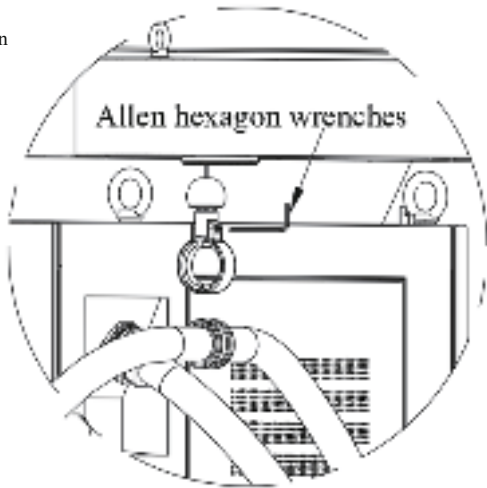
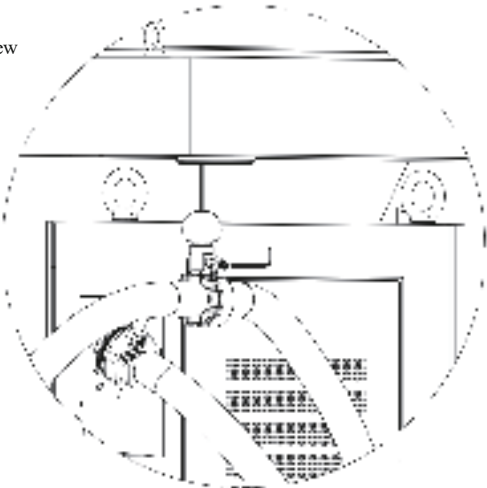


I

Use a hex wrench to loosen the screw of the cord coil and install the cord coil at a suitable length on the charging cable.



Replace the cover on the cable and fasten the screw to finish installation



7.6 Inspection & Commissioning

- When the “↑” button is pressed, the charging cable will move upward. At this time, the cable is in the process of retracting the cable. The reset will be completed when the retracting operation stops automatically.
- When the “↓” button is pressed, the charging cable will move downward. At this time, the cable is in the process of releasing the cable. Each cable release lasts about 30 seconds and the length of the cable is 2~3 meters.



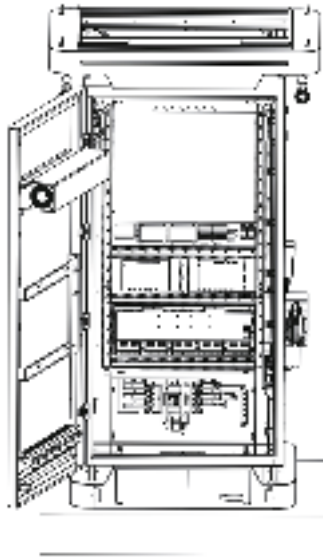
Please note:

1. Press the “■” button for the first time to ensure that the cable moves upwards and repositioning is completed.
2. During the cable release operation, you can choose to stop or continue releasing the cable.
3. During the cable retracting process, as the main control board is resetting each time the cable is wound, please do not press any button to ensure the next operation can be smoothly into the cable. The “■” button should only be used in case of emergency.

7.7 Installing Cable

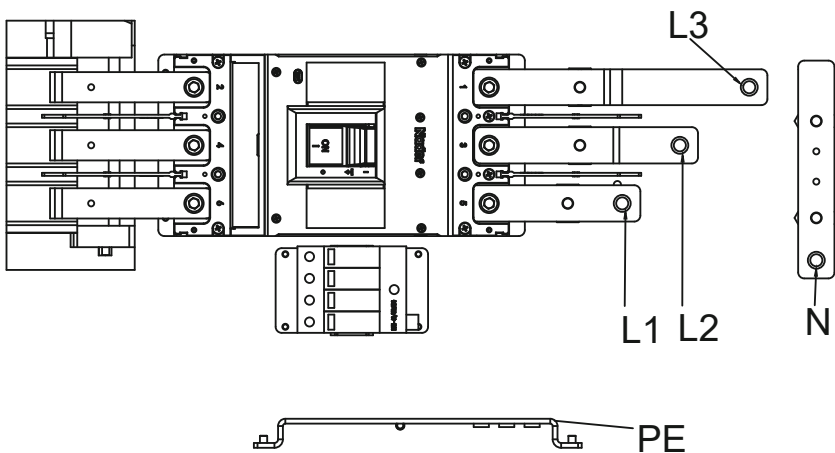
STEP 1

Open front and right door and disassemble the protection cover for wiring



STEP 2

Connect L1, L2, L3 and N of AC power to 4P terminal. Fasten each wire with proper screw and torque number -180Kgf.cm/5-15 secs. Connect the PE wire (green with yellow) to grounding position of charger and torque number -220Kgf.cm. Keep proper length of each wire then fasten cable grand.



