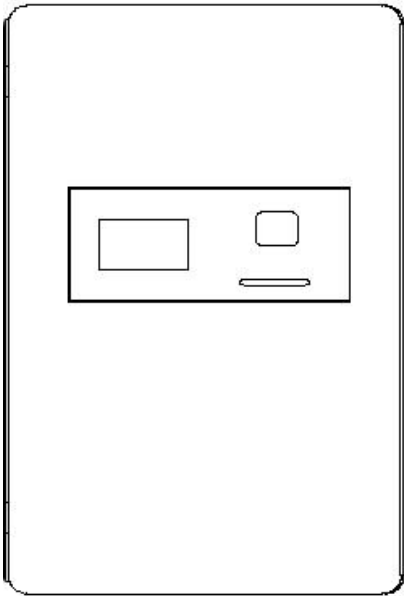
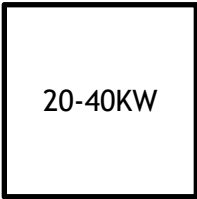


DC Series

20-30-40KW DC Fast Charger

User Manual & Installation Instructions



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Introductions

The EVSE DC Fast Charger is the top choice to power battery electric vehicles (BEV) and plug-in electric vehicles (PHEV). It is designed for quick charging in both public and private locations, such as retail and commercial parking spaces, fleet charging stations, highway service areas, workplace, residence, etc.

The EVSE DC Fast Charger has the advantage of easy installation. The mounted design and pluggable power modules realize flexible and cost-effective installation for different types of locations. The DC charger also has network communication capability. It is able to connect with remote network systems and provide drivers of electric cars real-time information, such as the location of charging stations, charging progress and billing information. The Mount DC Fast Charger has a clear user interface with function buttons, safety certifications and an excellent waterproof and dust proof design to provide the best choice for outdoor environments.

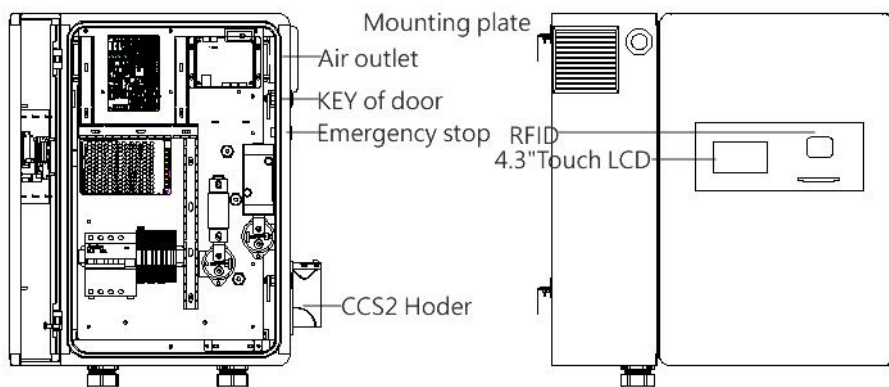
Features

- Pluggable power modules make installation easy and flexible.
- Offers customers the convenience of start/stop charging control from an authorized RFID smart card or mobile APP.
- Built on latest industry standards for DC charging.
- Carries an outdoor rating capable of withstanding solid and liquid intrusions in outdoor settings making the unit more stable and highly reliable.
- Provides a high-contrast, screen interface with multi-function buttons.

Applications

- Public and private parking areas
- Community parking areas
- Parking areas of hotels, supermarkets and shopping malls
- Workplace parking areas
- Charging stations
- Highway rest areas

1、 Basic User Interface



2、 Specification

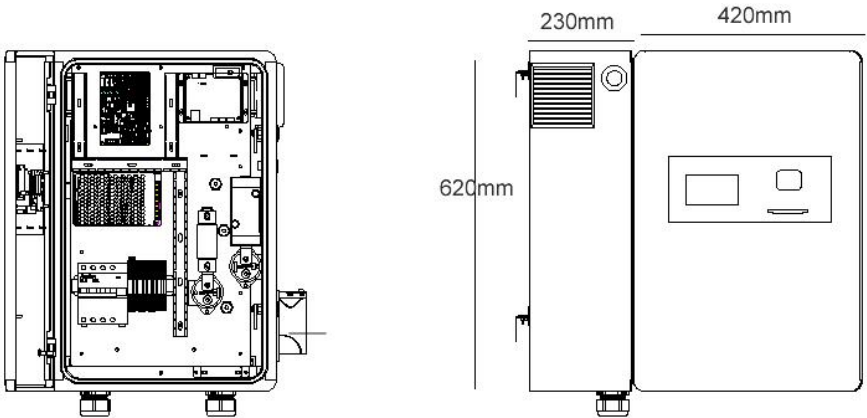
2.1 Product Specification

Model	EV020Y1-B3	EV030Y1-B3	EV040Y1-B3
Technical features			
Max Power	Up to 20KW	Up to 30KW	Up to 40KW
Input/Output power	400VAC±10%- 50/60Hz-3phase	400VAC±10%- 50/60Hz-3phase	400VAC±10%- 50/60Hz-3phase
Power factor	0.98		
Efficiency	>95%		
Measuring accuracy	Level 0.5		
Output voltage range	CCS: 200~1000VDC		
Output current range	0-50A	0-80A	0-125A
Communication	Ethernet/WIFI/4G/OCPP 1.6 J (ws wss)		
User interface	RFID card and APP		
Display	LCD 4.3 inch Touch Screen		
Versatility	IEC61851/IEC62196/ISO15111/DIN70121/EN61000-6-4:2007		
Energy Meter	CE certified		
RCD	Type A or Type B(optional)		

Security design	Over/under voltage protection, overload protection, current leakage protection, grounding protection,lightening surge protection		
DC Plugs	CCS2 Cable 5M	CCS2 Cable 5M	CCS2 Cable 5M
Physical properties			
Warranty	2 years		
Application place	Outdoor		
Installation method	Wall-mounted installation		
Operating temperature	-20℃ to +50℃		
Humidity	Max.95%(non-regulating)		
Dimensions	420*230*620mm		
Package Dimension	830*570*480mm		
Net Weight	38Kg	40Kg	43Kg
Gross Weight	45Kg	48Kg	50Kg
External Package	Carton	Carton	Carton

2.2 Dimmensions (Unit: mm)

Main Size of Charger:20-40KW



3.Installation Instruction

3.1 Before Installation

- Read all the instructions before using and installing this product.
- Do not use this product if power cable or charging cable have any damage.
- Do not use this product if the enclosure or charging connector are broken or open or if there is damage.
- Do not put any tool, material, finger or other body part into the charging connector or EV connector.



Warning: The product should be installed only by a licensed contractor and/or licensed technician in accordance with all building codes, electrical codes and safety standards.



Warning: The product should be inspected by a qualified installer prior to initial use. Under no circumstances will compliance with the information in this manual relieve user of his /her responsibilities to comply with all applicable codes and safety standards.

- Power feed must be 3 Phase Wye configuration with TN(-S)/ IT/ TT grounding systems.
- In the installation of TN(-S) system: the neutral (N) and the PE of the power distribution are directly connected to the earth. The PE of the charger equipment is directly connected to the PE of power distribution and separate conductor for PE and neutral (N).
- In the installation of IT system: the neutral of the power distribution system is isolated from the earth. The PE of the charger equipment is isolated to the PE of power distribution to the earth.
- In the installation of TT system: the neutral (N) and the PE of the power distribution are directly connected to the earth. The PE of the charger equipment is isolated to the PE of power distribution to the earth.
- The capacity of power supply should be higher than 50.0kVA(1.25 times the total power of the equipment) in order to function correctly.
- The product should be installed in free air area and keep at least 30cm clearance distance to all air vent of the product.
- Need sufficient space for product installation and maintenance, please keep not less than 60cm clearance distance from all around the product. The product should be installed in free air area and keep at least 30cm clearance distance to all air vent of the product.

