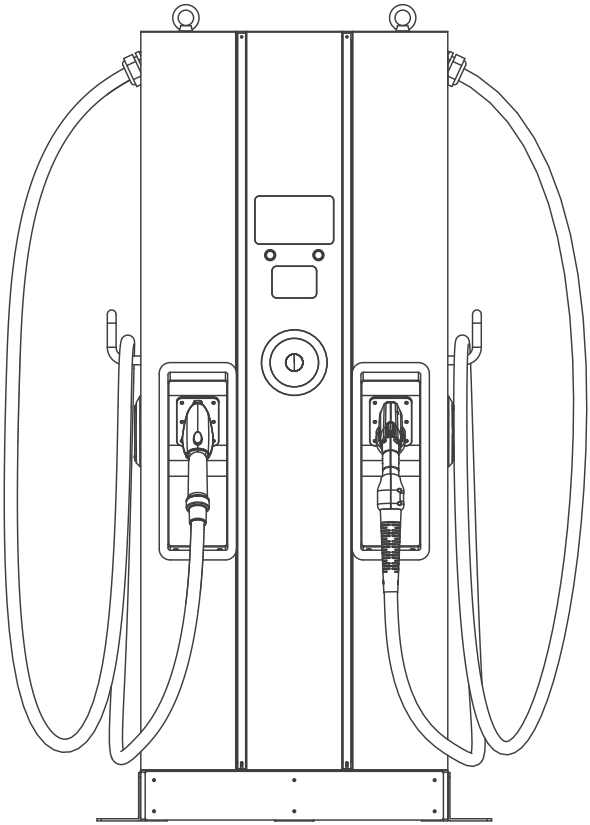
DD Series

DC 360kW Power Dispenser

User Manual & Installation Instructions



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The customized appearance is subject to the customer's description.

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Revision History：

Revision	Date	Description	Author
DDWx362 SeriesPH-RW_V0.1	2021/07/12	UL First Issue	Monique
DDWx362 SeriesPH-RW_V0.2	2021/10/13	concrete base modified	Monique

Introduction

The Power Dispenser Fast Charger is the top choice to power battery electric vehicle (BEV) and plug-in hybrid electric vehicle (PHEV). It is designed for quick charging in both public and private locations, such as retail and commercial parking spaces, fleet charging station, highway service area, workplace, residence, etc. The Power Dispenser Fast Charger has the advantage of easy installation. The pluggable power modules realize flexible and cost-effective installation for different types of locations. The Power Dispenser 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 Power Dispenser 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.

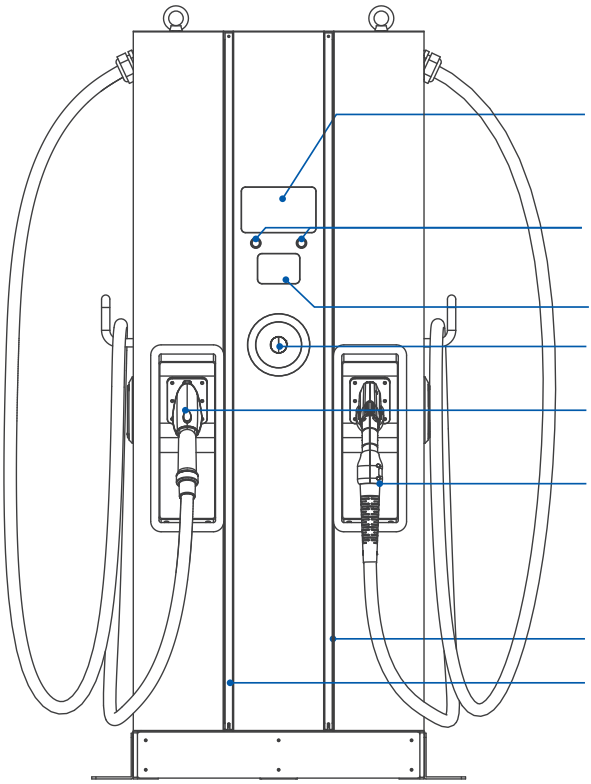
Features

- 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 according the latest industry standards.
- 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.
- Upgradeable to simultaneously 4 DC charging, up to 360KW per output with liquid-cooled connector up to 500A

