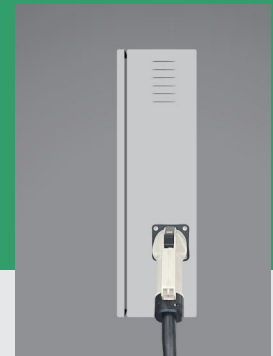


TA-DC-WD

Manual Operation



Model	TA-DC-07WD	TA-DC-15WD	TA-DC-20WD	TA-DC-30WD	TA-DC-40WD
Output Power	7KW	15KW	20KW	30KW	40KW
Output Current	20A	37A	60A	100A	133A
Output Voltage	200-750V (200-1000V optional)				
Input Connection	L+N+PE		3P+N+PE		
Input Current	32A	25A	32A	45A	64A
Input voltage	90-265V		260-475V		
Frequency	50/60Hz				
Power Factor	> 0.99@rated voltage				
Efficiency	95%				
Display	5 inch Color display				
Dimension(cm)		42*22*65		50*23*70	60*27*83
Weight	20KG	30KG	44KG	56KG	70KG
Operating Temperature	-20C to +50°C				
Altitude	2000M				
IP LEVEL	IP54				
Working Relative Humidity	RH≤95%				
Input cable length	0M(Customization Acceptable)				
Gun cable Length	5M(Customization Acceptable)				
Interface Standard	CCS CHADEMO GB/T				
Charging protocol	GBT27930/CHADEMO 2.0/ DIN 701210CPP 1.6 (JSON)ISO 15118				

CONTENTS

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1.1 Pre operation inspection

1.2 Power on the device

1.1 Pre operation inspection

Before running, please carefully check and ensure the following:

- The installation position of the charging station is convenient for operation and maintenance;
- Connect the charging station and accessories correctly and install them firmly;
- Reasonable selection and installation of AC incoming leakage protection circuit breakers;
- The relevant accessories of the charging station are complete, and the charging gun is in a suspended state.

1.2 Power on the device

After all the pre operation inspection items meet the requirements, close the power supply incoming leakage protection circuit breaker. After powering on, observe the status of the LED indicator light

- Normal standby: The blue light is always on
- Charging status: Green light always on
- Equipment malfunction: Red light always on

02

Interface Introduction

2.1 Main interface

- 2.1.1 Record query
- 2.1.2 Card checking
- 2.1.3 Rate inquiry
- 2.1.4 Equipment query

2.2 System settings interface

- 2.2.1 Administrator entrance
- 2.2.2 Introduction to System Settings
- 2.2.3 Card management

- Card making software
- Card reader

2.1 Main interface

On the left side of the main screen interface of the single gun DC charging station is a charging gun and gun lock button, and on the right side are four functional menu buttons: Record query, Card checking, rate Inquiry, and Equipment query.



2.1.1 Record query

Click on [**Record Query**] to enter the Record information interface and view the charging records, including NO Card balance, Status, Transaction NO., Electricity, Stop reason, Card number, Charging mode, Interface NO., Cost, Vehicle VIN, and other information. Click the Last ten, Last ten, Next, and Back buttons to flip the page and view the records.

2.1.2 Card checking

Click on [**Card Checking**] to enter the Electricity card information interface, enter the card swiping interface, place the charging card at the swiping point, read and display the card number, card balance, and settlement status of the charging card.

2.1.3 Rate inquiry

Click on [**Rate inquiry**] to enter the Rate details interface, where you can view the unit price and service fee during the charging period (which can be set in the Rate setting function menu in the system settings).

Rate details

Time	Unit Price	Service Fee
: — :		
: — :		
: — :		
: — :		

OK

2.1.4 Equipment query

Click on [**Equipment Query**] to enter the Equipment information interface, check the operating status of the charging station, and facilitate the quick and easy search for operational faults of the charging station.

Equipment information

Surge Arrester Status :

input less-volt alarm :

AC input over-voltage :

input phase-loss alarm :

AC input under-voltage :

output short-circuit alarm :

Charge over-tem warning :

output over-current alarm :

Charger fan failure :

output over-volt alarm :

AC circuit breaker failure :

output under-volt alarm :

Charger door alarm :

A and meter connect status :

Stop button malfunction :

Connect status with CCU1 :

input over-volt alarm :

Gun A not in place :

Home
Next
Back

Equipment information

A over-temp alarm :

EV alarms during A charge :

A lock :

A mother cable output contactor fault :

A battery rever fault :

A connect BMS :

A charge guide volt : V

A insulation monitor fault :

A over-volt alarm :

A less-volt alarm :

A over-current alarm :

Home
Back

2.2 System settings interface

2.2.1 Administrator entrance

Click continuously three times in the upper right corner of the main screen interface to enter the administrator entrance, enter the administrator password to enter the system settings interface, and click [**Revise password**] to change the administrator password.