3.2 Grounding and Safety Requirement

- The product must be connected to a grounded, metal, permanent wiring system. Connections shall comply with all applicable electrical codes.
- Ensure no power is connected at all times when installing, servicing, or maintaining the charger.
- Use appropriate protection when connecting to main power distribution network.
- Use appropriate tools for each task.



CAUTION: The disconnect switch for each ungrounded conductor of AC input shall be provided by installation contractor or technician.



CAUTION: A cord extension set or second cable assembly shall not be used in addition to the cable assembly for connection of the EV to the EVSE.

3.3 Service Wiring

- Ground Connection

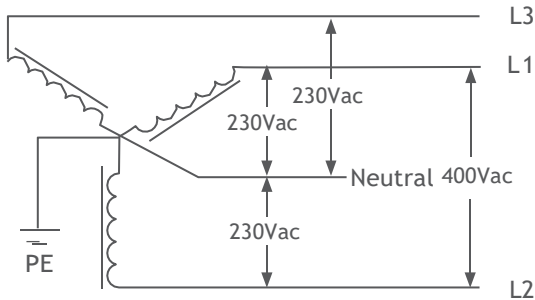
Always connect the Neutral at the service to Earth Ground. If ground is not provided by the electrical service then a grounding stake must be installed nearby. The grounding stake must be connected to the ground bar in the main breaker panel and Neutral connected to Ground at that point.

- 400Vac(Line to Line) Three-Phase

CAUTION!



This is feed from Wye-connection power grid, the DC Fast Charger can connect to L1, L2 or L3, and Neutral. Earth ground must be connected to neutral at only one point, usually at the breaker panel.



400V Three-Phase Wiring Connection

400V Three-Phase Wiring Connection



DANGERS

Be Aware of High Voltage!



WARNING!

Earth Connection is Essential!

3.4 Unpack the charger

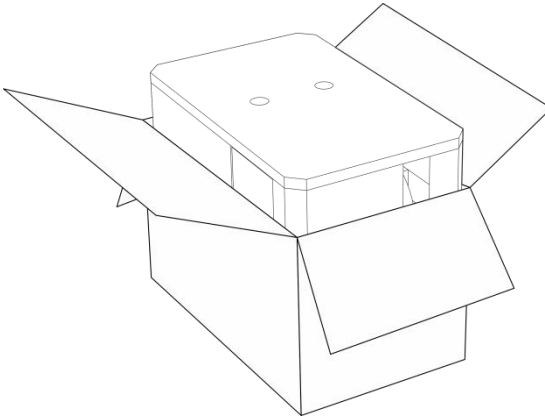


WARNING!

Charger weight might >50Kg!
Be careful during unpack process.

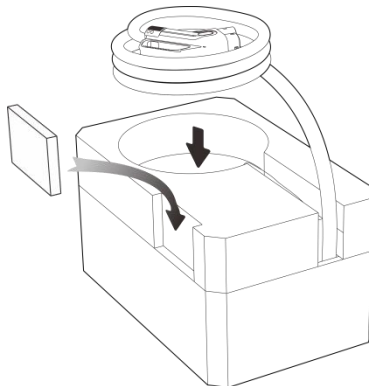
Step 1:

Remove the surrounding boards.



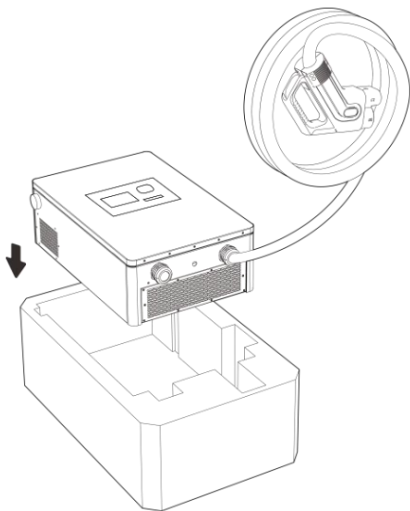
Step 2:

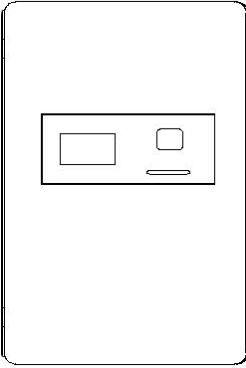
Remove the packaging film and the paper cover. Accessories are packed in a carton.



Step 3:

Remove the surrounding cardboard and film. Take out the Charger and Gun holders.



			
	User Manual (x1)	φ6 Expansion Pipe (x6)	M4*40 Screw (x6)
			
Wallbox(x1)	RFID CARD (x2)	Key (x2)	SD card(x1)

3.5 Recommended Tools for Installation and Inspection

3.5.1 Recommended Tools for Installation

Type	Description
Philips Screwdriver	No. 2 and 3
Shifting Wrench	8" (24mm)
Ball-Head Hex Key	2.5mm and 5mm
Socket Screwdriver	No. 8 ,10 and 17
Electrical Tape	Black / 15mm Width
AC Input Cable of 20KW	$\geq 6\text{mm}^2$ Cable x 5 (L1,L2,L3,N,PE)
AC Input Cable of 30KW	$\geq 10\text{mm}^2$ Cable x 5 (L1,L2,L3,N,PE)
AC Input Cable of 40KW	$\geq 16\text{mm}^2$ Cable x 5 (L1,L2,L3,N,PE)
Crimping Pliers for Ring Terminal	Applied for 16- 25mm ²
Machine Drill	
Wire Cutters	
Level Ruler	

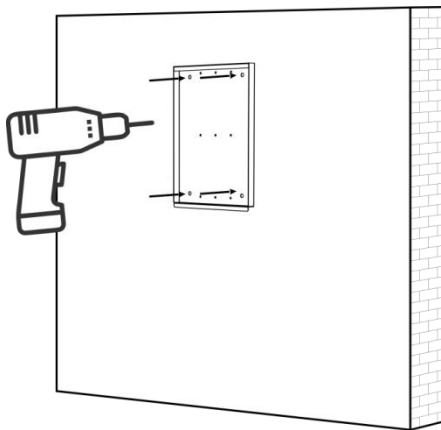
3.5.2 Recommended Tools for Inspection & Commissioning

Type	Description
EV or EV Simulator	Meet CCS2 standard
Multiple Meter	1000V
Current Probe	125Amp
RFID Authorized Card	
RFID No Valid Card	
Door Key	
Needle-Nose Plier	
Laptop or PC & CAT6 cable	For Charger Configuration

3.6 Installation Procedure Taking 30KW as an example

STEP 1.

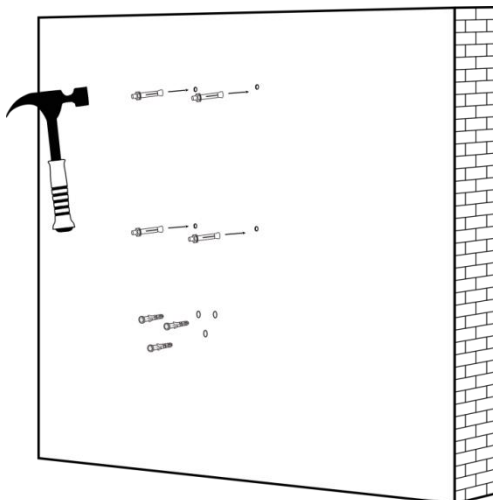
Place the wall-mounted bracket between 600mm (24 inches) and 1.2m (4 feet) above the floor, and then attach 4 pcs M10(0.39") expansion screws to the wall-mounted bracket. (Unit: mm)



Unit: mm

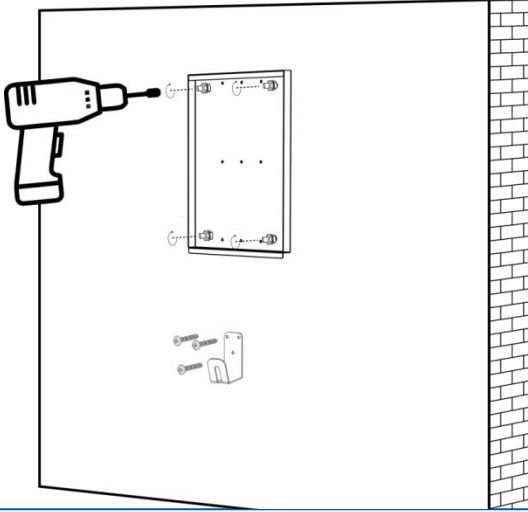
STEP 2.

