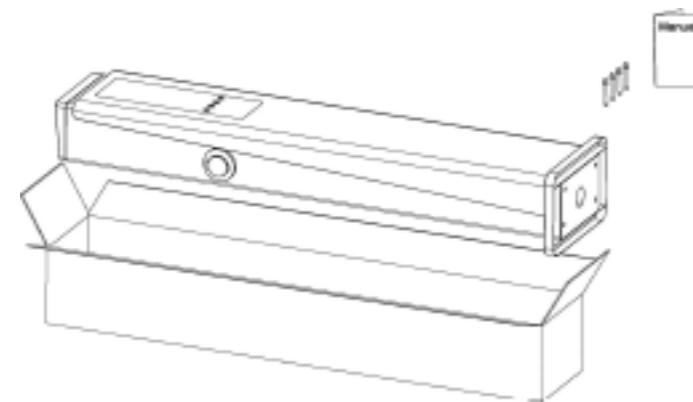
2



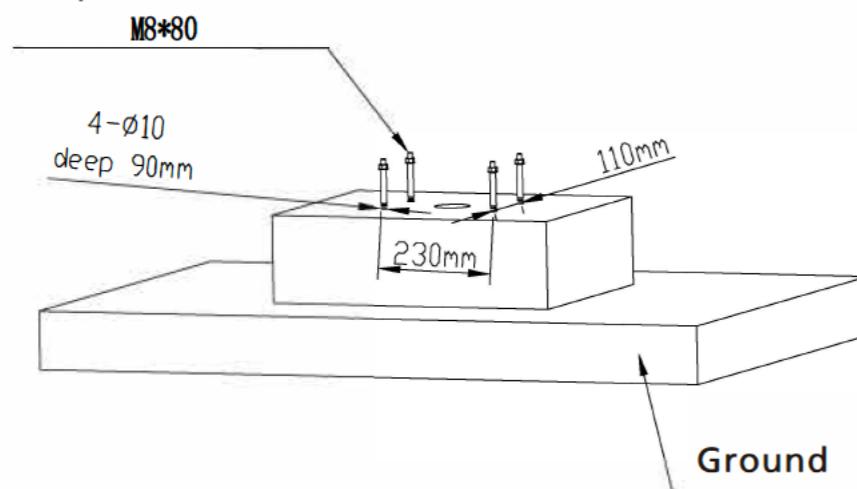
INSTALLATION AND WIRING

1. Installation on the ground

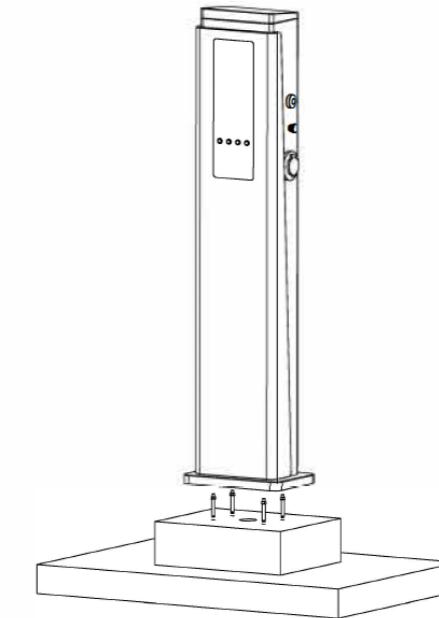
2. Open the packaging, you'll see a charge point, a mounting bracket, a user manual and a bag of mounting accessories. There is also an RFID card if the charge point is RFID version. For cabled version, a cable hooker is also included inside.



3. The chargepoint 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.

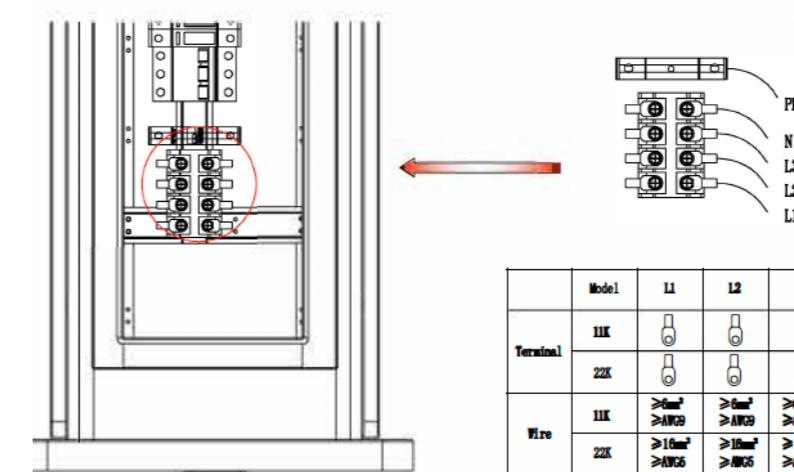


4. Fix the chargepoint onto the hales with expansion bolts. The input cables shall go into the pole from the bottom middle area and come out of it from the area below the cable hooker.



5. 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 | I1 | I2 | I3 | N | PE |
|----------|-------|-----------------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|
| Terminal | 1K | | | | | |
| | 2K | | | | | |
| Wire | 1K | >1mm ² ≥ AWG9 | >6mm ² ≥ AWG9 | >6mm ² ≥ AWG9 | >6mm ² ≥ AWG9 | >6mm ² ≥ AWG9 |
| | 2K | >1mm ² ≥ AWG6 | >10mm ² ≥ AWG5 | >10mm ² ≥ AWG5 | >1mm ² ≥ AWG6 | >1mm ² ≥ AWG6 |