STEP 3

Pull AC power cables to power distribution box, connect the Protective Earth wire (Green/Yellow) to ground point of power distribution box. Neutral should be shorted with ground point to meet TN(-S) grounding system. Ethernet cable should be connected to charger RJ45 port and fixed with adhesive cable ties.

STEP 4

Wiring installation of L1, L2, L3 and Neutral wire to an external breaker. Recommended breaker spec.: Max. input current shall be not less than 300A, B Curve type. Max residual leakage current (RCD) shall be 30mA.



A 300A NFB with 30mA RCD – Type A is recommended.

STEP 5

Do Inspection as section 11.8.

Turn on the power source and be ready for operational testing. The power supply of the Standalone DC Fast Charger will be enabled and automatically drive the information screen. Information screen will turn to Supplier charging solution screen within 30 seconds.



Not following installation instruction will cause charger damage.

STEP 6

Use adaptive flame retardants and electrical insulated foaming agent and far from conductive live parts at least 12mm or other method to seal the cable entry hole to assure the IP54 grade of the charger, and prevent insects enter the cabinet.

STEP 7

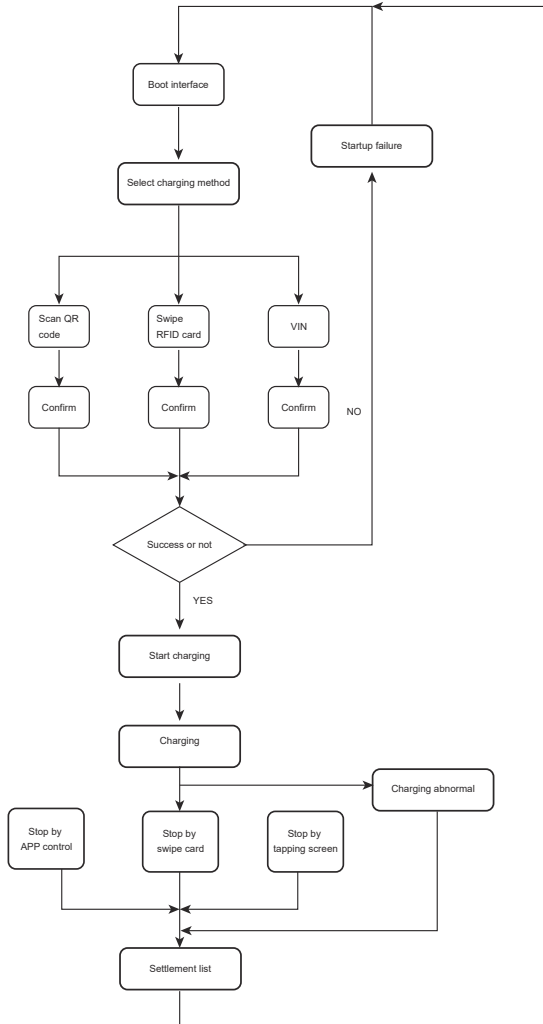
Decorative LED Light Control settings

Use these settings to set the functional timer for DC Charger LED Lights



8. Charging operation

8.1 Charging operation flowchart



8.2 Process for Setting Parameters

a.Parameter setting

1. Click on the top right corner for language selection, and click continuously on the bottom left corner 5 times to enter the settings page.



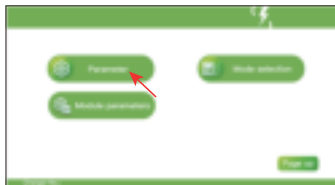
2. Click the “Parameters” to enter the settings.



3. Enter the 4-digit password ****, the initial password is 1020.



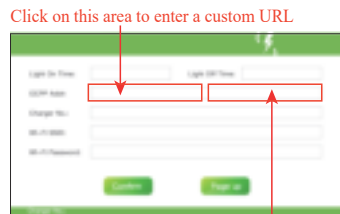
4. Click “Parameter” .