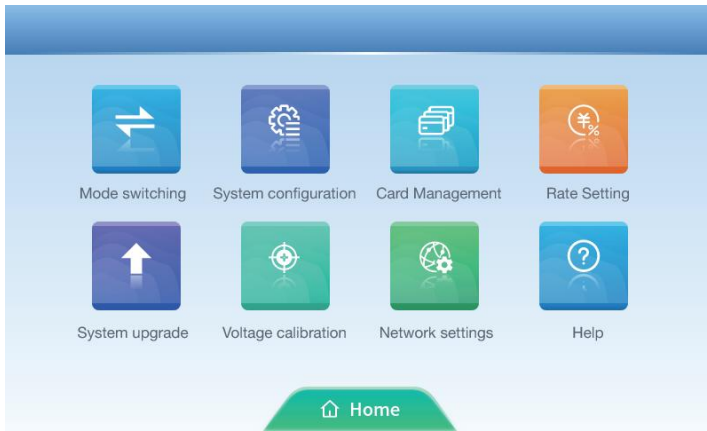
Please enter your charge card code

OK

Home
revise password
Back

2.2.2 Introduction to System Settings

At the administrator entrance, enter the password and enter the system settings interface to view and configure all functions of the charging station. The function menu includes Mode switching, System configuration, Card management, Rate setting, System upgrade, Voltage calibration, Network settings, and Help.



2.2.2.1 Mode switching

Click on the Mode Switch function menu to enter the Mode Switch interface, where you can view and modify relevant parameters:

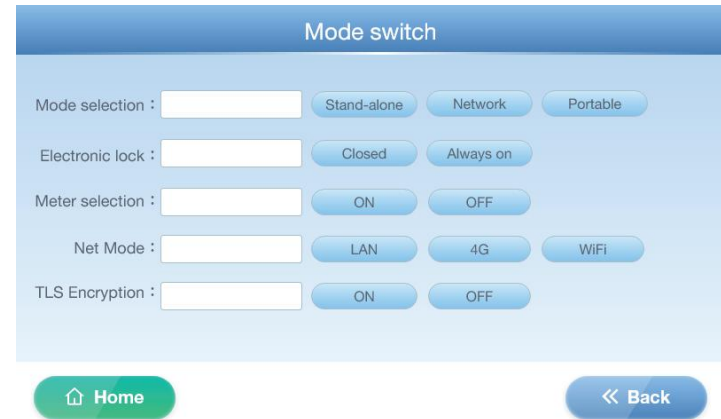
Mode selection: Select different charging modes according to the application scenario. Currently, there are three charging modes: Stand alone, Network (optional function), and Portable

Electronic lock: defaults to Always on (the charging gun head electronic lock only works when the gun head is equipped with an electronic lock function)

Meter selection: select ON or OFF (select not to connect to the meter, charging level will not be displayed and fees will not be charged)

Net mode: LAN, 4G, WiFi (after selecting Network, choose the connection method according to your needs)

TLS encryption: ON, OFF (After selecting Network, choose based on the encrypted or non encrypted network platform)



2.2.2.2 System configuration

Click on the [**System configuration**] function menu to enter the System configuration interface:

1) On the first page of System configuration, view and modify relevant parameters:

Pile Number: Fill in the number of the charging station

Overvoltage threshold: filled in based on the voltage of the charging station module, with a default value of 1010V

Maximum output current: Fill in based on the charging station module current or the rated current of the gun wire

Maximum output power: Fill in the maximum output power value as needed, with the default value being the rated power of the charging station

SOC threshold: default to 100%, with the SOC of electric vehicles, taking the minimum value of both as the upper limit of SOC.

Load Balancing: detects the total incoming line load and automatically adjusts the charging current (optional function)

System configuration

Pile Number :

Overvoltage threshold : V

Maximum output current : A

Overcurrent threshold : A

Maximum output power : kW

SOC threshold : %

Load Balancing : A

[Home](#) [Next](#) [Back](#)

2) Click the Next button to navigate to the second page of System configuration, where you can view and modify relevant parameters:

AC input voltage: set to 450V by default based on the voltage of the power input system

System configuration

AC input overvoltage : V

AC input undervoltage : V

Gun A meter number :

Recording information : [Clear Records](#)

[Home](#) [Next](#) [Back](#)

AC input undervoltage: According to the system voltage setting of the power supply, the default setting is 330V

Gun A meter number: Broadcast address, no need to set

Recording information: Clear Records

3) Click the Next button to go to the third page of System configuration, view and select the power of the charging station module (select the corresponding power module based on the actual power of the charging station, which has been set at the factory and should not be changed).