PARAMETER SETTING

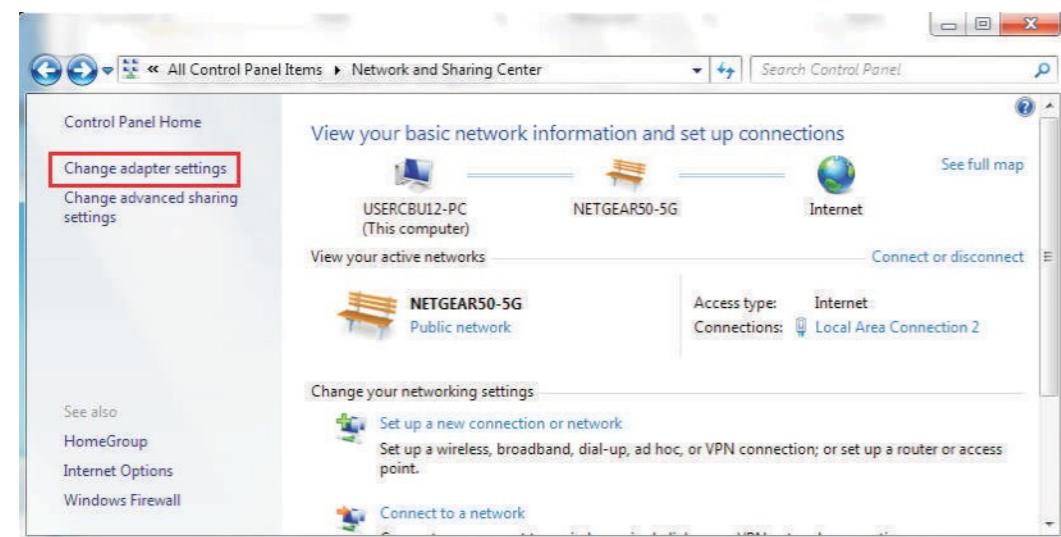
After the installation and wiring is done, connect the Charger to a computer and configure parameters via the web browser of the computer, then the Charger can be ready for use

Set computer's IP

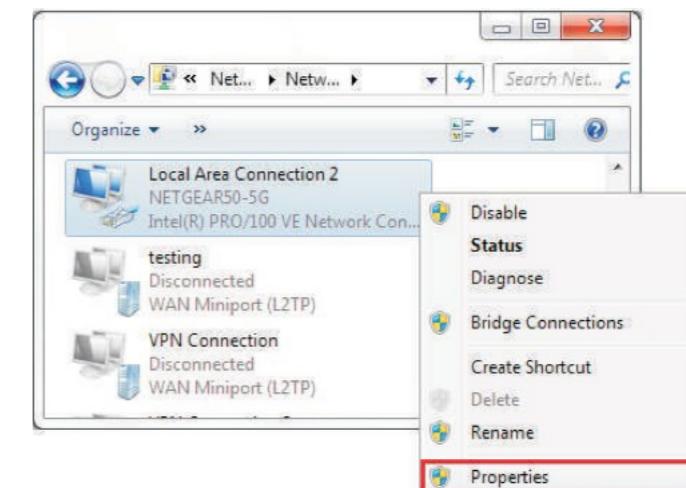
1. The Charger's default IP address is 192.168.1.5. To access the parameter setting interface, you'll need to first set the computer's IP to 192.168.1.x(x can be any value between 1 and 255 except for 5, e.g. 192.168.1.10).
To set a static IP on your Windows computer:

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).

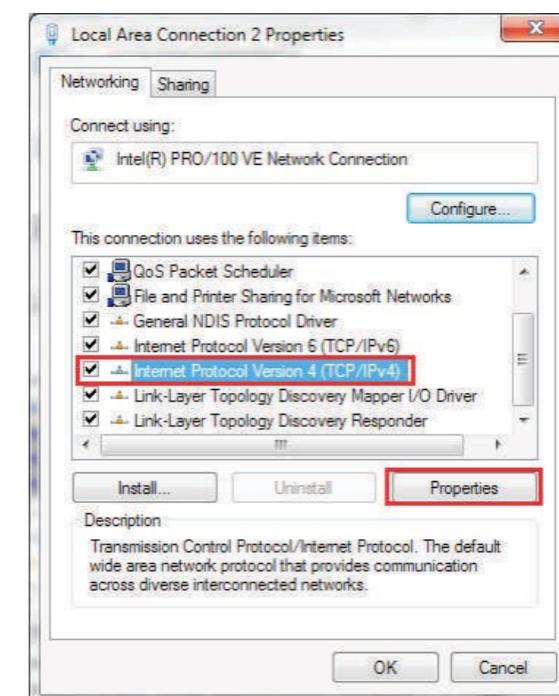
Click Change adapter settings



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



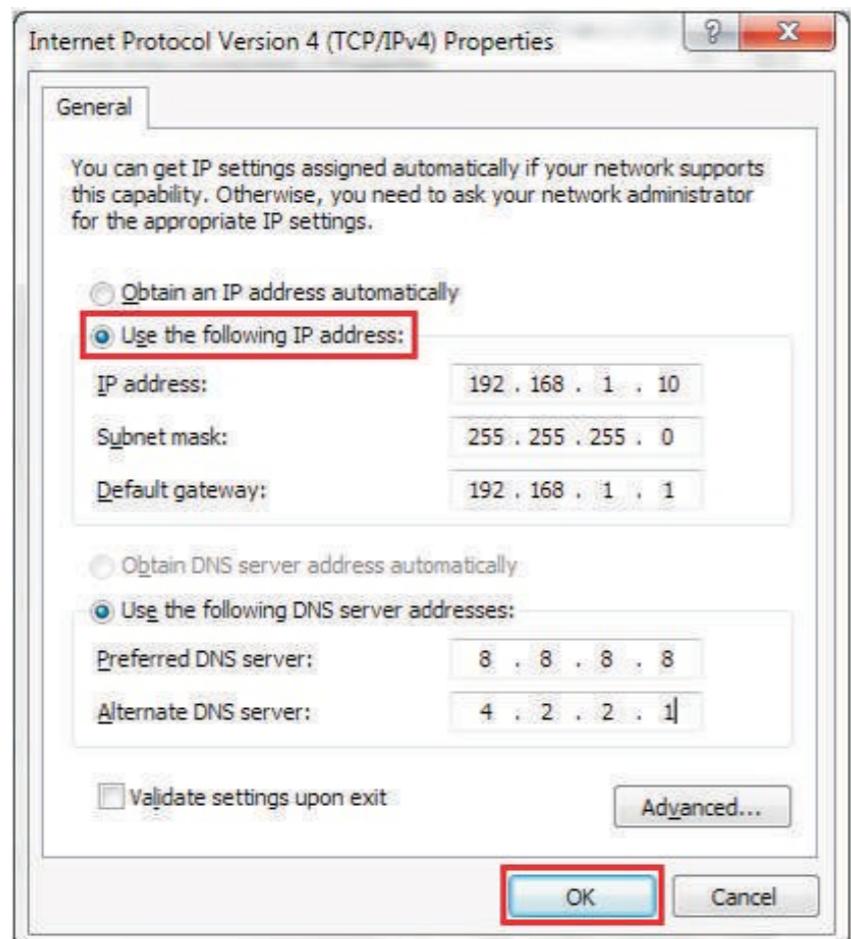
3. Select Internet Protocol Version 4 (TCP/IPv4) and click on Properties.