Install the four tenons on the rear side of the charger into the grooves on the wall-mounted bracket.

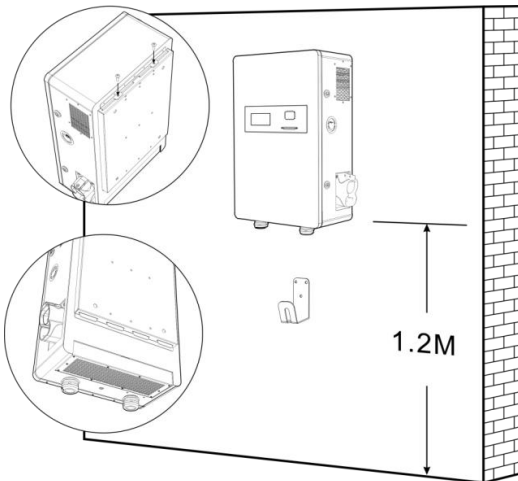


STEP 3.

Use the M17 sleeve to fix the charger backplate to the gun.screws.Use the M10 socket to fix the charger hook to the wall with expansion screws.

**STEP 4.**

Screw 2 sets M6 screws to the bon of the charger to fix the charger on the bracket; Keep the hook-shape holders as cable holder or disassemble them if not necessary.

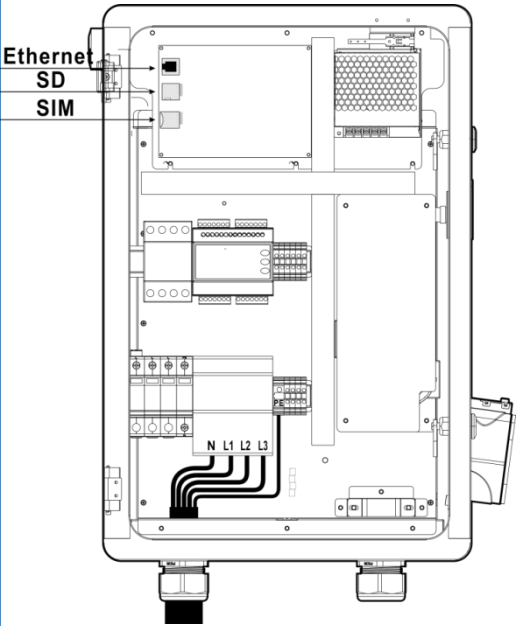


Installing the AC Input Connect

STEP 5.

20-30-40KW

Please use XLPE power cables or equivalent for AC input connection, power cable outer diameter is between 32 and 40mm. Each wire shall be crimped with the corresponding terminal before feeding. And then feeding the cable from bottom side and passing through the cable gland. L1, L2, L3, N, and PE are connected to the docking terminals as shown in the figure below.



3.7 Installation Inspection & Commissioning

3.7.1 Environmental Check

Item	Status	Remark
Ambient Temperature		
Ambient Humidity		
Sunshade		Recommended but not required.
Rain Canopy		Recommended but not required.
Air Circulation / Drafty		
Dust Level		
Anti-Vandalism Measures		

3.7.2 External Infrastructure Readiness & Check

Item	Status	Remark
Input Wirings & Terminals		Type/ Length/ Cross Section
Key & Lock of Cabinet Door		
Fixing Screws		Type / No
No Fuse Breaker (NFB)		Notice: Current rating of NFB shall be higher than 63 Amp
Residual Current Device (RCD)		Notice: Maximum RCD residual current shall not excess 30mA
Input Electricity Capacity		
Input Electricity Configuration		Wye
Grounding Resistance		<50Ω
Grounding System		
Input Voltage & Frequency		
Network Connection & Quality		LAN/ Wi-Fi/4G

3.7.3 EVSE Check - Static (Non-Powered)

Item	Status	Remark
Outlook		
Labeling & Warning Signs		
Package (Accessory) List		
Robustness of Input Wirings		

3.7.4 EVSE Check - Power On

Item	Status	Remark
Screen On		
Acoustic Noise		
Screen Display & Function		
Time Display Correctly		
Network Connection Quality		
Cooling Fans Operation & Noise		
Led Status Indication		
EVSE Setting		
Function of Engineer Mode		
Version of H.W. & F.W.		
Remote Control & Monitoring		
Backend Server Connection		

3.7.5 EVSE Check - Charging

Item	Status	Remark
User Authorization –RFID		
User Authorization –QR Code		
User Authorization –Others.		
Waiting Time of Connection Check		
Reading of Each Display Item		
Full Charge Test		
Function of Electronic Lock		
Reading of Engineer Mode		
Airflow & Noise of Cooling Fan		
Charging Record (log) Upload		
Remote Control & Monitoring		

3.7.6 EVSE Check -System Power Button

Item	Status	Remark
Emergency Stop Button		

4. Network Settings

4.1 Network type Setting

- Communication type: The choice of communication type depends on what network communication module you use.
- 4G modules and WIFI modules need to be plugged with an antenna, otherwise there will be no signal and you can't carry out network communication.
- Ethernet modules do not need to be plugged with an antenna, you can directly plug in the network cable to use.

← Net Settings

Save

Communication type

Whether to enable DHCP ☐

Loca_IP_address . . .

Gateway address . . .

Subnet mask . . .

MAC address : : : : :

< 1/3 >

Set up projects	Set the value	Set categories
Communication type	0	Ban the Internet
	1	LAN Ethernet
	2	4G network EC20 module
	3	4G network EG25G module
	5	WIFI network HLKB35 module
	6	WIFI network AIWB2 module

4.2 Server Platform Settings

← Basic Settings Save

Time setting	
Chargerpoint Vendor	
price_str	
domain_master	
pile_number_master	
pile_password_master	

< 1/4 >

- In the "Basic Settings" screen: Fill in the server/platform address in "domain_master", fill in the station in "pile_number_master", click "Save" to save, and then go back to the "About" screen and click "System reset" to reset the system

4.3 LAN Ethernet Network Connection

- First of all, you need to install the network port module on the motherboard, and then connect the network cable to the network port module, and set the network type "Communication type" to 1 in the "Net Settings" interface, Ethernet has two connection methods, static connection and dynamic connection, Note: The "MAC address" option of Ethernet connection cannot be 0, and the first digit must be an even number
- (1) Dynamic connection
In the network settings interface, set "Whether to enable DHCP" to 1 (1 is dynamic), connect to the network cable, click "Save" to save, and then go back to the "About" screen and click the "System reset" button to reset the system

← Net Settings		Save			
Communication type					
Whether to enable DHCP					
Local IP address					
Gateway address					
Subnet mask					
MAC address					

< 1/3 >

- (2) Static connection
This connection method is mainly used to obtain information such as the local IP address of Ethernet in the case that the dynamic connection cannot be connected, and set "Whether to enable DHCP" to 0 (0 is static) in the network setting interface "Net Settings", fill in the local "IP local IP address", "Gateway address", and "Subnet mask" of the Ethernet to be connected. After filling in the information, click Save to save, and then return to the "About" interface to reset the system "System reset" Note: The MAC address does not need to be changed, but it cannot be 0:0:0:0:0:0

4.4 4G Network Connection

- (1) Insert the SIM card into the card slot on the back of the 4G module, then install the 4G module on the motherboard, connect the 4G antenna, set the network type "Communication type" to 2 in the Net "Settings" interface, click "Save" to save, and then return to the "About" interface to reset the system "System reset" and wait for the network connection

← Net Settings

Save

Communication type

Whether to enable DHCP ☐

Loca_IP_address . . .

