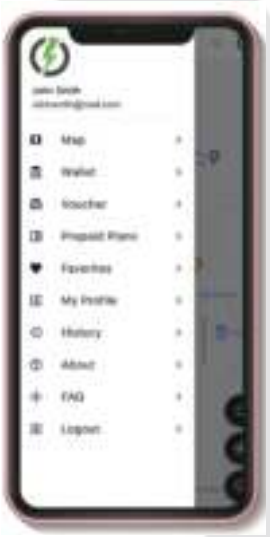
12. Operation Process

12.1 Operating Procedure (ONLINE)

For commercial purposes, this product can be connected to internet via Wi-Fi or 4G LTE. This is the case for Public and Semi-Public chargers. The chargers can be accessed using EVBOLT Application or WebApp.

12.1.1 EVBOLT iOS/Android Application



i. Download the EVBOLT App from AppStore or Play Store
ii. Create an account on the app, or use an existing account
iii. Add the payment method
iv. Locate the charger on the app
v. Start the transaction in the app
vi. Plug-in the connector to the vehicle inlet
vii. Stop the charging session at the end
viii. Disconnect the connector from vehicle

12.1.2 EVBOLT WebApp

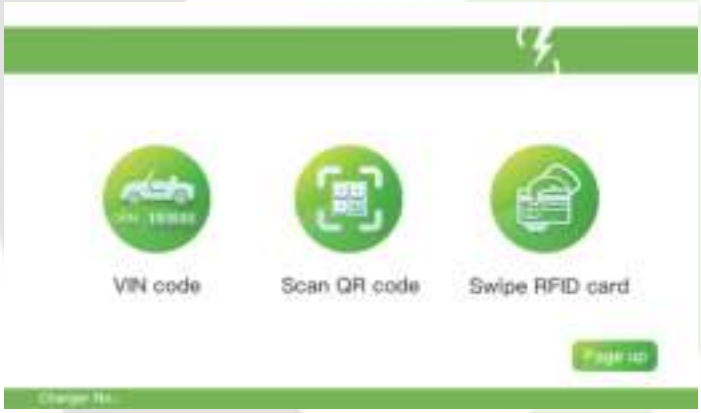
i. Scan the QR Code located on the charger
ii. Add the payment method
iii. Start the transaction in the app
iv. Plug-in the connector to the vehicle inlet
v. Stop the charging session at the end
vi. Disconnect the connector from vehicle

12.2 Operating Procedure (OFFLINE)

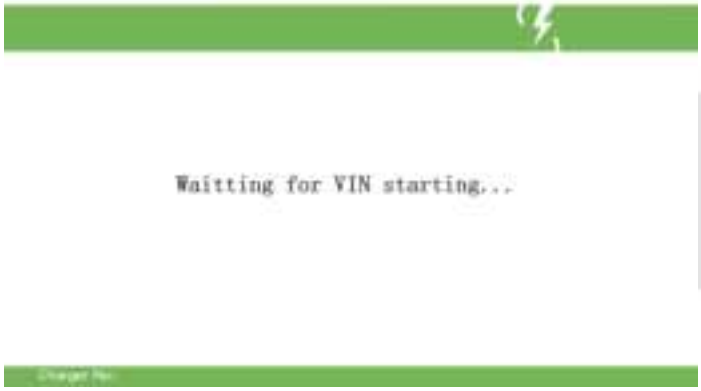
Please use either one of the following methods to start charging session when in Offline Mode

12.2.1 VIN

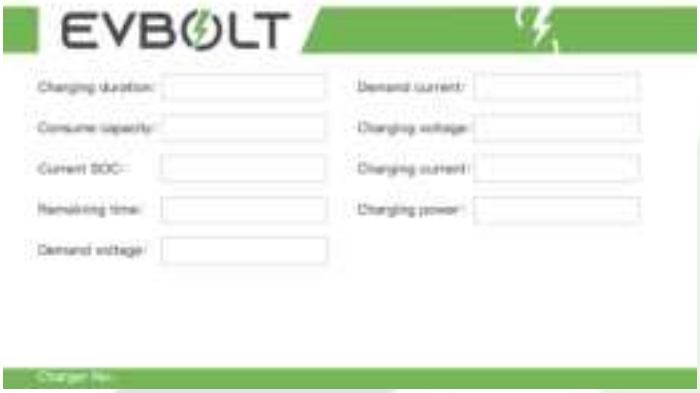
Simply plug in the charger to the vehicle and tap the screen to proceed.