PARAMETER SETTING

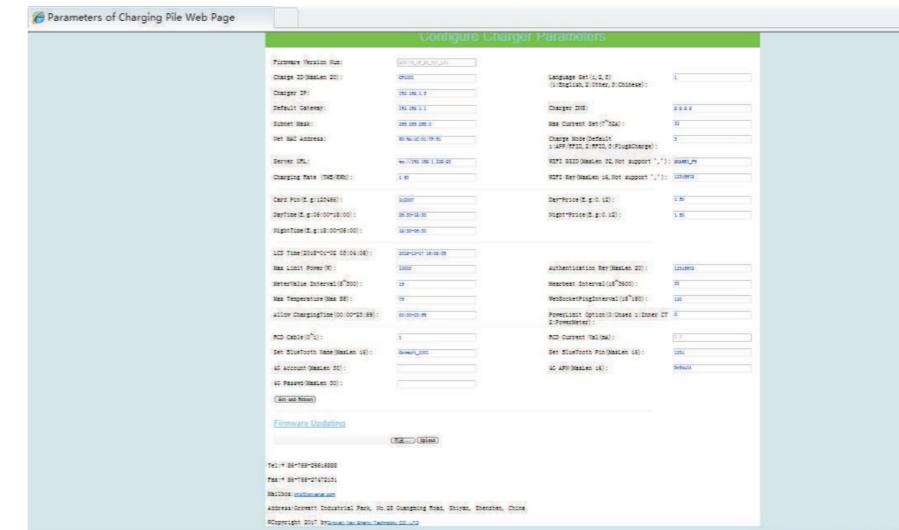
- 3.** Select «Use the following IP address» and enter the IP address, Subnet Mask, Default Gateway. Click OK and close the Local Area Connection properties window.



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 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



Enlarged view of parameter setting page_J



Enlarged view of parameter setting page_2



PARAMETER SETTING

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

Firmware Version Num: (1)

FIG 1

(2) Charger ID, this is the unique identification of the Charger. If the charger is to be connected to 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.

Charge ID(MaxLen 20): (2)

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.

Charger IP: (3)

FIG3

(4) Charger gateway. The default value is 192.168.1.1. It is not suggested to change. If the gateway 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.

Default Gateway: (4)

FIG 4

(5) 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.

Subnet Mask: (5)

FIG 5

(6) MAC address. This is the MAC address used for LAN cable connection. If the charger is connected to 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: (6)

FIG 6

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

The domain name of server IP address is "ws://47.254.157.66:80/ocpp/ws". Authentication Key and Heartbeat Interval is used for testing and no need to reset.

Server URL: (7)

Authentication Key (MaxLen 20): (29)

Heartbeat Interval(15~3600): (30)

FIG 7

(8) Charging fee per unit of electricity.

Charging Rate (THB/kWh) : (8) 1.50

FIG 8

(9) 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.

Card Pin(E.g:123456): (9) 242007

FIG 9

(10) Peak time period. Set the time period of peak tarif.

DayTime(E.g:05:00-18:00): (10) 08:30-18:30

FIG 10

(11) Off-peak time period. Set the time period of off-peak tarif.

NightTime(E.g:18:00-05:00): (11) 18:30-06:30

FIG 11

(12) 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.

Language Set(1, 2, 3) (13)
(1:English, 2:Other, 3:Chinese): 1

FIG 13

(14) Charger DNS setting, this only needs setting when the charger is to connect to server via LAN cable.

Charger DNS: (14) 8.8.8.8

FIG 14

(15) Set the max output of the charger.

Max Current Set(7~32A): (15) 32

FIG 15

(16) Charging mode setting. 1: APP/RFID mode; 2: RFID mode; 3: Plug&C harge mode.

Charge Mode(Default (16))
1:APP/RFID, 2:RFID, 3:Plug&Charge): 3

FIG 16

(17) (18) WiFi SSID(wireless network name) and WiFi Key(WiFi password) is used for WiFi connection.

WIFI SSID(MaxLen 32, Not support (17)): HUAWEI_P9

WIFI Key(MaxLen 16, Not support (18)): 12345678

FIG 17 et 18

(19) (20) Set peak tariff and off-peak tariff.

Day-Price(E.g:0.12): (19) 1.50

Night-Price(E.g:0.12): (20) 1.50

FIG 19 et 20

(13) Language of LCD screen.

11

12

(21) (32) (22) Max power import to the property, Power sampling device selection, meter value collection interval. These 3 parameters are used for power management setting.

Max Limit Power(W): (21) 10000
PowerLimit Option(0:Unused 1:Inner CT 2:PowerMeter): (32)
MeterValue Interval(5~300): (22) 15

FIG 21 - 32 - 22

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

Max Temperature(Max 85): (23) 75

FIG 23

(24) Charging-allowed time. Charging can only start within this time period. This is used for off-peak charging setting.

If you want to charge out of this period, just press the forced on/off button at the side of the charger.

Allow ChargingTime(00:00-23:59): (24) 00:00-23:59

FIG 24

(25) DC residual current sampling value calibration. Enter 0 and press "Set and Reboot" to calibrate the DC RCD ring.

RCD Cable(0~1): (25) 1

FIG 25

(26) (34) Bluetooth setting. Only needs setting when the charger is equipped with Bluetooth.

Set BlueTooth Name(MaxLen 16): (26) Growatt_1001
Set BlueTooth Pin(MaxLen 16): (34) 1234

FIG 24 et 34

(27) (28) (35) 4G connection setting.

4G Account (MaxLen 30): (27)
4G Passwd (MaxLen 30): (28)
4G APN (MaxLen 16): (35) Default

FIG 27 - 28 - 35

(31) This is for communication testing, no need to reset.