Gateway address . . .

Subnet mask . . .

MAC address : : : : :

< 1/3 >

4.5 WiFi Network Connection

- (1) Install the WIFI module on the motherboard, install the WIFI antenna on the WIFI module, set the network type in the "Net Settings" interface, and set the "Communication type" to 6

← Net Settings

Save

Communication type

Whether to enable DHCP

Loca_IP_address . . .

Gateway address . . .

Subnet mask . . .

MAC address : : : : :

< 1/3 >

- (2) Go to the third page in "Net Settings", fill in the WIFI name "WIFI name" and WIFI password "WIFI password" to be connected, click "Save" to save, and then return to the "About" interface to reset the system "System reset", and wait for the network connection. Note: "WIFI mode" does not need to be ignored, just select 0 by default

← Net Settings

Save

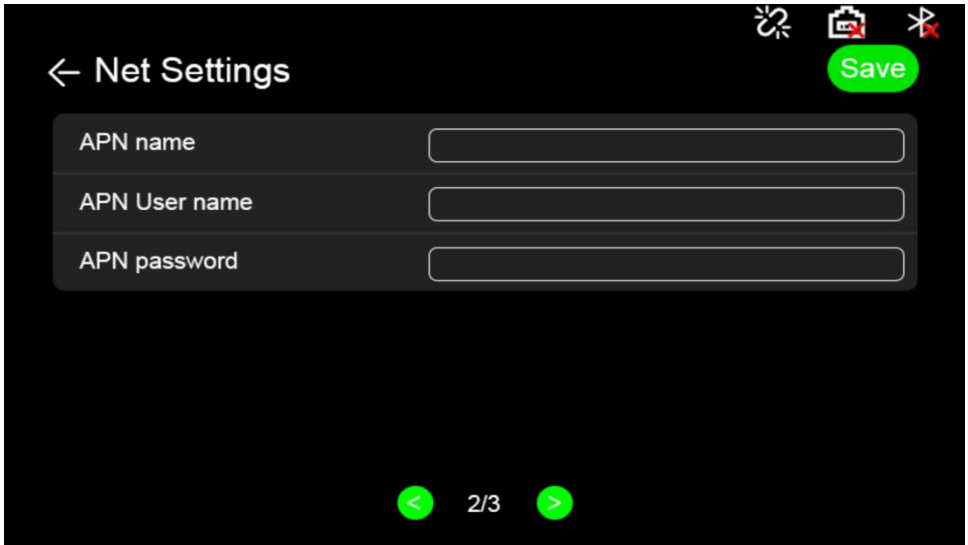
WIFI mode

WIFI name

WIFI password

< 3/3 >

4.6 APN Setting



The screenshot shows a mobile application interface for 'Net Settings'. At the top left is a back arrow icon. To its right is the title 'Net Settings'. Further right are three status icons: a signal strength indicator, a Wi-Fi icon, and a Bluetooth icon. On the far right is a red 'Save' button. Below the title, there are three input fields stacked vertically, each with a label on the left and a text box on the right: 'APN name', 'APN User name', and 'APN password'. At the bottom of the screen, there are three navigation buttons: a left arrow, the text '2/3', and a right arrow.

- APN name

Network access address: there are many types of external networks that can be accessed, such as: Internet, WAP website, enterprise internal network, industry dedicated network, etc

- APN User name

APN authentication user name

- APN password

The authentication password that is used with the user name

Note: The APN function is not available at the moment

5、 Operation Process

5.1 RGB LED indicators

Charger status	LED performance
Standby	green blink
charging	Light green breath
Fault status	Red flashing

5.2 LCD indicators

the Charger config a 4.3-inch LCD screen, which is mainly used to display various status information of the charging station.

The following is an introduction to the commonly used pages.

■Standby page introduction



Fig. 5-1 Display of icons and instructions

In Fig. 1-2, there are three areas to display icons or instructions, with the specific meanings as follows:

No. Area ①	Icon	Description
1		The connection to the server is successful
2		Connected a network through 4G cellular
3		Connected a network through WIFI
4		Connected a network through Ethernet
5		Not currently supported
Area ②		
6	SN	Serial number of EVSE
Area ③		
7	status	EVSE status information

■ Introduction of system information



Fig. 5-2 Display of System information

In Fig. 1-2, click "System", you can enter the system information interface to view the fault information and module information, if the charging pile fails before charging, you can enter here to view the error information, the error

information shows each error in the form of polling,If you want to view the rate information, you can click "Rate" in the upper right corner.As shown in Figure 1-3

■Go to the admin interface

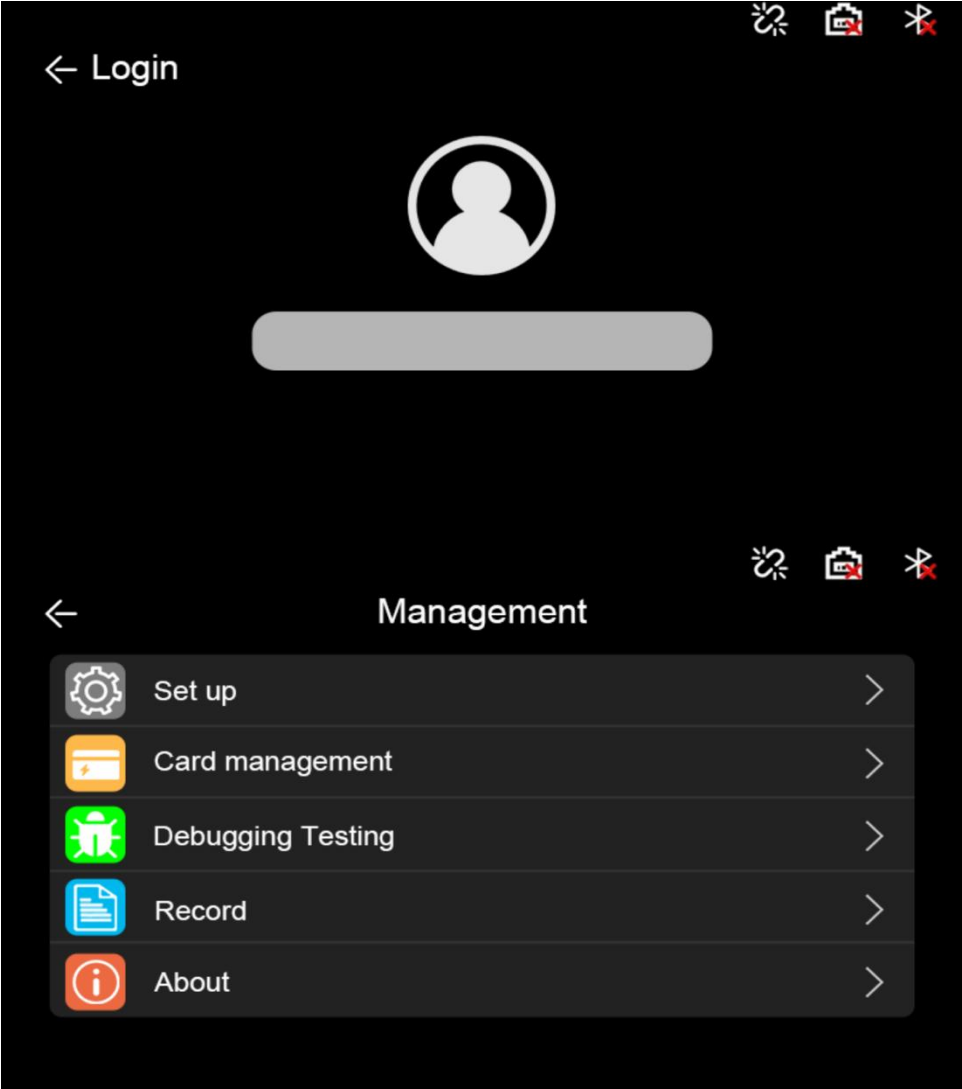
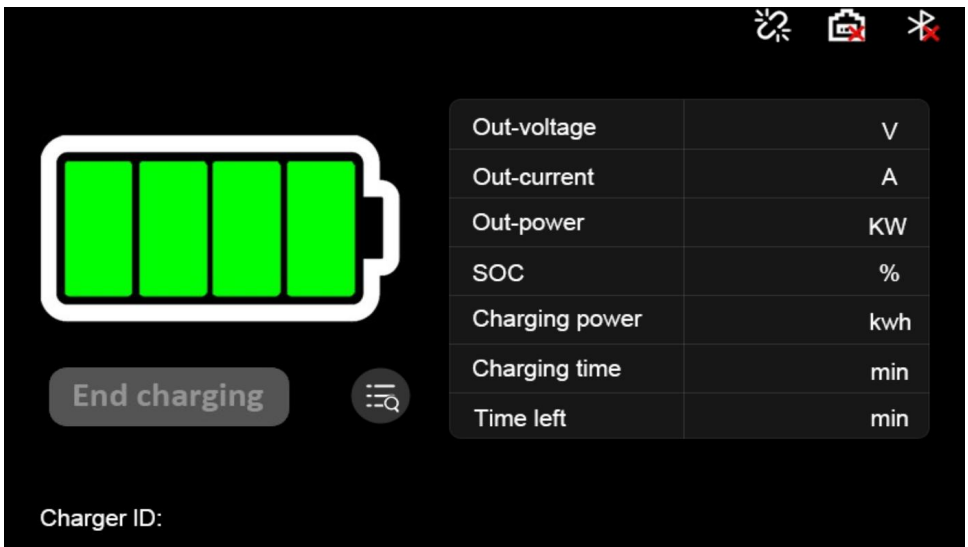