5. Enter the time when the decorative lights start and end operation at 1 and 2 respectively. Enter the WIFI name and password at 5 and 6 respectively. Click confirm



Note: When entering the ocpp address at 3, click on the first half to enter a custom URL and click on the second half to select the default URL.



b. Setting the Network mode.

It must be ensured that step “a. Parameter setting” has been completed before processing this step.

Procedure for setting Ethernet.

1. Plug the Ethernet cable into the port.



2. Click “Mode Selection” on the settings screen.



3. Tick Ethernet,
Click Confirm, the system will restart automatically



4. After the Ethernet is successfully connected, the following icon appears in the upper right corner of the page



Note: If the connection is unsuccessful and the following icon appears in the upper right corner of the page, it means that the connection between the server and the charging pile is abnormal, please check whether the “ocpp address” and “charger number” in the parameter setting are correctly input or not.



Procedure for setting WIFI

1. Click "Mode Selection" on the settings screen.



2. Tick WIFI,
Click Confirm to save, the system will restart automatically.



4. After the WIFI network is successfully connected, the following icon appears in the upper right corner of the page.



Note: If the connection is unsuccessful and the following icon appears in the upper right corner of the page, it means that the connection between the server and the charging pile is abnormal, please check whether the "ocpp address" and "charger number" in the parameter setting are correctly input or not.



Procedure for setting 4G

1. Remove the card tray by inserting a card removal pin into the small yellow hole on the router.



2. Insert the 4G card correctly.



3. Click "Mode Selection" on the settings screen.



4. Tick 4G,
Enter the corresponding APN address at 4G APN
Click Confirm to save, and the system will restart automatically.



5. After the 4G network is successfully connected, the following icon appears in the upper right corner of the page.



Note: If the connection is unsuccessful and the following icon appears in the upper right corner of the page, it means that the connection between the server and the charging pile is abnormal, please check whether the "ocpp address" and "charger number" in the parameter setting are correctly input or not.



8.3 Charging Mode Startup operation interface

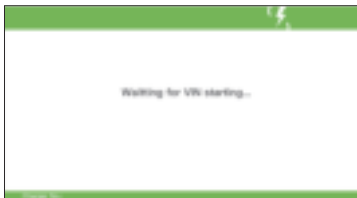
This series of charger has three startup modes: VIN code, scanning QR code and swiping card (online card swiping/ offline card swiping) . Specific examples are as follows:

a. VIN Code Chagering.

1. Main interface.



2. Click VIN code to charge.



3. After successfully identification, enter the charging interface.



4. Stop charging and enter the settlement interface.



5. Enter the settlement interface.



6. Thank you.



b. Charging by Scanning QR Code.

Scan the QR code on the pile directly with APP

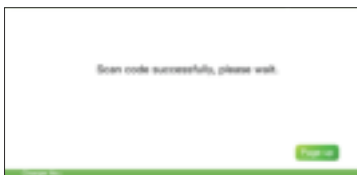
1. Main interface.



2. Charging by Scanning QR Code.



3. Wait for the user to scan code and confirm to start by using APP.



4. Scan the code and enter the charging interface.



5. Stop charging and enter the settlement interface.



6. Enter the settlement interface.



7. Thank you.



c. Charging by Swiping Card(Online/ Offline Card Swiping)

1. Main interface.



2. Charging by Swiping Card.



3. Select swipe RFID Card, then put the card to swipe.



4. Enter the charging interface.



5. Swipe the card again to stop charging and enter the settlement interface.



6. Enter the settlement interface.



7. Thank you.



8.4 Troubleshooting

If the charging device is malfunctioning, the prompt light is always red , and the screen displays the cause of the malfunction, please follow the instructions in the table.