WebSocketPingInterval(15~150): (31) 120

FIG 31

(33) DC residual current real-time detection value

RCD Current Val(mA): (33) 0.0

FIG 33

(36) Press this button for the parameter change to take effect.

Set and Reboot (36)

FIG 36

(37) This is used to upgrade firmware.

Firmware Updating
 浏览... Upload (37)

FIG 37



Operation instruction and LCD description

Charging mode and Operation

APP/RFID mode:

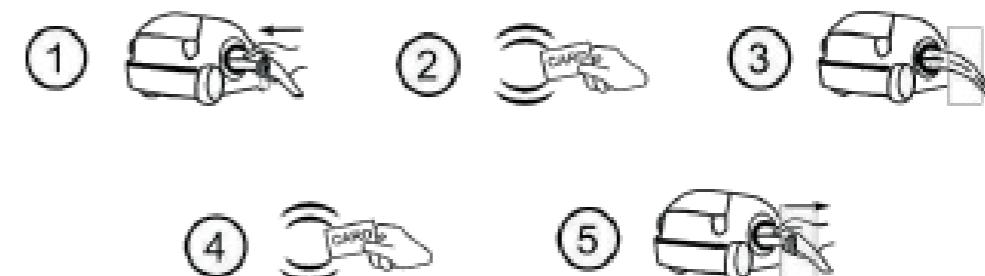
Initiate or cease charging by scanning QR code using APP or by swiping RFID card. You can also use APP for reservation and payment provided that the back-office server supports such functions.



APP/RFID mode operation process flow

RFID mode:

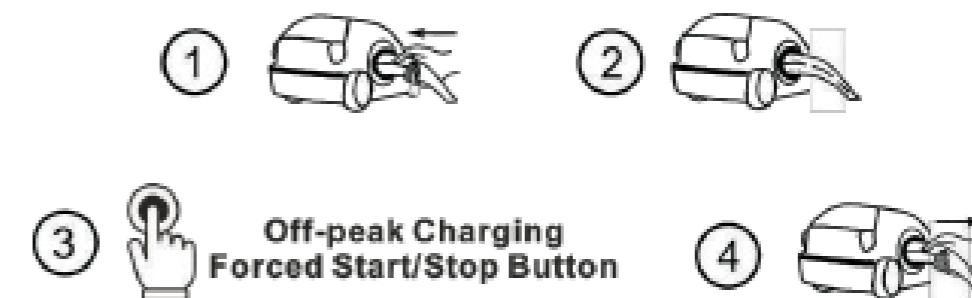
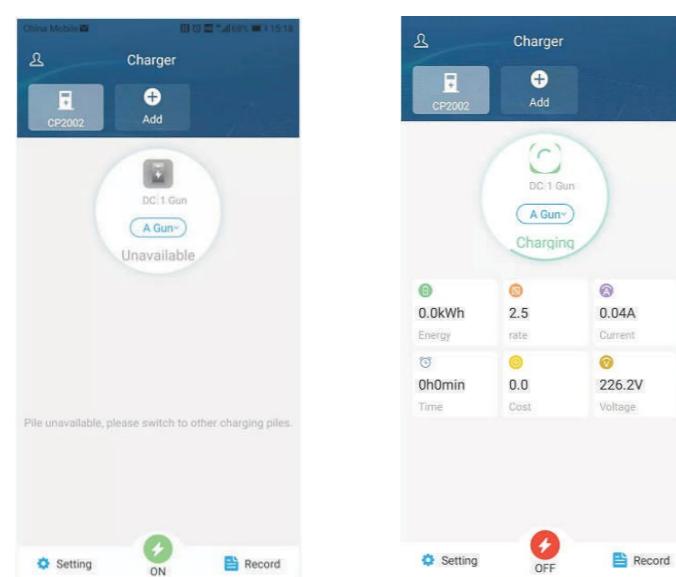
Charging can only be initiated or ceased by swiping RFID card.



Plug&Charge:

Charging will start automatically after EV plugged in. If you want to stop the charging, just press the forced on/off button on the side of the charger,

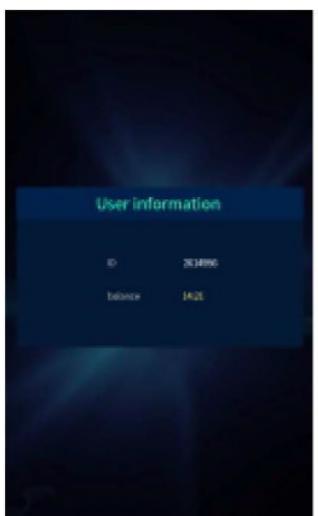
If you are using the ProjectEVA APP, Charging can be started/stopped by pressing the ON/OFF button on the APP.



LCD interface introduction



Interface of standby status.
Charging mode is displayed at the bottom centre 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



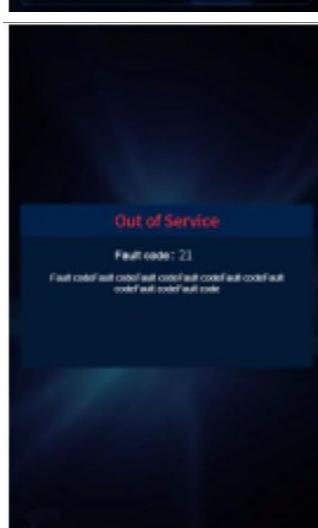
Interface of charging status.
Displayed when the charging is being carried out. There is charging time, consumed electricity, charging cost on it, as well as real-time charging voltage and charging current.



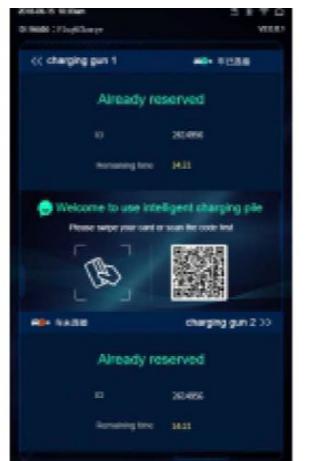
Interface of charging complete.
Displayed when the EV stops charging, or forced on/off button is pressed on charger side.