Fig. 5-3 Display of Management information

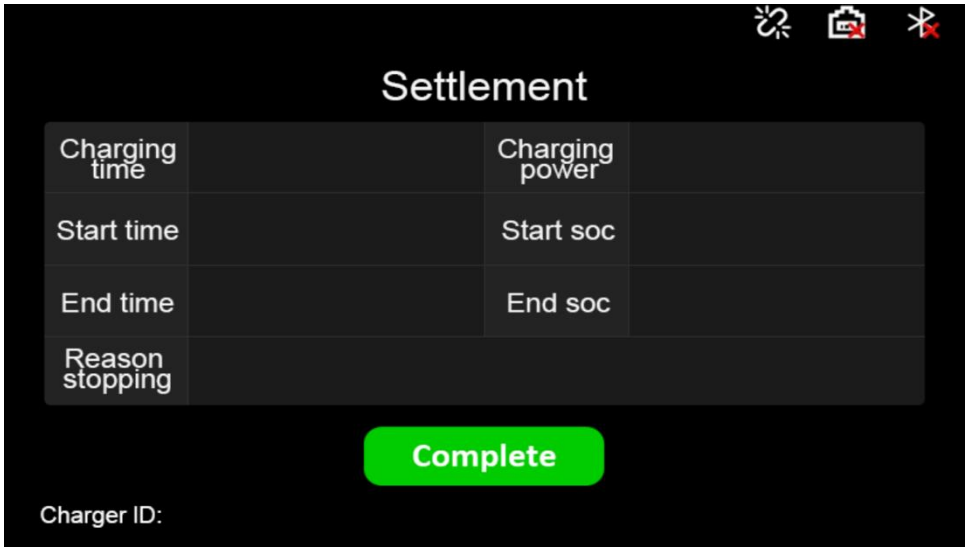
- Click the upper left corner of the interface in Figure 1-2 once to enter the Login Interface.
- The login password is: 1
- The information on the management interface is as follows

1	Set up	Set options, system parameters
2	Card management	Enter/bound RFID or delete RFID
3	Debugging Testing	Debugging options
4	Record	Recording options, including charging records and event records
5	About	Software version details and system reset

■Introduction of during charging information



■Introduction of End charging information



The image shows a 'Settlement' screen with a table of charging data. At the top right are three icons: a lightning bolt, a battery, and a crossed-out lightning bolt. The table has four rows and two columns. The first row has headers 'Charging time' and 'Charging power'. The second row has 'Start time' and 'Start soc'. The third row has 'End time' and 'End soc'. The fourth row has 'Reason stopping' and a single large cell. Below the table is a green 'Complete' button. At the bottom left is the text 'Charger ID:'.

Charging time	Charging power
Start time	Start soc
End time	End soc
Reason stopping	

Complete

Charger ID:

Fig. 5-5 Display of Finished

Fig. 1-6, after charging, click "Complete" to return to the standby interface

5.3"Set up" parameter setting

5.3.1Basic Settings

← Basic Settings

Save

Time setting

-

-

:

:

Chargerpoint Vendor

price_str

domain_master

pile_number_master

pile_password_master

<

1/4

>

Fig. 5-6 Display of Basic Settings1

Time setting	description	System time calibration
	note	Not supported
Chargerpoint Vendor	description	Information about charging pile manufacturers
	note	
price_str	description	Charging and billing rules
	note	Not supported
domain_master	description	URL server address
	note	The unit is minutes
pile_number_master	description	Pile number
	note	
pile_password_master	description	key
	note	If the server provides a key, you need to fill it in, generally, it is not necessary to fill it out

← Basic Settings Save

domain_slave

pile_number_slave

pile_password_slave

QR code

< 2/4 >

Fig. 5-7 Display of Basic Settings2

domain_slave	description	From the server address
	note	Not supported
pile_number_slave	description	From the pile number
	note	Not supported
pile_password_slave	description	From the server key
	note	Not supported
QR code	description	QR code value
	note	Not supported

← Basic Settings

Save

factory_number		soc_stop	
sys_passwd		in_contactor_off_delay	
charge_passwd		settle_info_delay	
gun_availability		fan_off_delay	
max_output_curr		max_power	

<

3/4

>

Fig. 5-8 Display of Basic Settings3

factory_number	description	Device factory serial number
	note	Not supported
sys_passwd	description	System management login password
	note	
charge_passwd	description	The user initiates the verification password for charging
	note	Not supported
gun_availability	description	Enable/disable the charging port interface
	note	default
max_output_curr	description	Maximum output current per gun
	note	
soc_stop	description	The battery charge is full and stops at the threshold
	note	
in_contactor_off_delay	description	Contactor is delayed to open after charging
	note	The unit is: minutes
settle_info_delay	description	The waiting time before the settlement information is
	note	Not supported
fan_off_delay	description	Fan shutdown delay time
	note	Unit: minutes

max_power	description	Maximum power output with a single gun
	note	

← Basic Settings Save

pm_sum		
insulation_test		
rfid_sn_reverse		

< 4/4 >

Fig. 5-9 Display of Basic Settings⁴

pm_sum	description	Number of power modules
	note	
insulation_test	description	Automatic detection of cable insulation before charging
	note	0 Close 1 Open
rfid_sn_reverse	description	The reading order of RFID card number is reversed
	note	0 Close 1 Open