Applications

- Public and Private Parking Area
- Community Parking Area
- Parking Area of Hotel, Supermarkets and Shopping Malls
- Workplace Parking Area
- Charging Station
- Highway Rest Area

1. Basic User Interface



7" Information Screen
- Charging Process
- Charging Status
- Alarm

Left Button (home)
Right Button (select)

RFID Card Reader

Emergency Stop

Left Charging Connector

Right Charging Connector

*The charging connectors installed on the EVSE may vary depending on the designated application.

Right LED Indicator

Left LED Indicator

2. Specification

2.1 Product Specification

Model Name		DDWx362 Series
AC Input	Input Voltage	1Φ, 277 Vac (+10%, -15%) (From Cabinet 480 VAC, 3 Phase, (+10%, -15%) (408 ~ 528 VAC))
	Input Current Rating	1Φ, 7.9 A
	Electrical Distribution	1P+N+PE
	Power Grid System	TN/TT
	Frequency	50/60Hz
DC Input	Maximum Input Voltage	950VDC
	Simultaneously Input Mode	0%, 25%, 50%, 75%, 100% of 360kW
	Voltage Accuracy	±2%
	Current Accuracy	±2%
DC Input Power Cable	Please refer to the P.13~14 of power cabinet user manual	
DC Output	Output Voltage Range	CCS1/CCS2:150Vdc ~ 950Vdc CHAdeMO 150Vdc ~ 500Vdc
	Maximum Output Current	** Liquid Cooling CCS1/CCS2 500A@150Vdc ~ 720Vdc when output voltage up to 950Vdc the output current is 380A **Natural Cooling CCS1/CCS2 Combo, ** Single output mode 200A@150Vdc-950Vdc Option: 300A@150Vdc-950Vdc **CHAdeMO 200A@150Vdc ~ 500Vdc

	Maximum Output Power	360kW
	Simultaneously Output Mode	0%, 25%, 50%, 75%, 100% of 360kW
	Voltage Accuracy	±2%
	Current Accuracy	±2%
Maximum distance between power cabinet and dispenser	30M	
Standby Power	< 100W	
Communication	External	Ethernet
	Internal	CAN Bus/ RS485
Output Protection	SCP, OCP, OVP, LVP, OTP, IMD	
Internal Protection	OTP, DC contactor detection	
User Interface & Control	Display	7-inch LCD
	User Authentication	RFID:Support ISO 14443A/B, ISO 15693, FeliCa Lite-S (RCS966), OCPP, APP, Mobile Payment
	Backend Support	Please refer to the user manual of cabinet
Environmental Conditions	Operation Temperature	-30°C to 50°C
	Storage Temperature	-40°C to 70°C
	Relative Humidity	5%~95% RH, non-condensing
	Altitude	≤ 2000m(6561')
Regulations	Safety	UL2202, UL2231
	EMI/EMC	FCC CFR Title 47 Part 15 Subpart B: 2020 ANSI C63.4: 2014 ICES-003:2020 Issue 7

Mechanical Specifications	Dimensions (WxDxH)	700 x 550 x 1800 mm (27.56"x21.65"x70.87")
	Weight (typ.)	< 300 kg(661.39lb)
	DC output interface (The interface may be different depend on the connector.)	CCS1/CCS2, CHAdeMO
	Cooling	Liquid: Liquid cooling Natural: Forced air
	Ingression Protection	NEMA3R
	Anti-vandalism	IK10 (Excluding screen and RFID module)

2.2 DDWx362 Series Version Description

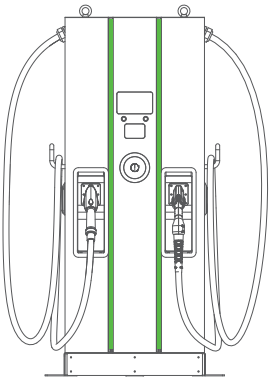
The DDWx362 Series are available in different versions depending on the charging connectors, below table shows the available combinations, the coresponding position of charging connectors are indicated from left to right when face to charger.