System configuration

Current modules :

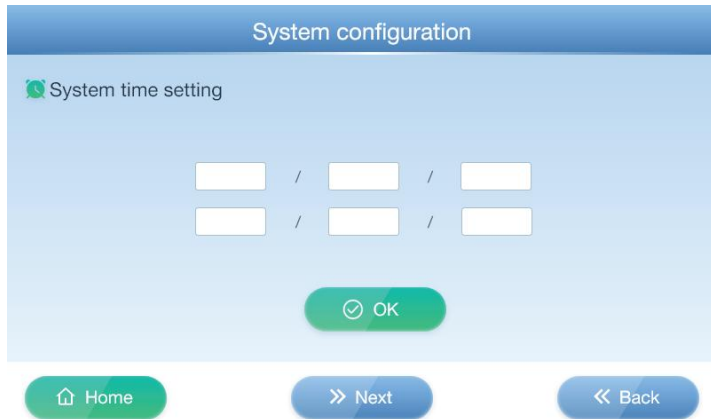
15kw YL mould 20kw YL non-constant 15kw SH

20kw YL mould 20Kw SH non-constant 30kw Tonghe

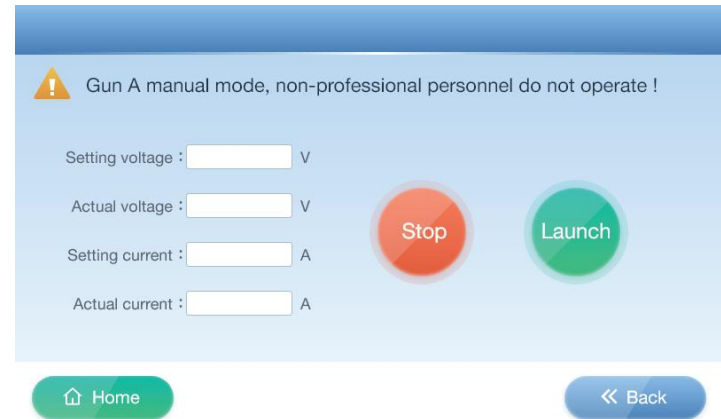
30kw YL mould 40kw YL mould

[Home](#) [Next](#) [Back](#)

4) Click the Next button to navigate to the fourth page of the System configuration and modify the system time. The top line displays the year, month, and day, while the bottom line displays the hours, minutes, and seconds. Click on the input box to enter the correct time, and finally click the OK button to save the time settings.

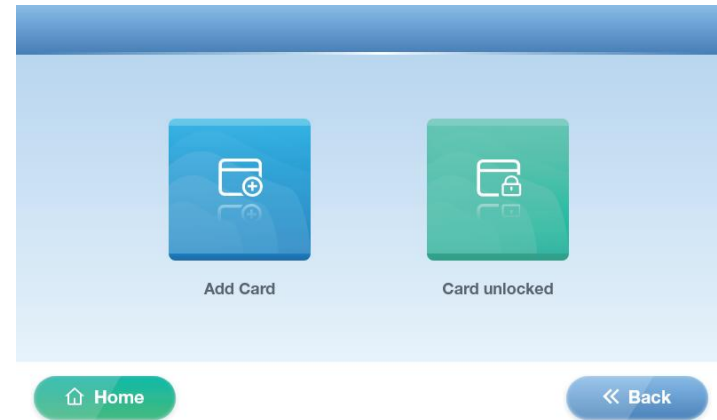


5) Click the Next button to go to the fifth page of the System configuration and enter manual mode. Calibrate the charging current and voltage, which have already been calibrated at the factory. Please do not calibrate them randomly.



2.2.3 Card management

Click on the [**Card Management**] function menu to enter the Card Management interface. The main functions include Add card and Card unlocked.



1) Add card

Click the Add card function button to enter the Add card interface, where you can view and modify relevant parameters.

NO1.: Place the charging card at the card swiping location, click the +Add button on the right, and the card number will be displayed on the left. Click the OK button, and the card binding will be successful (three charging cards can be bound). The card binding here only takes effect in Stand alone charging mode. If the card has been bound, only the bound charging card can be swiped for charging,

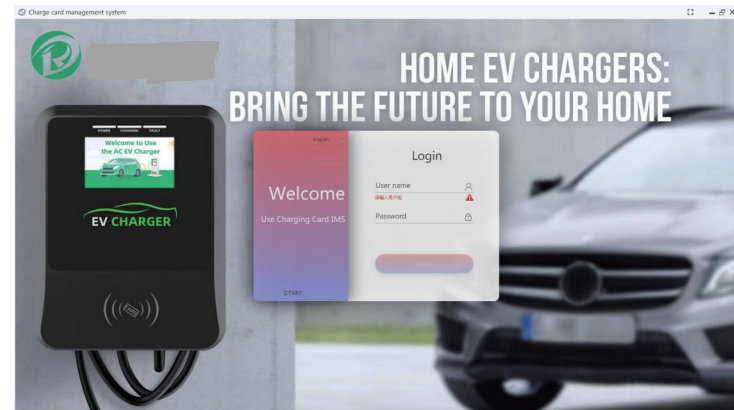
Key: The default value is 17 (all 6 input boxes are 17), which is the same as the Key provided for the charging card. If you need to modify the Key (the charging card needs to be modified to the same Key, use professional card making tools to change the Key), click the OK button after modification, and restart the charging station. When there is no bound card, charging cards with the same Key can be swiped and charged normally in Stand alone mode.