5.3.2 Device Configuration

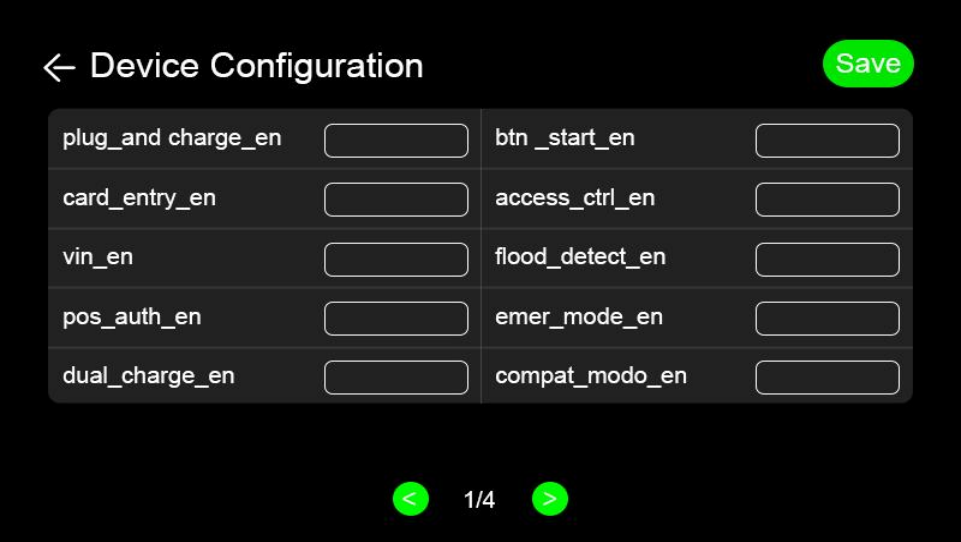


Fig. 5-10 Display of Device Configuration1

plug_and_charge_en	description	Plug and charge function switch
	note	0 Close 1 Open
card_entry_en	description	Card authentication switch
	note	0 Close 1 Open
vin_en	description	VIN code charging switch
	note	0 Close 1 Open
pos_auth_en	description	POS machine payment authentication switch
	note	Not supported
dual_charge_en	description	Dual gun simultaneous charging switch
	note	0 to close and 1 to open
btn_start_en	description	The pushbutton switch starts
	note	0 to close and 1 to open,currently, most charging piles do not support this function
access_ctrl_en	description	Door and window linkage control switch
	note	0 to close and 1 to open
flood_detect_en	description	Water detection switch
	note	Not supported
emer_mode_en	description	Emergency mode switch
	note	0 Close 1 Open
compat_mode_en	description	

	note	Not supported
--	------	---------------

← Device Configuration Save

fan_en		dc_contactor_det_en	
elect_locker_en		lightning_det_en	
in_contactor_en		passwd_charge_en	
in_contactor_det_en			

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Fig. 5-11 Display of Device Configuration2

fan_en	description	radiator fan
	note	0 to close and 1 to open
elect_locker_en	description	Charging gun electronic lock
	note	0 to close and 1 to open
in_contactor_en	description	Input contactor
	note	0 to close and 1 to open
in_contactor_det_en	description	Contactor status detection
	note	0 to close and 1 to open
dc_contactor_det_en	description	DC contactor detection
	note	0 Close 1 Open
lightning_det_en	description	Lightning protection detection
	note	0 to close and 1 to open
passwd_charge_en	description	The password activates the charging
	note	Not supported

← Device Configuration

Save

tz_code_type		led_type	
meter_type		language_type	
card_reader_type		park_lock_type	
pile_work_type		leak_curr_check_type	
gun_protocol_type		bt_type	

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Fig. 5-12 Display of Device Configuration3

tz_code_type	description	Time zone encoding standards
	note	Not supported
meter_type	description	Type of meter
	note	
card_reader_type	description	Type of card reader
	note	Default parameters
pile_work_type	description	Charging pile working mode
	note	
gun_protocol_type	description	Charging gun communication protocol
	note	There are 3 values to choose from (3, 4, 5), 3: Integrated SECC, 4: Standalone SECC, 5: GBT
led_type	description	Type of indicator light
	note	There are only two options, 0 or 1, which generally defaults to 0
language_type	description	Language type
	note	English only
park_lock_type	description	Parking lock type
	note	Not supported
leak_curr_check_type	description	Current leakage detection method
	note	Not supported
bt_type	description	Bluetooth module type

	note	Not supported
--	------	---------------

The selection of the type of electricity meter can be made according to the model of the electricity meter

Setup items	Set the value	Model category
meter_type	0	DL645 protocol
	1	SDM230
	2	DLT645_07_DJZ1226
	3	No meter, take module voltage

← Device Configuration Save

bms_power_type		gun_temp_det type	
screen_type		load_type	
voice_device_type		pm_type	
qr_code_type			

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Fig. 5-13 Display of Device Configuration⁴

bms_power_type	description	BMS power supply type
	note	Not supported
screen_type	description	Display type
	note	Default parameters
voice_device_type	description	Type of voice device
	note	Default parameters
qr_code_type	description	QR code generation standard

	note	Default parameters
gun_temp_det_type	description	Type of muzzle temperature detection
	note	Default parameters
load_type	description	loadtype
	note	Default parameters
pm_type	description	Power module type
	note	Default parameters

There are multiple options for the power module. The following are the options for pm_type, and select different values according to the model of the power module

Setup items	Set the value	model
	0	automatic recognition
pm_type	1	SER100020K3B
	2	UR100030-SW
	3	YKR power-supply module
	4	REG75050A
	5	THREEU, three-phase power module
	6	UR100020-SW
	7	SER100030K3C
	8	REG1K0135
	9	UR100040-SW
	10	REG75050
	11	REG1K0100A20
	12	REG1K070
	13	REG75020S
	14	SJ20K1000UR
	15	TH THREE40F10030C7.
	16	TH THREE 30F10030c8
	17	TH20F10025C7

5.3.3 Network Settings

See Chapter 4, "Network Settings"

5.3.4 Protection Settings

← Protection Configuration

Save

ac_ov_en	☐	ac_oc_en	☐
ac_ov_pick_value_ratio		ac_oc_pick_value_ratio	
ac_ov_drop_value_ratio		ac_oc_drop_value_ratio	
ac_ov_pick_delay		ac_oc_pick_delay	
ac_ov_drop_delay		ac_oc_drop_delay	

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Fig. 5-14 Display of Protection Settings1

ac_ov_en	description	Enable AC overvoltage protection
	note	
ac_ov_pick_value_ratio	description	Overvoltage trigger threshold (percentage of rated voltage)
	note	
ac_ov_drop_value_ratio	description	Overvoltage recovery threshold (percentage of rated voltage)
	note	
ac_ov_pick_delay	description	Overpressure trigger delay time
	note	Unit: 100ms
ac_ov_drop_delay	description	Overvoltage recovery delay time
	note	Unit: 100ms
ac_oc_en	description	Enable AC overcurrent protection
	note	
ac_oc_pick_value_ratio	description	Overcurrent trigger threshold (percentage of rated current)
	note	
ac_oc_drop_value_ratio	description	Overcurrent recovery threshold
	note	
ac_oc_pick_delay	description	Overcurrent trigger delay
	note	Unit: 100ms
ac_oc_drop_delay	description	Overcurrent recovery delay
	note	Unit: 100ms

← Protection Configuration

Save

dc_ov_en	☐	dc_oc_en	☐
dc_ov_pick_value_ratio		dc_oc_pick_value_ratio	
dc_ov_drop_value_ratio		dc_oc_drop_value_ratio	
dc_ov_pick_delay		dc_oc_pick_delay	
dc_ov_drop_delay		dc_oc_drop_delay	

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Fig. 5-15 Display of Protection Settings2

dc_ov_en	description	DC overvoltage protection enabled
	note	
dc_ov_pick_value_ratio	description	DC overvoltage trigger threshold
	note	
dc_ov_drop_value_ratio	description	DC overvoltage recovery threshold
	note	
dc_ov_pick_delay	description	DC overvoltage trigger delay
	note	Unit: 100ms
dc_ov_drop_delay	description	DC overvoltage recovery delay
	note	Unit: 100ms
dc_oc_en	description	DC overcurrent protection enabled
	note	
dc_oc_pick_value_ratio	description	DC overcurrent trigger threshold
	note	
dc_oc_drop_value_ratio	description	DC overcurrent recovery threshold
	note	
dc_oc_pick_delay	description	DC overcurrent trigger delay
	note	Unit: 100ms
dc_oc_drop_delay	description	DC overcurrent recovery delay
	note	Unit: 100ms

← Protection Configuration

Save

gun_ot1_en		gun_ot2_en	
gun_ot1_pick_value		gun_ot2_pick_value	
gun_ot1_drop_value		gun_ot2_drop_value	
gun_ot1_pick_delay		gun_ot2_pick_delay	
gun_ot1_drop_delay		gun_ot2_drop_delay	