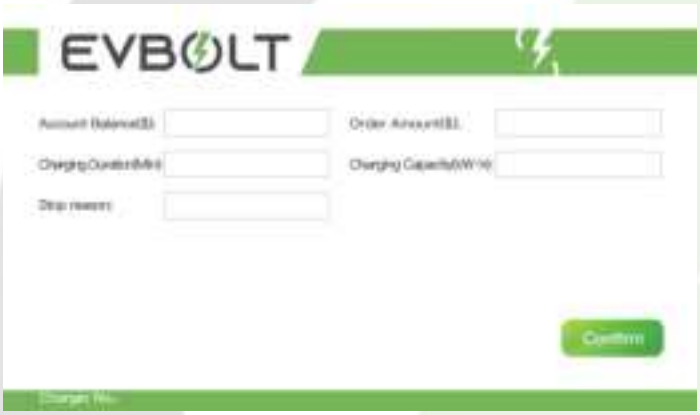
Tap “VIN code” method.



Wait to read the VIN of the car and initiate charging automatically



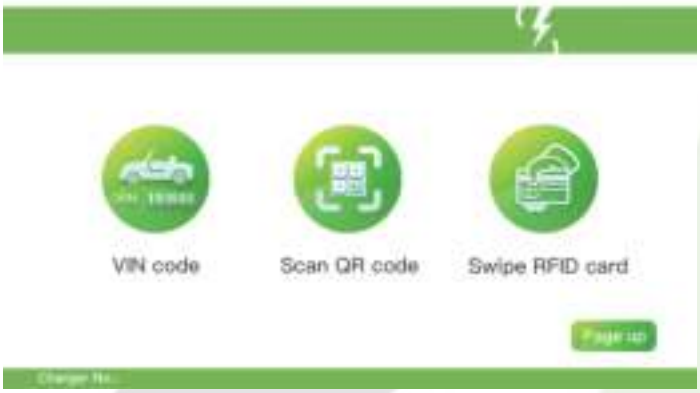
The screen will display charging data and the LED ring will start blinking GREEN once the charging starts .



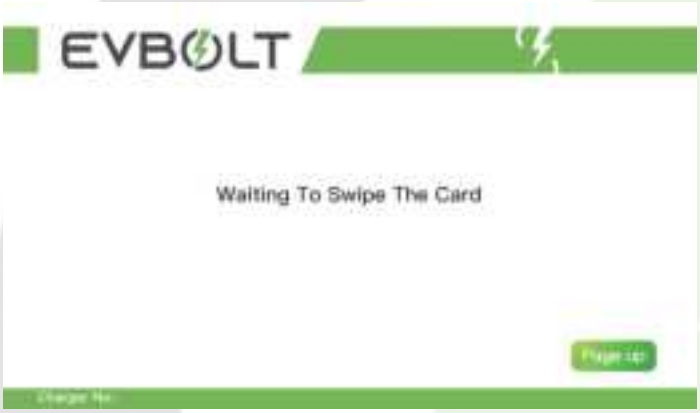
Unplug the charger to stop charging and enter the settlement interface