Card making software

Our company has professional card making software and card readers, which can be used to view and set charging cards through card making tools. The function menu of the card making software includes Card key, Make card, Card issuing, Top up, User management, Card issuing record, Recharge record, etc.

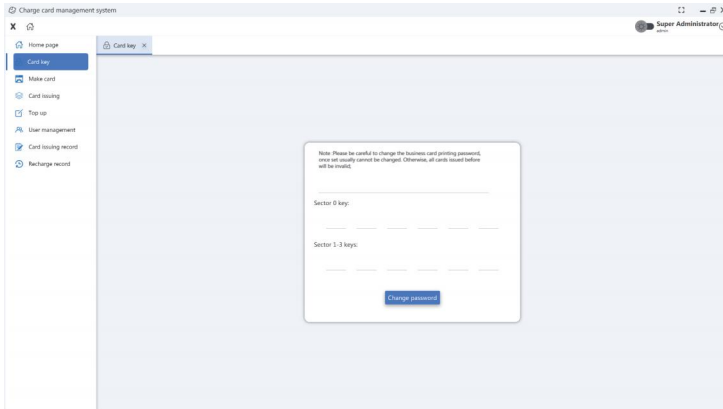
A Login interface

Enter the correct username and password to log in to the card making software.



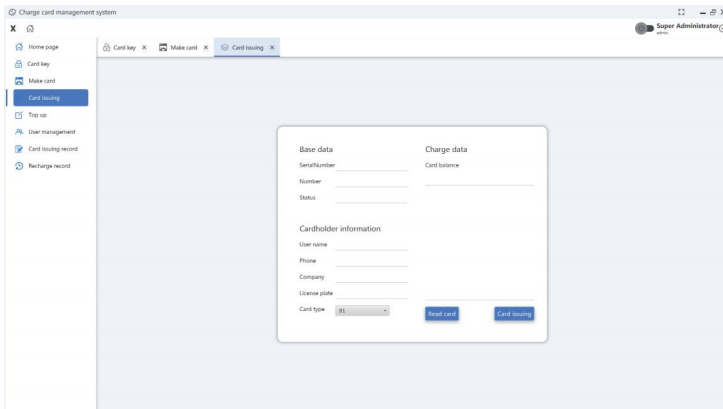
B Card key

The Key of the charging card and the charging station must be the same. If it needs to be changed, the card making tool needs to change the Key of the charging card.



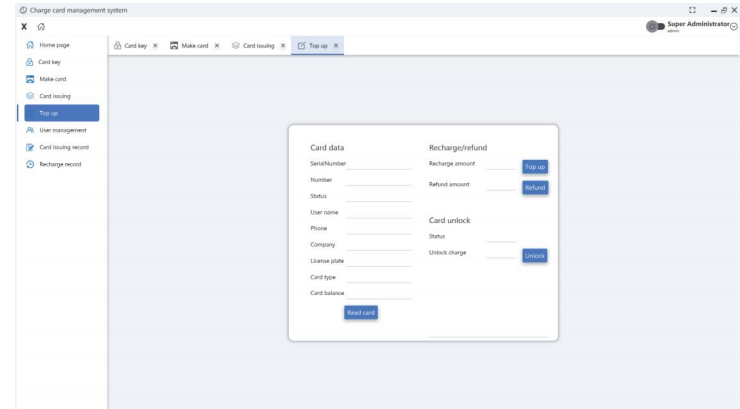
C Card issuing

Place the charging card on the card reader, click the Read card button, and read the base data of the new card. Fill in the Cardholder information according to the actual situation, and generally choose C1 for the Card type (the paid card is of type C, the free card is of type B, and the rate is adjusted for type S).



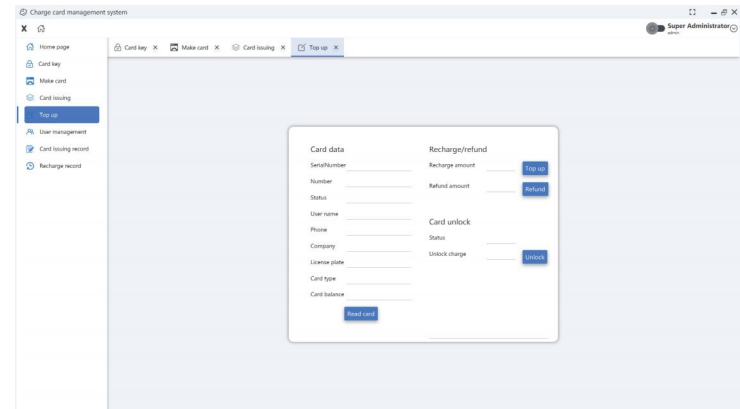
D Top up

New cards can be issued on this interface for Top Up, Refund, Card Unlock, etc.