Interface of billing.
After scanning QR code or swiping RFID card for billing, this interface will open up to display user ID/charging time/cost/balance, etc. This interface will also come out when you stop charging on the APP or when you press the forced on/off button or unplug the gun atPlug&Charge mode.



Interface of fault status.
Displayed with fault code and fault description when fault occurs.



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.



Interface of unlock setting. In the electro-magnetic lock failure state, you can choose to unlock A or B



Press the menu button to enter the charge station setting interface



Interface of language setting. You can choose English or Chinese



Interface of charge setting. In the charging setting interface, you can choose A or B to start and stop



Interface of Charge mode setting.
You can set different charging contrai modes (APP/RFID, RFID, Plug&Charge)



Firmware update

There are 2 ways to update firmware for EV charger

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

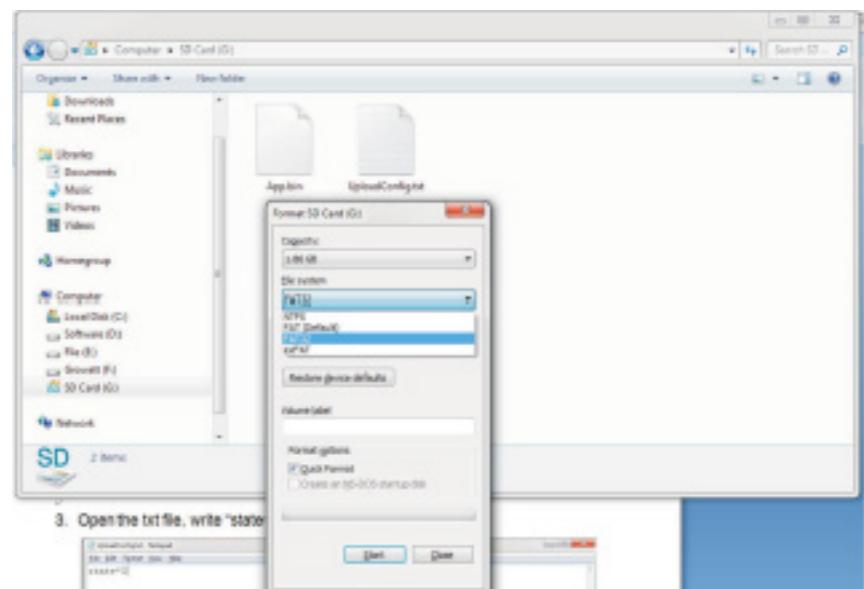
| | | | |
|------------------|-----------------|--------|--------|
| App.bin | 2018/12/5 15:58 | BIN 文件 | 168 KB |
| UploadConfig.txt | 2018/12/6 15:04 | 文本文档 | 0 KB |

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

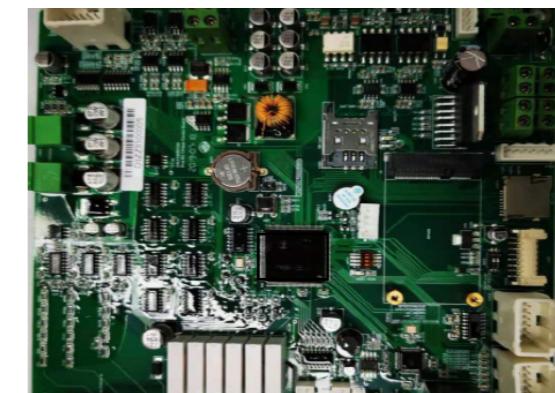
Update by SD card

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

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



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.



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».

Micro SD slot of dual output 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.

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.

Scroll down to the below field.

2. Click the 浏览 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.

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.

3. You might see the content below. If the charger already reboots successfully after updating the firmware, close the browser and reopen it to check the current firmware version.

TROUBLESHOOTING

Troubleshoot by LED behavior or LCD display

I

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

| No. | Error code on the LCD screen (if available) | Fault Description |
|-----|---|--|
| 1 | 100 | The red emergency stop button is pressed or broken |
| 2 | 101 | Over voltage on phase L3 |
| 3 | 102 | Under voltage on phase L3 |
| 4 | 103 | Over voltage on phase L2 |
| 5 | 104 | Under voltage on phase L2 |
| 6 | 105 | Over voltage on phase L1 |
| 7 | 106 | Under voltage on phase L1 |
| 8 | 107 | Under voltage on all 3 phases |
| 9 | 108 | Over current |
| 10 | 109 | Over temperature |
| 11 | 110 | DC leakage current detected |
| 12 | 111 | RS485 communication fault |
| 13 | 112 | Lightning communication fault |
| 14 | 113 | Reserved |
| 15 | 114 | Reserved |
| 16 | 115 | Reserved |
| 17 | 116 | Reserved |
| 18 | 117 | Reserved |
| 19 | 1000 | other faults |

Please see the table below for detail information

TROUBLESHOOTING

Firmware update fails

1. Firmware update failure with SD card :
2. Check if the capacity is over 4G bytes, please use a SD card of less than 4G to retry;
3. Check if the SD card is formatted with FAT32;
4. Check if the firmware file is renamed as App.bin;
5. Check if you have filled in "state=1" in the UploadConfig.txt file.
6. Firmware update failure with laptop:
Please try with IE browser. Or reboot the laptop to retry.

Check WiFi signal strength;
Signal strength on PC:

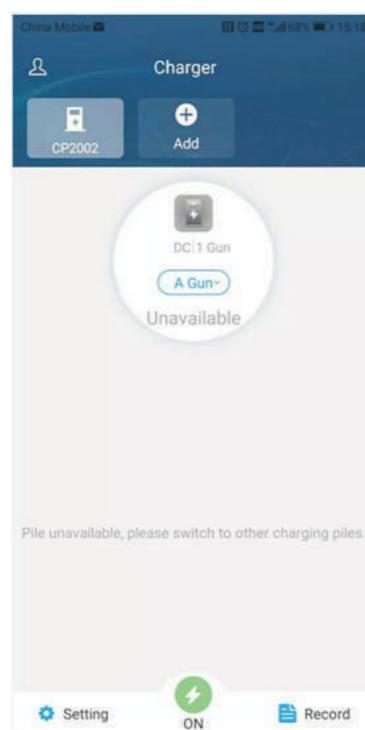


Signal strength on mobile:



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

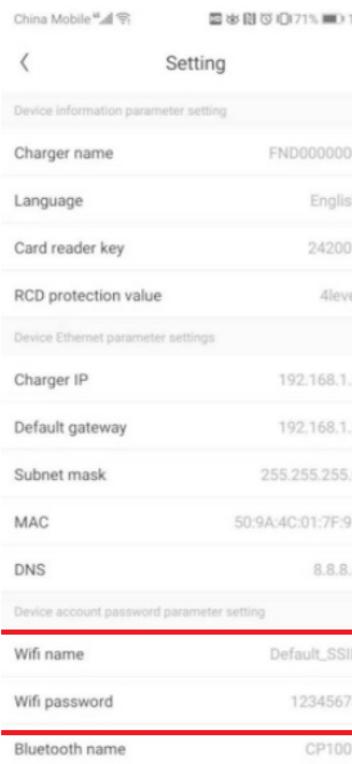
WiFi connection and application issue



| Configure Charger Parameters | |
|--|-------------------------------|
| Firmware Version Num: | AC22/44K_1P_H3_V52_L01 |
| Charge ID(MaxLen 18): | CP2007 |
| Authentication Key(MaxLen 20): | 12345678 |
| Charger IP: | 192.168.11.196 |
| Default Gateway: | 192.168.11.254 |
| Subnet Mask: | 255.255.255.0 |
| Net MAC Address: | 0a:08:de:9f:ab:c0 |
| Server URL(MaxLen 100): | ws://47.254.157.66:80/ocpp/ws |
| Charging Rate (Per KWh): | 1.00 |
| Card Pin(6 digits, E.g:123456): | 242007 |
| Charger DNS: | 8.8.8.8 |
| BlueTooth Pin(MaxLen 16): | 1234 |
| MeterValue Interval(5~300 Sec): | 15 |
| Max Temperature(Max 85): | 80 |
| Type B RCD(Enter 0 calibration): | -0.07 |
| Language Set(1,2,3) (1:English,2:Chinese,3:Other): | 1 |
| Max Output Current Set(7~63A): | 32.00 |
| Charge Mode(Default 1:APP/RFID,2:RFID,3:Plug&Charge): | 3 |
| WIFI SSID(MaxLen 32,Not support ','): test | |
| WIFI Key(MaxLen 16,Not support ','): NONE | |
| Charger Time(2018-01-12 16:02:35): | 2019-07-09 03:54:58 |
| Operators APN: | default |
| Sensor Monitor Max Power(3~45KW): | 45 |
| BlueTooth Name(MaxLen 16): | Growatt_0001 |
| WebSocketPingInterval(15~150 Sec): | 120 |
| Heartbeat Interva(15~3600 Sec): | 300 |
| Type B RCD Protection: | 4 |

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.

TROUBLESHOOTING



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.

| | |
|------------------------------|--------------------------------------|
| 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:bce5 |
| iPhone | 88:e8:7f:9e:2fac |
| 23C01K568F1LDUZ | 20:47:47:3d:85:f4 |
| HUAWEI_nova_2s-Bedza2a8f95 | 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 |

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.

Check if server address is correct in the "Server URL" field. The correct setting is:
ws://47.254.157.66:80 / ocpp / ws

| | |
|--|--------------------------------------|
| Configure Charger Parameters | |
| Firmware Version Num: | AC22044K_IP_H3_V52_01 |
| Charge ID/MaxLen 18: | CP2007 |
| Authentication Key/MaxLen 20: | 12345678 |
| Charger IP: | 192.168.11.196 |
| Default Gateway: | 192.168.11.254 |
| Subnet Mask: | 255.255.255.0 |
| Net MAC Address: | Da:08:de:9f:ab:c0 |
| Server URL/MaxLen 100: | ws://charge.grovaat.com:8080/ocpp/ws |
| Charging Rate (Per KWh): | 1.00 |
| Card Pin(6 digits, E.g.:123456): | 242007 |
| Charger DNS: | 8.8.8.8 |
| BlueTooth Pin/MaxLen 16: | 1234 |
| MeterValue Interval(5~300 Sec): | 15 |
| Max Temperature/Max 85: | 80 |
| Type B RCD(Enter 0 calibration): | -0.07 |
| Language Set(1,2,3) (1:English,2:Chinese,3:Other): | 1 |
| Max Output Current Set(7~63A): | 32.00 |
| Charge Mode/Default 1:AP9/RFID,2:RFID,3:Plug&Charge): | 3 |
| WIFI SSID/MaxLen 32,Not support ':'; test | |
| WIFI Key/MaxLen 16,Not support ':'; NONE | |
| Charger Time(2018-01-12 16:02:35): | 2019-07-09 03:54:59 |
| Operators APN: | default |
| Sensor Monitor Max Power(3~45KW): | 45 |
| BlueTooth Name/MaxLen 16: | Grovaat_0001 |
| WebSocketPingInterval(15~150 Sec): | 120 |
| Heartbeat Interval(15~3600 Sec): | 300 |
| Type B RCD Protection: | 4 |