Description	Reason	Solution
Failure of electric meter!	Unable to communicate with the electricity meter	Check if the terminal is loose, otherwise contact customer service
Failure of insularion!	Unable to communicate with DC insulation tester	Check if the terminal is loose, otherwise contact customer service
Lightning protection fault!	Pile detected lightning protection signal	Check if the terminals are loose or if the lightning protection changes from green to red, otherwise contact customer service
Door fault!	The door is open.	Check that the door is closed, otherwise contact customer service
Emergency stop!	Emergency stop button pressed or broken button	Check that the emergency stop is pressed, otherwise contact customer service
Power module error!	Incorrect number of charging modules, or module failure	Open the side door to check if the module lights up red, otherwise contact customer service
PLC error!	Unable to communicate with PLC	Check if the terminal is loose, otherwise contact customer service

Notes:

- If the above fault information occurs simultaneously in a large number of devices, it is highly likely to be a firmware error, and technical personnel need to be contacted to upgrade the pile
- Please pay attention to high voltage when dealing with the above related troubleshooting, and try to complete it under the guidance of professionals.

9 Maintenance

9.1 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.
- The housing was made of welding process and surface painting. It is necessary to keep the exterior clean all the time. It's easy to get rusty if not keeping the exterior clean especially in corrosion sensitive environment. Slightly rusty will not affect charger performance, but if charger is serious rusty during or exceed the warranty period, please contact local vendor for instruction.
- 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 use cleaning agents with abrasive components and do not use abrasive tools. Improper cleaning agents might spoil 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 screen.
- If the enclosure or screen is broken, cracked, or shows any other indication of damage, please contact the 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 maintenance, door opened or NFB of charger turned off the charger 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.
- Clean the ventilation filter every six to twelve months
- Please confirm the main power junctions are tightened every month, and rotate cables testing when the power off, If any main power screw is loose will be resulted in damage on charger or smoke on the connections.
- Please confirm screw torque requirement table.
- Charging cable maintenance: Do not twist, bend the charging cable. The metal contact should not fade or be rusty.
- Please provide the EVSE information including serial number, model name, status code, failure behavior and timing, and also connect the EVSE to the Internet before remote diagnostics and upgrading

Screw Torque requirement table




Screw in Metric						
Screw size	Screw type	Steel Inch-Lbs.	Steel Kgf-Cm	Steel N-m	Aluminum Kgf-Cm	Aluminum N-m
M2*0.4	Machine	3~4.77	3.5~5.5	0.34~0.54	3~4.5	0.34~0.44
M2.5*0.45	Machine	3~4.77	3.5~5.5	0.34~0.54	3~4.5	0.34~0.44
M3*0.5	Machine	5.5~9	6.5~10.5	0.64~1.04	5.2~8.4	0.51~0.82
M3.5*0.6	Machine	8.5~13	10~15	0.98~1.47	8~12	0.78~1.18
M4*0.7	Machine	13~18	15~21	1.47~2.06	12~17	1.18~1.66
M5*0.8	Machine	25~34	29~39	2.84~3.82	23~32	2.26~3.14
M6*1.0	Machine	45~55	52~63.5	5.1~6.22	42~51	4.11~5
M6*1.0	Hex cap	85~112	98~129	9.6~12.65	78~103	7.65~10.1
M8*1.25	Machine	106~141	122~163	11.96~15.98	98~130	9.61~12.75
M8*1.25	Hex cap	205~274	237~316	23.24~30.98	190~253	18.63~24.8
M10*1.5	Hex cap	212~382	245~440	24.02~43.15	196~351	19.22~34.42
M12*1.75	Hex cap	372~668	430~770	42.17~75.49	343~615	33.63~60.3
Screw in Imperial						
2-56	Machine	1.5~2	1.7~2.3	0.17~0.22	1.4~1.8	0.14~0.18
4-40	Machine	3~4	3.5~4.5	0.34~0.44	2.8~3.6	0.27~0.35
6-32	Machine	6~10	7~11.5	0.68~1.13	5.6~9.2	0.55~0.9
8-32	Machine	10~15	11.5~17	1.13~1.66	9.2~14	0.9~1.37
10-32	Machine	16~24	18.5~28	1.81~2.74	15~22	1.47~2.16
1/4-20	Machine	35~46	40~53	3.92~5.2	32~42	3.14~4.11
1/4-20	Hex cap	57~77	66~89	6.47~8.73	53~71	5.2~6.96
5/16-18	Hex cap	119~158	137~182	13.43~17.85	110~145	10.77~14.21
3/8-16	Hex cap	205~274	237~316	23.24~30.99	190~253	18.63~24.82
7/16-14	Hex cap	338~451	390~521	38.24~51.09	312~416	30.59~40.79
1/2-13	Hex cap	515~686	595~792	58.35~77.66	476~634	46.68~62.17