E Card issuing record

Search for card issuance records on this page.



F Recharge record

View recharge records on this page.

Serial number	Number	Card type	Time	Start time	End time	Money	User name	License plate	Card issuing time
36	43887722	0040300007087	Expired			0	*****		2024-01-13 10:08:00
35	40243994	0000000000111	Expired			0	*****		2024-01-11 10:07:04
34	42913284	0040300007087	Expired			0	*****		2024-01-11 10:07:48
33	4218210827	0000000000001	Expired			1			2024-01-06 10:10:23
32	35432367	0000000000263	Expired			0	1		2023-12-25 11:33:03
31	386814204	0000000000017	Expired			0			2023-12-25 11:32:59
30	48443895	0000000000217	Expired			0			2023-12-22 17:37:28
29	48707303	0000000000214	Expired			0			2023-12-22 17:37:19
28	41332667	0000000000000	Top up			300			2023-12-22 00:34:43
27	38534158	0000000000019	Expired			0	1		2023-12-21 17:51:11
26	29133948	0000000000018	Expired			0	1		2023-12-21 17:50:51
25	386814244	0000000000017	Expired			0			2023-12-20 17:38:50
24	48575251	0000000000006	Expired			0	1		2023-12-20 14:37:17
23	4218210827	0000000000001	Expired			0	1		2023-12-20 14:37:00
22	376718474	0000000000017	Expired			0			2023-12-20 09:03:11

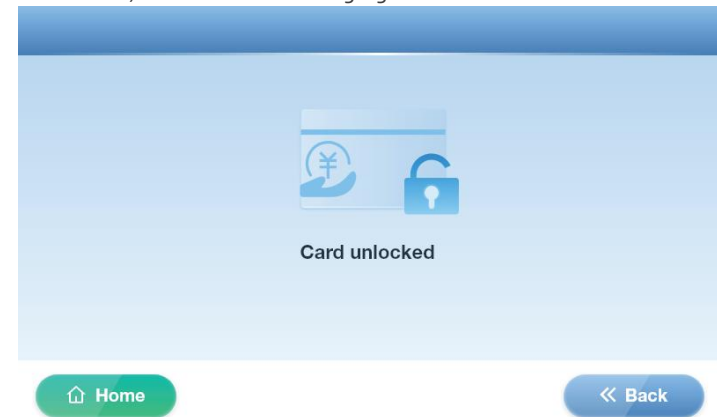
Card reader

After installing the card making software on the computer, the card reader is connected to the computer through a USB cable.



2) Card unlocked

You can place the charging card locked at this charging station at the card swiping point, click on the Card unlocked button in the Card management interface, and unlock the charging card.



2.2.2.4 Rate setting

Click on the [Rate Setting] function menu to enter the Rate Details interface,

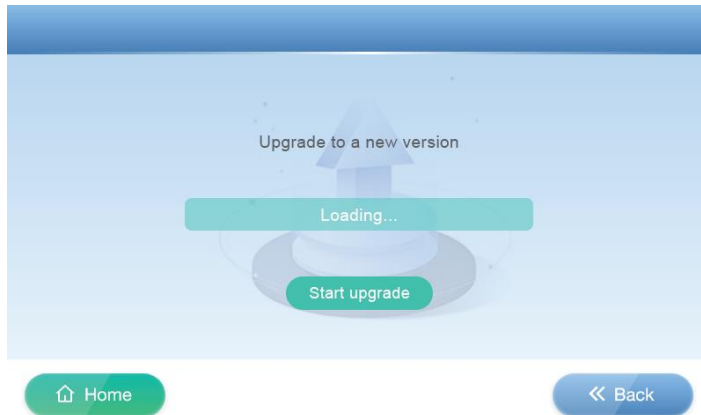
Time	Unit Price	Service Fee
:	—	:
:	—	:
:	—	:
:	—	:

1) Modify Time, Unit Price, and Service Fee, click the OK button to save (if both Unit Price and Service Fee are 0, charging will not be charged).

2) Click on the Monetary unit input box to enter the Monetary unit interface and select the desired currency unit.

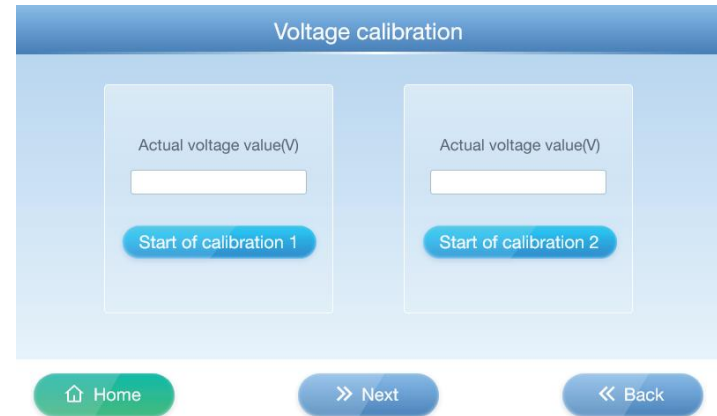


2.2.2.5 System upgrade



2.2.2.6 Voltage calibration

Click on the [**Voltage calibration**] function menu to enter the Voltage calibration interface. The first page is for calibrating the actual voltage value, the second page is for calibrating the actual current value, and the third page is for calibrating the voltage value with or without the gun inserted. It has been calibrated at the factory, so please do not calibrate it randomly.