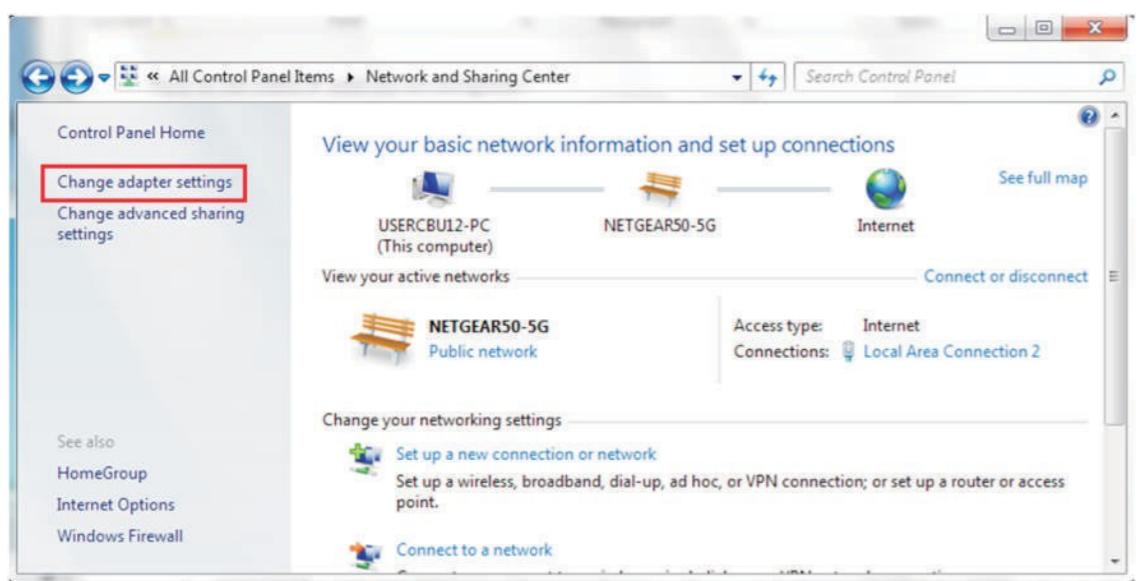
Cannot access parameter setting page

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

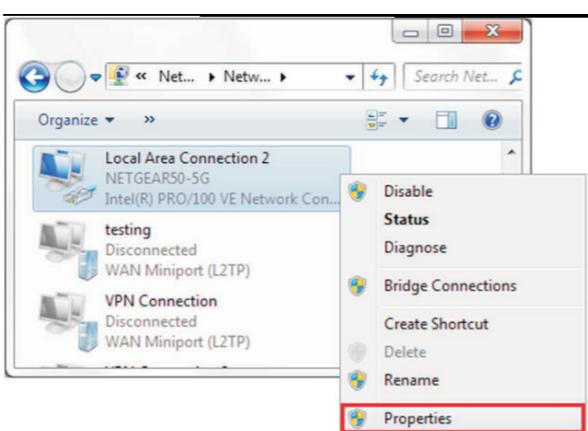
To set a static IP on your Windows computer:

(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.

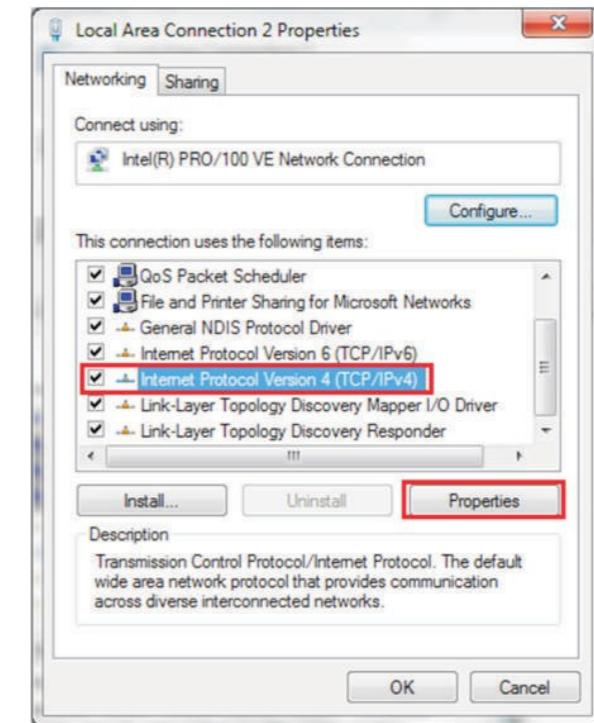


(3). Right-click on Local Area Connection and click on Properties.

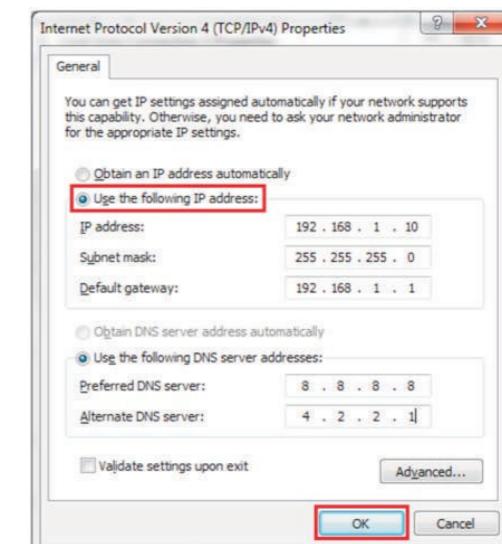


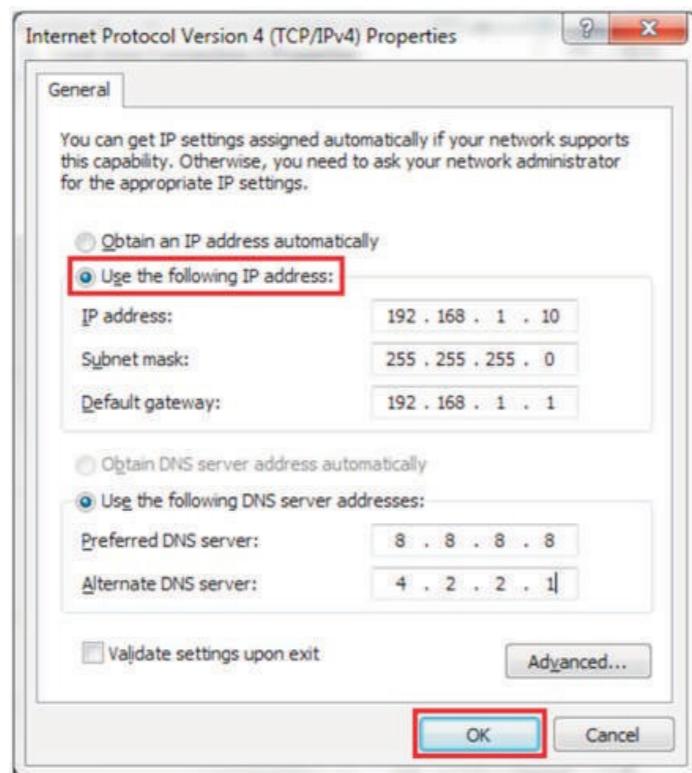
TROUBLESHOOTING

(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.