For example,

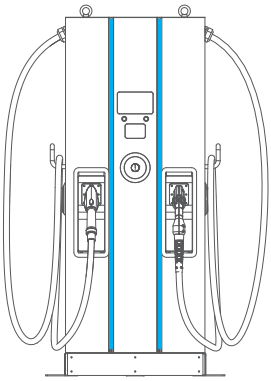
Version	CHAdeMO	CCS2 Liquid	CCS2 Natural	CCS1 Liquid	CCS1 Natural 200A	CCS1 Natural 300A
DDWx362 V0U				X	X	
DDWx362 V0T				X		X

U : Natural cooling CCS1 combo
V : Liquid cooling CCS1 combo
E : Natural cooling CCS2 combo
F : Liquid cooling CCS2 combo
G : GB/T DC
T : Rema CCS1 300A
D : Rema CCS2 300A
K : CHAdeMO 200A

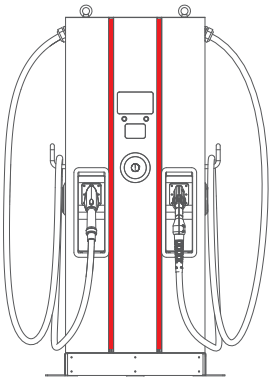
2.3 LED Indication and Operation Status



Standby



Charging



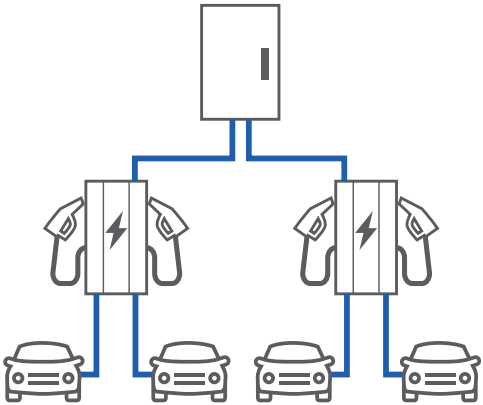
Abnormal

Status / LED	Left Indicator (DC1)	Right Indicator (DC2)
Standby	Green	Green
Charging	Blue	Blue
Abnormal	Red	Red

2.4 Dynamic Power Sharing info:

Dynamic Power Sharing (Four-Connector Model Only):