2.2.2.7 Network settings

In Network mode, click on the [**Network settings**] function menu to enter the Network configuration interface, where you can view and modify parameters such as Current agreements, Port number, IP, URL, APN, etc.

Network configuration

Current agreements:

Port number:

IP: . . .

URL:

APN:

Name:

Password:

2.2.2.8 Help

Click on the **【 Help 】** function menu to enter the Help interface. The main functions include Matters Needing Attention, Operation Instructions, Common Problems and Solutions. Click the corresponding function button to display the relevant main content.



03

Charging operation

3.1 Network

3.2 Stand alone

3.3 Portable

Click continuously three times in the upper right corner of the main screen interface to enter the administrator entrance. Enter the administrator password and enter the system settings interface. Click [Mode Switching] to enter the Mode Switch interface. There are three charging modes: Stand alone, Network (optional function), and Portable. The specific operation of the charging mode is as follows:

Note: The charging card used in the Network charging mode must have this card number added to the network platform to become an authentication card.

The charging card used in the Stand alone charging mode must be bound in the Add card or have the same Key, and charging priority should be given to binding the card. When there is no binding card, charging cards with the same Key can be swiped for charging.

3.1 Network

3.1.1 LAN mode

Firstly, in the Mode switch interface, configure according to the following parameters, then fill in the network platform address in the URL of the Network configuration interface, restart the charging station (changing the charging mode requires restarting the device), and check on the network platform that the charging station is online successfully before starting charging.

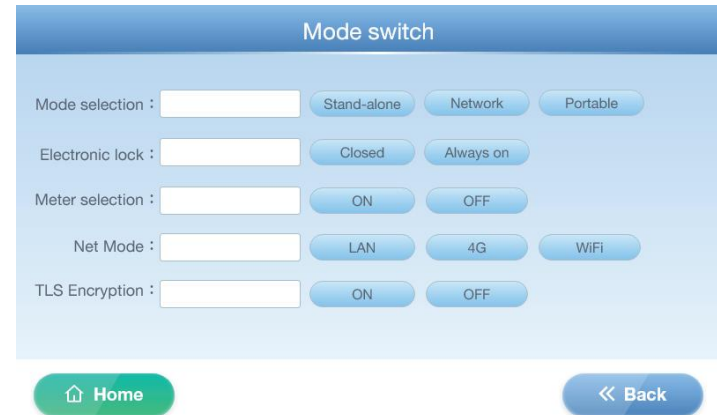
Mode selection: Network

Electronic lock: defaults to Always on (the charging gun head electronic lock only works when the gun head is equipped with an electronic lock function)

Meter selection: Select ON (to connect to the meter selection)

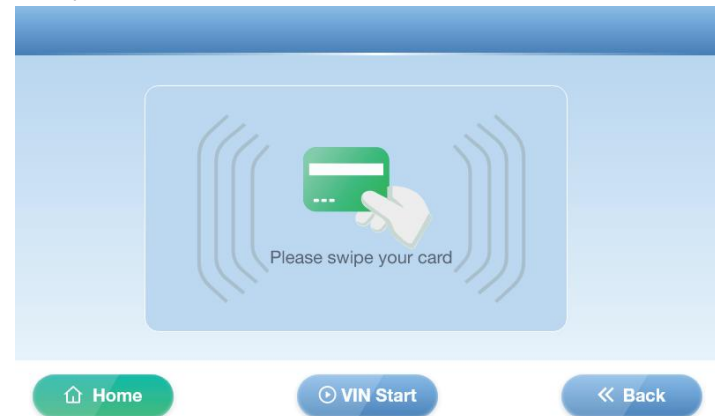
Net mode: LAN (after selecting Network, connect with a network cable)

TLS encryption: ON, OFF (selected based on encrypted or non encrypted network platform)

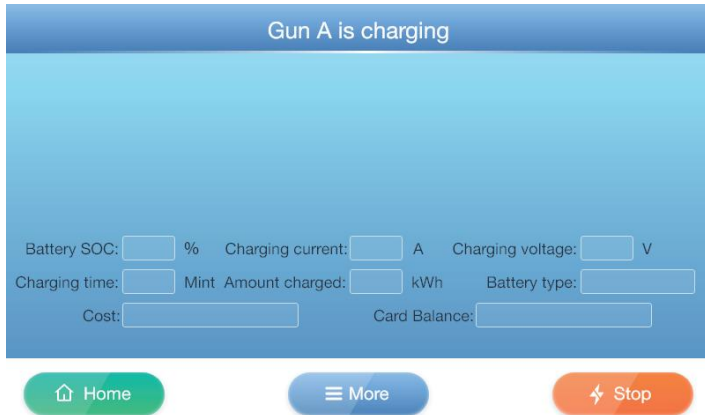


3.1.1.1 Start charging

1) The charging gun head and the charging interface of the electric vehicle must be reliably connected and properly docked. When the gun is inserted, click on the main interface Gun A to display the card swiping interface. Please swipe your card, or you can start charging through the network platform control.