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Fig. 5-16 Display of Protection Settings3

gun_ot1_en	description	Dual temperature sensor protection enabled
	note	
gun_ot1_pick_value	description	Overtemperature trigger temperature
	note	
gun_ot1_drop_value	description	Temperature recovery threshold
	note	
gun_ot1_pick_delay	description	Overtemperature trigger delay
	note	
gun_ot1_drop_delay	description	Temperature recovery delay
	note	
gun_ot2_en	description	Dual temperature sensor protection enabled
	note	
gun_ot2_pick_value	description	Overtemperature trigger temperature
	note	
gun_ot2_drop_value	description	Temperature recovery threshold
	note	
gun_ot2_pick_delay	description	Overtemperature trigger delay
	note	
gun_ot2_drop_delay	description	Temperature recovery delay
	note	

Note:The above parameters do not need to be configured

← Protection Configuration

Save

pile_ot_en	☐	reserve_en	☐
pile_ot_pick_value		reserve_value	
pile_ot_drop_value		reserve_value	
pile_ot_pick_delay		reserve_delay	
pile_ot_drop_delay		reserve_delay	

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Fig. 5-17 Display of Protection Settings4

pile_ot_en	description	Pile overtemperature protection enabled
	note	0 Close 1 Open
pile_ot_pick_value	description	Pile body overtemperature trigger temperature
	note	
pile_ot_drop_value	description	Pile temperature recovery threshold
	note	
pile_ot_pick_delay	description	Overtemperature trigger delay
	note	The unit is minutes
pile_ot_drop_delay	description	Overtemperature recovery delay
	note	
reserve_en	description	Reserve parameters, etc., as backup
	note	
reserve_value	description	Reserve parameters, etc., as backup
	note	

← Protection Configuration

Save

reserve_en		reserve_en	
reserve_value		reserve_value	
reserve_value		reserve_value	
reserve_delay		reserve_delay	
reserve_delay		reserve_delay	

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Fig. 5-18 Display of Protection Settings5

All parameters are reserved parameters and others are extended for backup

← Protection Configuration Save

attentuation_max reserve_max

attentuation_min reserve_min

Insulation_alarm_max reserve_max

Insulation_alarm_min reserve_min

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Fig. 5-19 Display of Protection Settings⁶

attentation_max	description	Maximum signal attenuation
	note	
attentation_min	description	Signal attenuation minimum
	note	
insulation_alarm_max	description	Alarm upper limit of insulation resistance
	note	
insulation_alarm_min	description	Lower limit of insulation resistance alarm
	note	
reserve_max	description	Reserve parameters, etc., as backup
	note	
reserve_min	description	Reserve parameters, etc., as backup
	note	

5.4 Charging method:

5.4.1 Single machine mode

← Device Configuration Save

plug_and charge_en		btn_start_en	
card_entry_en		access_ctrl_en	
vin_en		flood_detect_en	
pos_auth_en		emer_mode_en	
dual_charge_en		compat_modon_en	

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Fig. 5-20 Display of Stand-alone mode setting

Set “plug and charge en” to 1 , and you can plug in the charger.

5.4.2 Single card swiping

5.4.2.1 Start charging by swiping the card

Device Configuration	
plug_and_charge_en	
card_entry_en	
vin_en	
pos_auth_en	
dual_charge_en	

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Set “plug and charge en” to 0, “card entry en” to 1, and “vin en” to 0. If the card number is not entered, record the card number as shown in the figure below

Card management

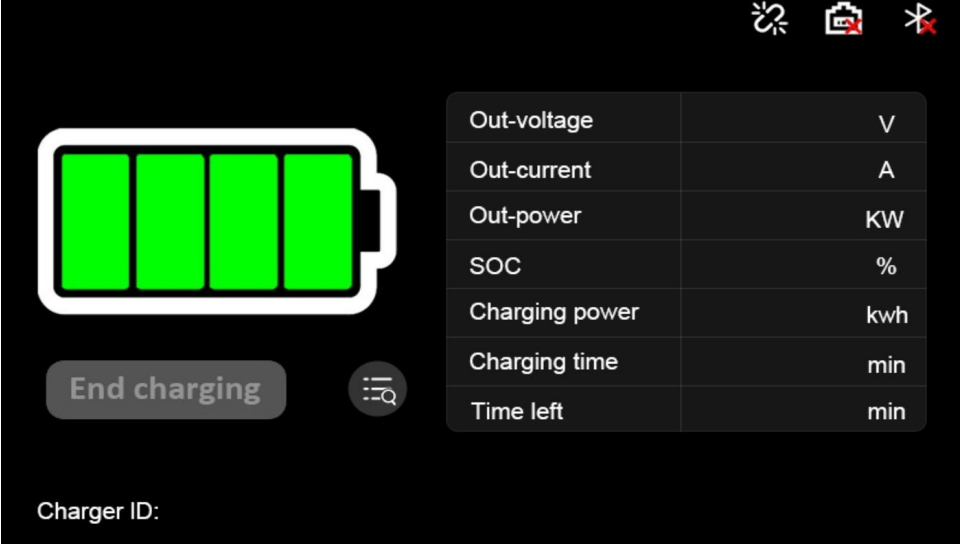
Enter the card number, please swipe your card!

	Delete		Delete
	Delete		Delete
	Delete		Delete

Fig. 5-21 Display of enter the card number

Record the card number or if the card number has been recorded, start charging by swiping the card.

5.4.2.2 Swipe the card to end charging



When you want to swipe your card to end the charge, click “End charging” and you will enter the swipe interface, as shown in the figure below



Fig. 5-22 Display of the card is over

At this point, you can swipe your card to end the charge

5.4.3 Internet card swiping and code scanning charging

5.4.3.1 Network card swiping and charging

After connecting to the server, swipe the RFID card, and the charging pile will send the card number to the server. After the server finds this card number, it will be input into the server, and then the charging card can be swiped.

5.4.3.2 Connect to the network and scan the QR code for charging

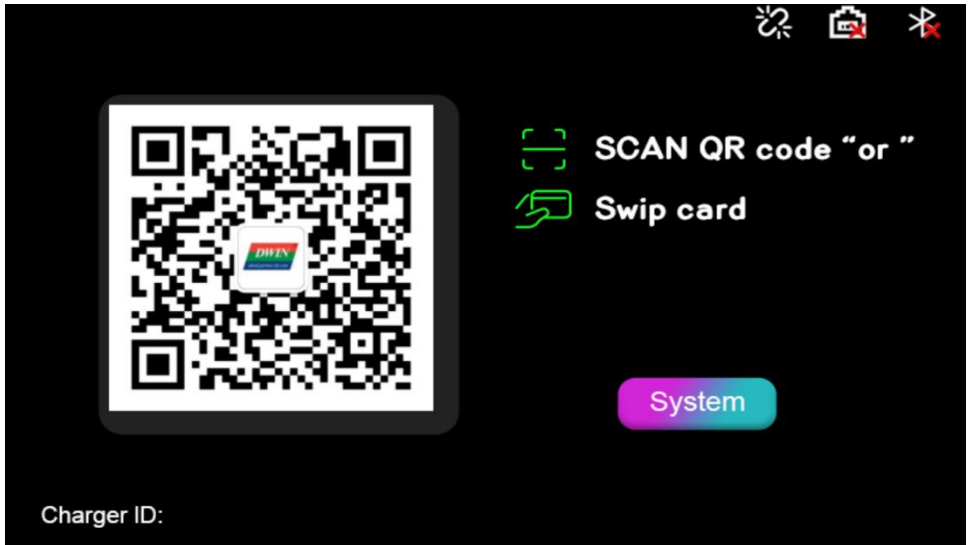


Fig. 5-23 Display of qr code

Set in the "qr_code_type" setting item on the first page of the Device Configuration interface:

Setup items	Set the value	Setting type
qr_code_type	0	Customize the QR code value
	1	Use the pile number as the QR code value

If a custom QR code is used, the "qr_code_type" setting must be set to 0.