12.2.2 RFID Authentication

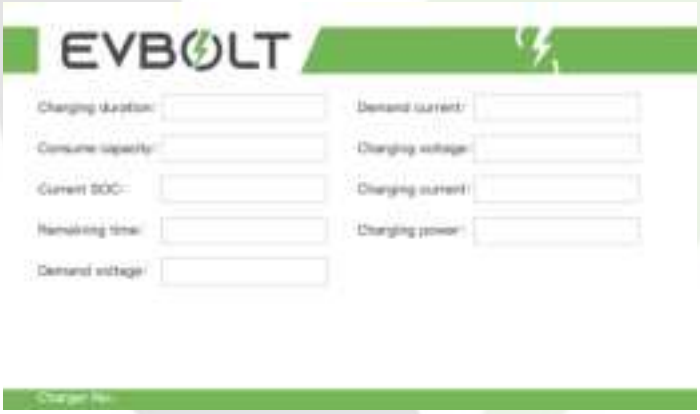
Simply plug in the charger to the vehicle and tap the screen to proceed.



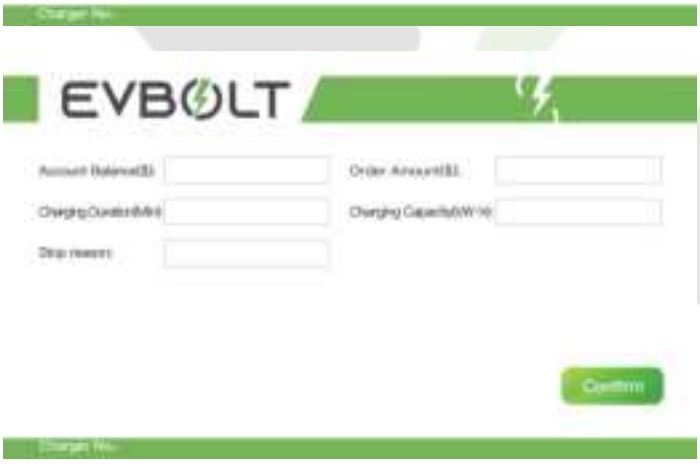
Tap “RFID card” method.



Swipe RFID card to initiate charging



The screen will display charging data and the LED ring will start blinking GREEN once the charging starts .



Swipe the RFID Card again to stop charging and enter the settlement interface.

12.3 Troubleshooting

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

12.4 Status Codes

*For latest status code, please visit our website.

Description	RED Light	Notes
CHAdeMO output fuse blew	Constantly Bright	Contact customer service
CCS output fuse blew	Constantly Bright	Contact customer service
GB output fuse blew	Constantly Bright	Contact customer service
DC output relay welding	Constantly Bright	Contact customer service
DC output relay driving fault	Constantly Bright	Contact customer service
DC output relay welding	Constantly Bright	Contact customer service
DC output relay driving fault	Constantly Bright	Auto recover
CCS output relay welding	Constantly Bright	Auto recover
CCS output relay driving fault	Constantly Bright	Contact customer service
GB output relay welding	Constantly Bright	Contact customer service
GB output relay driving fault	Constantly Bright	Contact customer service
AC connector temperature sensor broken	Constantly Bright	Contact customer service
CHAdeMO connector temperature sensor broken	Constantly Bright	Auto recover
CCS connector temperature sensor broken	Constantly Bright	Auto recover
GB connector temperature sensor broken	Constantly Bright	Contact customer service
Wi-Fi module broken	Constantly Bright	Auto recover

13. Maintenance

13.1 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 apply high-pressure water jets.
- 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, 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 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.
- Replace 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

Air Filter Cleaning Method

Clean the filters on the front of the unit on the upper left and upper right sides.
No need to disassemble the fan for daily maintenance; Use a hair dryer to remove dust from the fan.
After a long time of use, when the dust is too thick to be removed with a hair dryer, please follow the following steps to clean it.

			
1.After confirming that the power is disconnected, open the front doorway. Remove screws on the fan.	2.Take out the filterunder the fan.	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 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.

EVBOLT

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

13.2 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(M50)
User Manual
Relay board
Fan board
LED board
4G/Wi-Fi board
DC Relay
AC Contactor
NFB & RCD

14. 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.