2) After swiping the card, the charging station automatically detects for a few seconds and starts charging. The charging interface displays information such as Battery SOC, Charging time, Card Balance, Charging current, Amount charged, Battery type, Charging voltage, etc.



3) The network starts charging, and the charging station automatically detects for a few seconds before starting charging. The charging interface



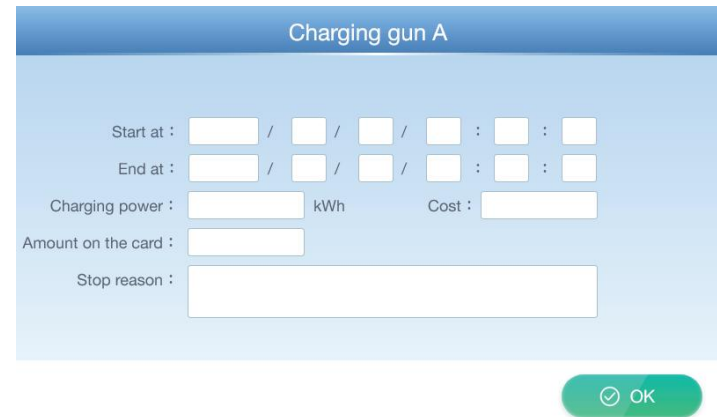
displays information such as Battery SOC, Charging current, Charge volt, Charging time, Power charged, Value spent, etc.

3.1.1.2 Stop charging

There are several ways to stop charging in Network charging mode:

- To start charging by swiping the card, click the Stop button on the charging interface and swipe the card again to stop charging;
- Stop charging through online platforms;
- Stop when full;
- Press the emergency stop button to stop (do not touch non emergency faults).

After the charging is completed, a settlement interface will appear, displaying information such as charging time, charging power, and Amount on the card. Click the OK button to return to the main interface.



3.1.2 4G mode

This mode is configured the same as LAN mode. Please select 4G (using an IoT card to connect to the network) in the Net mode of the Mode switch interface, then fill in the network platform address and APN related parameters in the URL of the Network configuration interface (edit and fill in according to the information provided by the operator), restart the charging station (changing the charging mode requires restarting the device), and then start charging (the same as starting or stopping charging in LAN mode).

3.1.3 WiFi mode

This mode is configured the same as LAN mode. Please select WiFi (optional function) in the Net mode of the Mode switch interface, and fill in the network platform address in the URL of the Network configuration interface. Locally fill in WiFi Name and WiFi Password (the WiFi signal near the charging station must be stable and good), restart the charging station (changing the charging mode requires restarting the device), and then start charging (the same as starting or stopping charging in LAN mode).

3.2 Stand alone

3.2.1 Mode configuration

Firstly, in the Mode switch interface, configure the parameters below, restart the charging station (changing the charging mode requires restarting the device), and start charging.

Mode selection: Stand alone

Electronic lock: defaults to Always on (the charging gun head electronic lock only works when the gun head is equipped with an electronic lock function)

Meter selection: select ON or OFF (select not to connect to the meter, charging level will not be displayed and fees will not be charged)

Net mode: is empty

TLS encryption: ON, OFF (no need to choose, the system does not recognize this parameter by default)

The screenshot shows the 'Mode switch' interface with the following configuration options:

- Mode selection: Stand-alone (selected), Network, Portable
- Electronic lock: Closed, Always on
- Meter selection: ON, OFF
- Net Mode: LAN, 4G, WiFi
- TLS Encryption: ON, OFF

At the bottom, there are 'Home' and '<< Back' buttons.

3.2.1.1 Start charging

The charging gun head and the charging interface of the electric vehicle must be reliably connected and properly docked. When the gun is inserted, click on the main interface Gun A to display the card swiping interface (all mode card swiping interfaces are the same). Please swipe a charging card with the same binding or key to start charging (the same as the card swiping charging interface in Network mode).

3.2.1.2 Stop charging

There are several ways to stop charging in Stand alone charging mode:

- Click the Stop button on the charging interface, swipe the card again to stop charging;
- Stop when full (please swipe your card to settle);
- Press the emergency stop button to stop (do not touch unless in an emergency).