9.2 Air Filter Cleaning Method




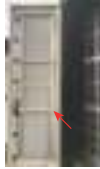

Clean the filter behind the front door

			
1. After confirming that the power is disconnected, open the front doorway.	2. Remove the top, left and right side screws with a socket screwdriver. Remove the metal protective cover.	3. Remove dust from the fan with a hair dryer or vacuum cleaner. (It is not necessary to disassemble the fan for routine maintenance; it is necessary to disassemble the fan to clean it after a long period of use when the dust is too thick to be removed by a hair dryer machine.)	4. Put the metal protective cover back in place and tighten the screws.






Clean the filters on the front of the unit on the lower left and lower right sides.

		
1. Use a screwdriver to loosen the screws on the pressure bar (no need to remove the bar) and remove the filter.	2. Remove dust from the filter with a hair dryer or vacuum cleaner. You can also gently pat the filter.	3. Put the cleaned filter back in place, install the pressure bar and tighten the screws.

Clean the left side air filter

				
1. Open the left door.	2. Remove the screws with a socket screwdriver, remove the pressure strip and take out the filter.	3. Remove dust from the filter with a hair dryer or vacuum cleaner. You can also gently pat the filter.	4. Put the cleaned filter back on and secure the filter with the press and screws.	5. Remove dust from the module fan with a hair dryer or vacuum cleaner.

Clean the Right side air filter

				
1. Open the right door.	2. Loosen the top and bottom screws halfway with a socket screwdriver (you don't need to take them out). Remove the right side screw with a Phillips screwdriver. Remove the right side cover plate.	3. Remove dust from the filter with a hair dryer or vacuum cleaner. You can also gently pat the filter.	4. Put the cleaned filter back on, paying attention to the front and back sides (the side with the cushioning foam faces the outside of the body through the mesh holes).	5. Put the cover plate back in place and tighten the top, bottom and right side screws.

9.3 Replacement Kits and Accessories

The DC EVSE offers the following replacement kits and accessories.

Replacement Kit List
7-inch LCD
CCS1 125Amp (or above) DC charging connector & Charging cable
Charging Cable Holder
Emergency Stop Button
30kW DC PSU U-1K0100
MW Aux. Power HEP-100-12V
MW Aux. Power HEP-600-24V
Control & Supervisory Unit (CSU3.0)
Surge Protection Device (SPD)
DC Fan
Air Filters
Door Key
Gland(PG48)
Relay board
Fan board
LED board
4G/Wi-Fi board
DC Relay
AC Contactor
NFB & RCD

10. Instruction of Packing, Handling, Transportation and Storage

Package:

Weight	120KW	180KW	240KW
	580Kg	616Kg	660Kg
Dimensions	1470*920*2335mm(57.87"*36.22"*91.93")		

- The transportation can be by car, vessel and aircraft.
- During transportation, please pay attention to sunscreen and civilized loading and unloading, avoiding violent vibration and impact, etc.
- Products should be stored in Class I environment and stored for more than 6 months are recommended to be re-tested and can only be used if they are qualified.

11. Limited Product Warranty

The warranty period of this charger is according to purchasing contract; two years typically.

Any spare parts provided by Supplier 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 Supplier.

The housing was made of welding process and surface painting. It is necessary to keep the exterior clean all the time. It's easy to get rusty if not keeping the exterior clean especially in corrosion sensitive environment. Slightly rusty will not affect charger performance, but if charger is serious rusty during or exceed the warranty period, please contact local vendor for instruction.

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 Supplier'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 that were not pre-authorized in writing by the Supplier.
- 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 the Supplier installation instruction.

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

- Repair the defect in the product at no charge, using new or refurbished parts.
- Exchange the product with a 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.

To receive the remedy, set for above, you must contact the Supplier during the warranty period and provide the model number, series number, proof of purchase, and date of purchase.

This warranty does not cover the damages caused by adapter usage accidents or by other unauthorized operations/services.



Name of Manufacturer: SHENZHEN HB ELECTRONIC CO., LTD

Address : Floor 301, Bldg 21, Zhengdaan Industrial Park, 172 Xiangshan Rd,
Luotian Village Yanluo Town, Baoan District Shenzhen City 518105, China