← Device Configuration

Save

bms_power_type		gun_temp_det type	
screen_type		load_type	
voice_device_type		pm_type	
qr_code_type			

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Then go to the second page of the Basic Settings interface and set the custom QR code value in the “QR code” option

← Basic Settings

Save

domain_slave	
pile_number_slave	
pile_password_slave	
QR code	

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Fig. 5-23 Display of the QR code settings

5.6 One-click start of VIN



Fig. 5-24 Display of VIN Start

Set the "vin_en" setting item on the first page of the "Device Configuration" interface: Note: If you want to use the VIN one-click startup function, please set the plug-and-charge "plug_and_charge_en" setting to 0 and the "vin_en" setting to 1

before setting the function

Setup items	Set the value	Setting type
plug_and_charge_en	0	Turn off USB charging (necessary)
vin_en	0	close
	1	start using

After setting the parameters, click "Save" to save, and then return to the "About" interface to reset the system "System reset", and you can see the "VIN Start" button on the standby interface after the machine is reset

5.7 Troubleshooting

- Please follow the instruction in the table when errors occur during the charging process.
- Or please contact the DC Quick Charger provider for further instructions.
- If an emergency occurs push the Emergency Stop Button to stop charging immediately.

5.8 Status Codes

For latest status code, please visit our website.

Status Code	Description	Solution
0001	Emergency stop	If fault occurs, please rotate the button clockwise to reset the charger
0002	CCS output fuse blew	If fault occurs, please check & replace the fuse
0003	AC input contactor 1 welding	If fault occurs, please check & replace the contactor
0004	CCS output relay welding	If fault occurs, please check & replace the Relay
0005	CCS connector temperature sensor broken	If fault occurs, please check & replace the sensor.
0006	Relay control module / smart box broken	If fault occurs, please check & replace the Relay control module.
0007	CCS Power module fault	If fault occurs, please replace the CCS Power module.
0008	Maximum Output Current setup error	If fault occurs, please reset the correct value.
0009	Maximum Output Voltage setup error	If fault occurs, please reset the correct value.
0010	BLE module broken	If fault occurs, please replace the BLE module.
0011	4G module broken	If fault occurs, please replace the 4G module.
0012	Ethernet BLE module broken	If fault occurs, please replace the Ethernet BLE.
0013	wifi module broken	If fault occurs, please replace the wifi module.
0014	CCS connector OTP	If fault occurs, please check & reset the OTP value.
0015	SPD trip	If fault occurs, please replace the SPD Module.
0016	CCS ground fault detection timeout (GFD)	If fault occurs, please check the Ground line.
0017	RFID module communication fail	If fault occurs, please check Communication line with RFID.
0018	Power module communication fail	If fault occurs, please check can line with power module.
0019	Door open	If fault occurs, please close the door & recharge with vehicle.
0020	System fan decay	If fault occurs, please replace the fan.

0021	AC Ground Fault	If fault occurs,please check the Ground line.
0022	CCS EV communication Fail	If fault occurs,please check Connecting wire with vehicle.
0023	DC MeterFailure	If fault occurs,please check connecting wire with meter
0024	CCS ISO Fault	If fault occurs,please check connecting wire with vehiclcle
0025	LCD communication Fail	If fault occurs,please check connecting wire with LCD"
0026	Input volt over	If fault occurs,please checking power cables"
0027	Output volt over	If fault occurs,Pull out the connector and reconnect it to start charging
0028	ISO timeout Faulted	If fault occurs,please checking whether the power module is loose"
0029	Bat reverse Faulted	If fault occurs,please checking gunline output"
0030	GB/T elelock err	If fault occurs,please checking gunelelock is broken"
0031	Inside overtemp	If fault occurs,please checking temperature is too high or tempsensor is damaged"
0032	Loadbalance meter com error	If fault occurs,please check connecting wire with loadbalance meter"
0033	Pos communication	Please check the pos device cables andpower supply"

6. Maintenance

6.1 General Maintenance

- The DC Fast Charger is cooled by forced air. Please keep charger in a ventilated location and do not block the air vents of the DC Fast Charger .
- Please clean or replace the air filters regularly to ensure the DC Fast Charger works properly.
- Clean the DC fast Charger at least three times a year, keep the exterior clean at all times.
- Clean the outside of the cabinet with damp cloth or wet cotton towel, only use low-pressure tap water and cleaning agents with PH level between 6 to 8.
- Do not apply high-pressure water jets.
- Do not use cleaning agents with abrasive components and do not use abrasive tools. Improper cleaning agents might spoiled coating, painting, surface, brightness and durability of all exterior parts.
- If there is water intruding into the DC Fast Charger then please cut off the power source immediately and contact the DC Fast Charger provider for repair.
- Please make sure the charging connector is returned to the holder of the charging connector after charging to prevent damage.
- If there is damage to the charging connector, charging cable or holder of the charging connector then please contact the DC Fast Charger provider.
- When using the DC Fast Charger please handle properly. Do not strike or scrape the cabinet or touchscreen.
- If the enclosure or touch screen is broken, cracked, open or shows any other indication of damage then please contact the Standalone DC Fast Charger provider.



WARNING: Danger of electrical shock or injury. Turn OFF power at the panelboard or load center before working on the equipment or removing any component. Do not remove circuit protective devices or any other component until the power is turned OFF.

- Disconnect electrical power to the DC Fast Charger before any maintenance work to ensure it is separated from the supply of AC mains. Failure to do so may cause physical injury or damage to the electrical system and charging unit.

Note:

- Before switching off main breaker to begin maintenance, please record the status code number on the LCD monitor.
- After switching off the key switch the circuit before the main terminal is still hazardous. Only visual inspection can be operated.
- Maintenance of the DC Fast Charger shall be conducted only by a qualified technician.
- After opening the front door of the DC Fast Charger, turn off the main breaker and auxiliary breaker before any maintenance work.
- Replace the ventilation filter every six to twelve months.

6.2 Limited Product Warranty

The warranty period for this charger is two years.

Any spare parts provided by EVSE Technology and used as replacements for repair are covered by a two year guarantee.

Replacement and repair parts manufactured by alternative manufacturers to those on the maintenance parts are only allowed if authorized by EVSE.

Warranty Exclusions:

- Damage or rendered non-functional as a result of power surges, lighting, earthquake, fire
- flood, pest damage, abuse, accident, misuse, negligence or failure to maintain the product or other event beyond EVSE's reasonable control or not arising from normal operating condition.
- Cosmetic or superficial defect, dents, marks or scratches after use.
- Components which are separate from the product, ancillary equipment and consumables, such as door key, RFID card, air filter, fuse, cable, wires and connectors.
- Damage as a result of modifications, alterations or disassembling which were not pre-authorized in writing by EVSE.
- Damage due to the failure to observe the applicable safety regulations governing the proper use of the product.
- Installed or operated not in strict conformance with the documentation, including without limitation, not ensuring sufficient ventilation for the product as described in evse installationinstruction.

If a defect in the product arises and valid claim is received within the warranty period, your sole and exclusive remedy will be for EVSE, at its sole discretion and to

extent permitted by law, to

1. Repair the defect in the product at no charge, using new or refurbished parts.
2. Exchange the product with new or refurbished product that is functionally equivalent to the original product.

Any remedy hardware product will be warranted for the remainder of the original warranty period or 90 days from delivery to the customer, whichever is longer.

In order to receive the remedy set for above, you must contact EVSE during the warranty period and provide the model number, series number, proof of purchase, and date of purchase.

7. Appendix - Package list

Item	Description	Quantity	Remark
1	EVSE	1	
2	User Manual	1	
3	OQC Report	1	
4	RFID Card	2	
5	Key of Cabinet	2	
6	5/16" Expansion Screw	4	Each Gun Holder*2pcs
7	3/8" Expansion Screw		
8	M12 Screw	6	
9	2.5mm Ball-Head Hex Key	1	