3.3 Portable

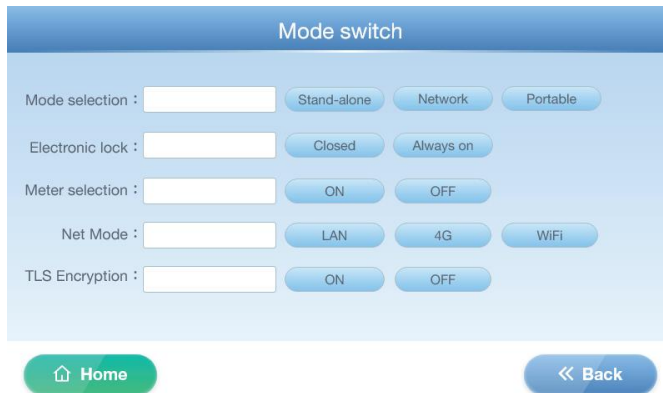
Firstly, in the Mode switch interface, configure the parameters below, restart the charging station (changing the charging mode requires restarting the device), and start charging.

Mode selection: Portable (no card swiping, no fee deduction)

Electronic lock: defaults to Always on (the charging gun head electronic lock only works when the gun head is equipped with an electronic lock function)

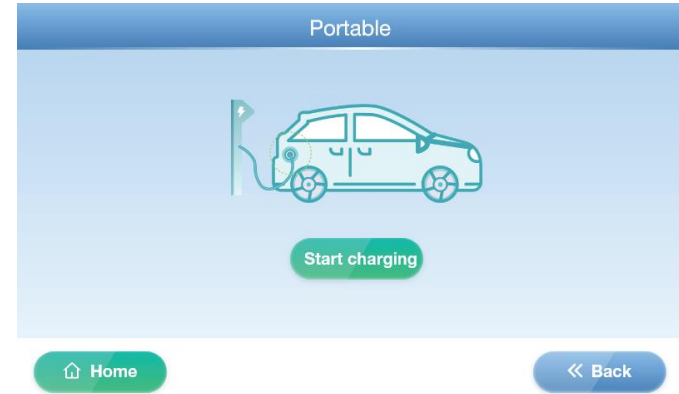
Net mode: is empty

TLS encryption: ON, OFF (no need to choose, the system does not recognize this parameter by default)



3.3.1 Start charging

The charging gun head and the charging interface of the electric vehicle must be reliably connected and properly docked. When the gun is inserted, the screen will prompt the charging interface. Click the Start charging button, and the charging station will automatically detect for a few seconds to start charging (the same as the card swiping charging interface in Network mode).



3.3.2 Stop charging

There are several ways to stop charging in Portable charging mode:

- Click the Stop button on the charging interface to stop charging;
- Stop when full;
- Press the emergency stop button to stop (do not touch unless in an emergency).

04

Common problems and solutions of charging stations

·The main reasons for slow charging speed may be insufficient power of charging stations, limited charging current of trams, and insufficient power supply in parking spaces. Please select a higher power charging station, check the vehicle settings, adjust charging parameters, choose other parking spaces, or report power supply issues to relevant departments.

·When using a charging station, sometimes you may encounter charging failure and be unable to charge normally. It may be a problem with the charging connector, charging station, or charging card. Please check if the connector is intact and ensure that the plug is securely inserted. Contact the charging station management unit for maintenance or replacement. Report the malfunction and carry out repairs or replacements. The charging card may have poor contact, damage, and other issues, leading to charging failure. If there are any problems, please replace the charging card in a timely manner or contact the charging card issuing agency to solve the problem.

·When swiping the card for charging, do not use the same charging card to swipe other charging stations to avoid being locked.

·During the charging process, do not forcefully pull out the charging connector. Forcefully pulling out the charging connector may cause a fire at the connector and cause safety accidents.

·Entering the system configuration interface while charging will cause the charging to stop.

·If the charging has ended or the charging has ended abnormally, resulting in outstanding settlement, please swipe your card for settlement.

·Swipe the card to start charging, and at the end of charging, please swipe the same card.

·When installing the charging station, the grounding line should be reliable, without defects or ungrounded, otherwise charging cannot be carried out.

·If you need to stop charging in advance, please follow the normal operation of swiping your card to stop. ·If a safety accident occurs during the charging process, such as abnormal noise, short circuit of wires, etc., please press the emergency stop button on the board below, disconnect all power sources, and immediately contact the on-site management personnel.

·The display screen does not light up. Restart the charging station or contact professional technicians for repair.

·The charging cable, power supply, and interface are damaged. Please contact professional technicians for repair and replacement, and conduct regular inspections.

·Check and clean the damaged gun head and foreign objects in the gun needle hole. After one or two months, power off and restart the equipment.

·No response from card swiping, restart the device, replace the card, and call customer service for consultation.

·When the equipment is not used for a long time, please turn off the power by pulling the switch.

·Emergency stop button, avoid touching in non emergency situations.