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.

| Configure Charger Parameters | |
|--|---------------------------------|
| Firmware Version Num: | ACM/TK_IP_30_V21_L01 |
| Charge ID(MaxLen 20): | AT05500001 |
| Charger IP: | 192.168.1.5 |
| Default Gateway: | 192.168.1.1 |
| Subnet Mask: | 255.255.255.0 |
| Net MAC Address: | 31:4D:EB:62:59:18 |
| Server URL: | wi://charge.growatt.com:80/ocpp |
| Charging Rate (Per kWh): | 0.00 |
| Card Pin(E.g:123456): | 242007 |
| DayTime(E.g:05:00-18:00): | 06:30-18:30 |
| Language Set(1,2,3): (1:English, 2:Other, 3:Chinese): | 1 |
| Charger DNS: | 8.8.8.8 |
| Max Current Set(7~32A): | 32 |
| Charge Mode(Default 1:APP/RFID, 2:RFID, 3:Plug&Charge): | 1 |
| WIFI SSID(MaxLen 32,Not support ','): HUAWEI P20 Pro | |
| WIFI Key(MaxLen 16,Not support ','): 12345678 | |
| Day-Price(E.g:0.12): | 1.50 |
| Night-Price(E.g:0.12): | 1.60 |

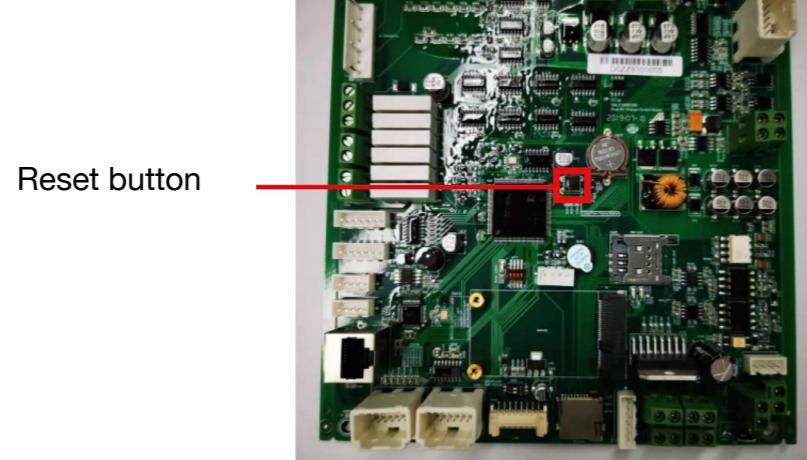
c. Check if off-peak charging is set and if charger's time is correct.
 If off-peak charging is set, charge can only start within the charging allowed time period.

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://192.168.1.5:808



| | |
|---|---------------------|
| Card Pin(E.g:123456): | 242007 |
| DayTime(E.g:05:00-18:00): | 06:30-18:30 |
| NightTime(E.g:18:00-05:00): | 18:30-06:30 |
| LCD Time(2018-01-02 03:04:05): | 2019-03-15 07:50:59 |
| Max Limit Power(W): | 10000 |
| MeterValue Interval(5~300): | 15 |
| Max Temperature(Max 85): | 75 |
| Allow ChargingTime(00:00-23:59): | 00:00-23:59 |
| RCD Protection(mA): | 20 |
| BlueTooth Name(MaxLen 16): | Growatt_1001 |
| 4G Account(MaxLen 30): | |
| 4G Passwd(MaxLen 30): | |
| <input type="button" value="Set and Reboot"/> | |



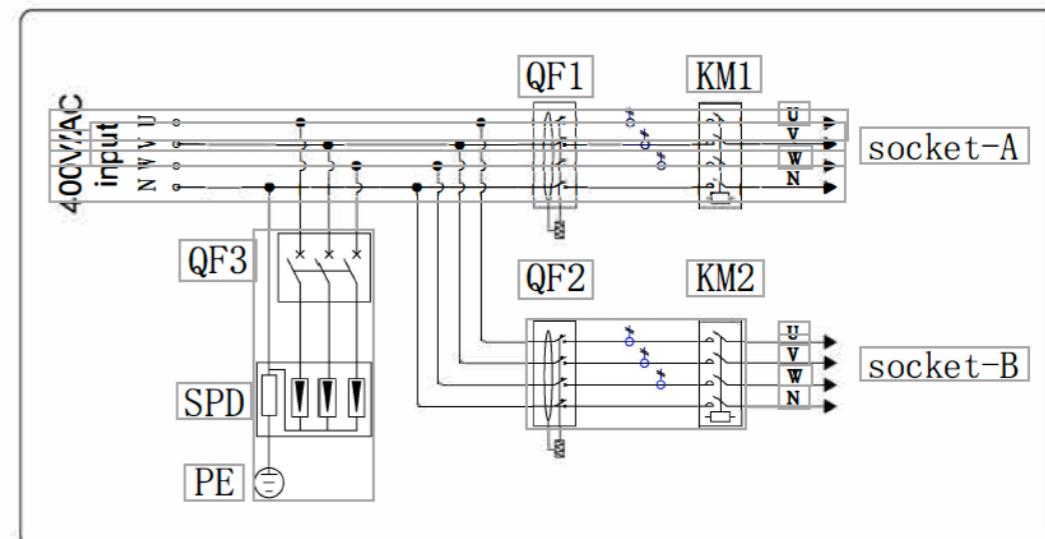
SPECIFICATIONS

| | |
|---------------------------------|---|
| Model | WB-11/22D |
| Dimension(mm) | 420/1635/270(W*H*D) |
| Display | LCD |
| Casing Material | Stainless steel& Engineering plastics& Tempered glass |
| Input | |
| Voltage | AC 400V |
| Frequency | 50Hz |
| Output | |
| Voltage | AC 400V |
| Max current | 16A*2/32A*2 |
| IP Protection degree | IP65 |
| Working environment temperature | -20°C~+50°C |
| Relative humidity | 5%~95% |
| Altitude | <2000m |
| Communication | Ethernet/WIFI/4G |
| Payment | RFID/APP |
| Standby power | <8W |
| Standard | IEC-62196-2;EN61851 |
| Mounting | Ground |
| Certificate | CE |
| Protection features | |
| Oversupply | 457V |
| Undervoltage | 304V |
| Overcurrent | 20A/40A |
| Shortcircuit | Yes |
| Leakage protection | Yes |
| Over temperature | Yes |
| Lightning protection | Type II |



ANNEX

Electrical diagram





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