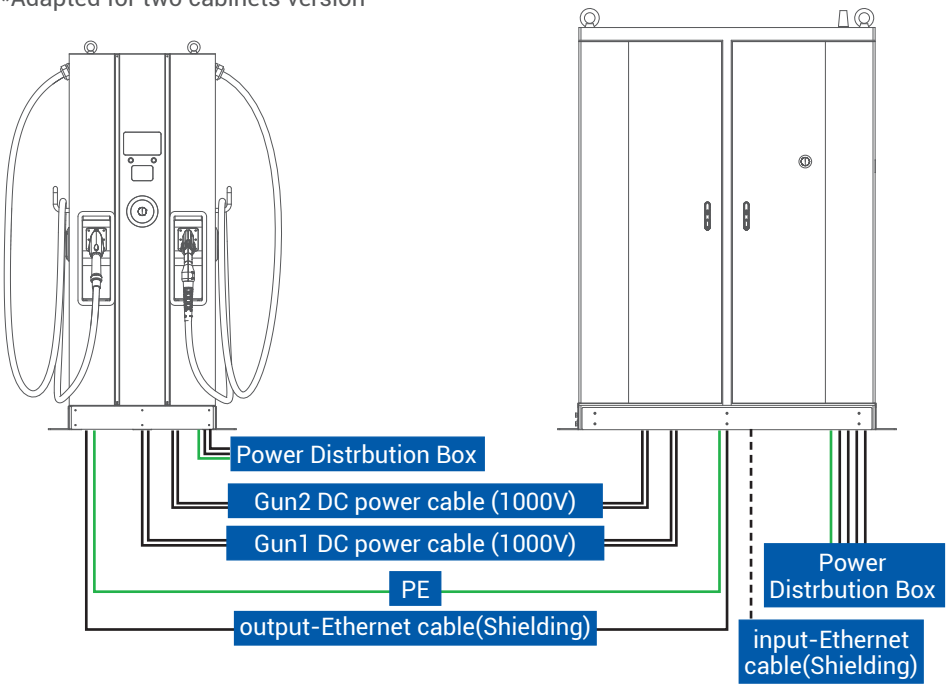
1. The connector will get fully 360KW (100%) output power when other three connectors finish the charging session or only this connector is plugged in.
2. Each connector will get 180KW (50%) output power when only two connectors are plugged in simultaneously in separate dispenser or the rest two connectors finish the charging session.
3. The connectors will get 90KW (25%) and 270KW (75%) output power when only two connectors are plugged in simultaneously in same dispenser or the rest two connectors finish the charging session.
4. The connectors will get 90KW (25%), 90KW (25%) and 180KW (50%) output power when three connectors are plugged in simultaneously or the fourth connector finishes the charging session.



1	360kW	X	X	X
2	90kW	270kW	X	X
3	180kW	X	180kW	X
4	90kW	90kW	180kW	X
5	90kW	90kW	90kW	90kW

Cable connection (TN system):

*Adapted for two cabinets version

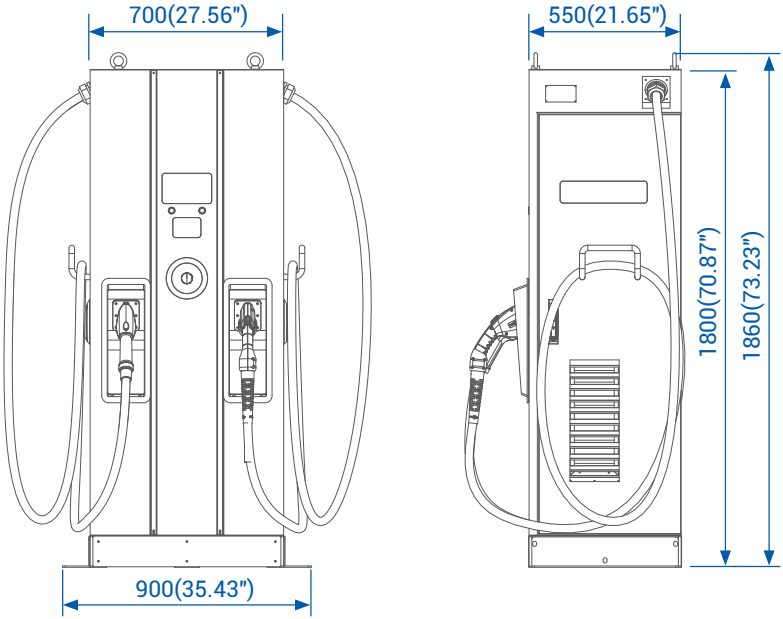


NOTE:

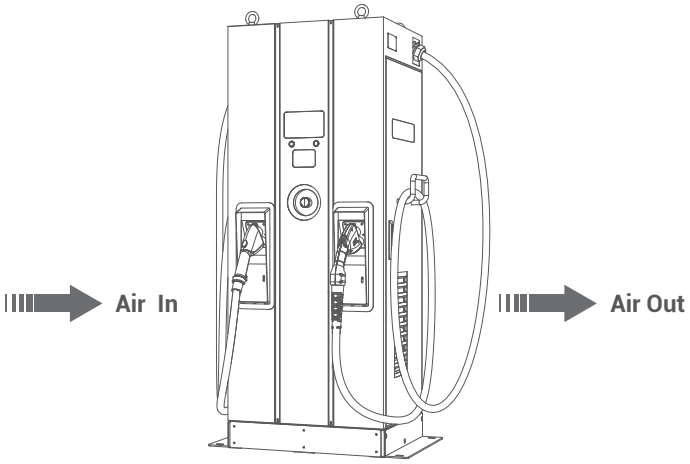
- The maximum DC voltage would be 950Vdc, the DC power cable be used should be able to withstand at least 1000V and required safe ampere capacity.
- Please note and confirm that all installation assemblies must comply with national safety standard and codes.
- The max. allowable distance between the power cabinet and the dispenser is 30m.
- The power cabinet and the distribution box are recommended to keep distance from the end users to have better operation experience.
- The similar design concept in appearance is recommended to the power cabinet and the distribution box.
- Must use the CAT6 SFTP cable 24AWG or 26AWG with CAT6A FTP RJ45 Plug or higher level cable/Plug increased shielding for ethernet contact.

2.5 Dimensions

Unit: mm(inch)



2.6 Direction of Cooling Airflow



The following signs are used on the equipment and in this manual:



DANGER
Hazardous voltage
Identifies a hazard that could result in severe injury or death through electrocution.



WARNING
Various
Identifies a hazard that could result in severe injury or death.



WARNING
Rotating parts
Identifies a hazard that could result in injury due to the presence of rotating or moving parts.



WARNING
Pinch Hazard
Identifies a hazard that could result in injuries in which some body parts are pinched or crushed.



CAUTION
Various
Identifies a hazard that could result in damage to the machine, other equipment, and/or environmental pollution.



NOTICE
Contains remarks, suggestions or advice.

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 has any damage.
- Do not use this product if the enclosure is broken, open or has other damage.
- Do not put tools, materials, fingers or other body parts into the charger or EV connector.



WARNING: The product should be installed only by licensed contractor, and/or licensed technician in accordance with all building code, 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 code and safety standard.

- The dispenser aux power can be connected to 1 phase among L1, L2 or L3 to Neutral.
- The capacity of power supply should be higher than 2.5kVA in order to have function correctly.
- The product should be installed in well ventilated area and need sufficient space for product installation and maintenance keep at least 100cm(39.37") clearance distance to the product.
- Do not twist, swing, bend, drop or crush the charging cable. Never drive over it with a vehicle.
- Make sure that minimum bending radius of charging cable is not exceed.
- With coolant inside; make sure the product not be over-tilt or turn back.



NOTICE

It is recommended to conduct Wi-Fi and 4G signal strength while charger installation. The RSSI (Received Signal Strength Indication) value is considered as good as higher than -65dBm. Poor connection quality might interrupt charging process or data transaction.

3.2 Grounding and Safety Requirements

- The product must be connected to a grounded, metal, permanent wiring system. Connections shall comply with all applicable electrical codes. Recommend ground resistance is less than 4 ohm.

- Ensure no power is connected at all time when installing and maintaining.
- 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 provided cable assembly for connection of the EV to the EVSE.

3.2.1 Service Wiring

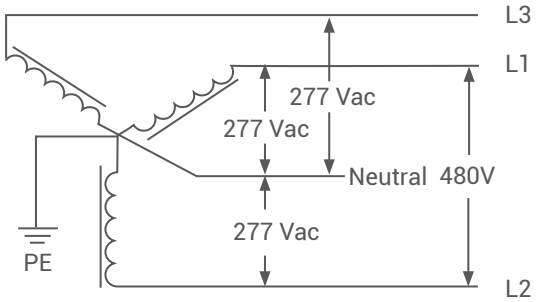
- Ground Connection

  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.

- 277 Vac Single Phase (L-N-PE)

CAUTION!

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



480V Three-Phase Wiring Connection

DANGERS

Be Aware of High Voltage!

WARNING!

Earth Connection is Essential!

3.3 Unpack the charger

- The product is Direct current (DC) charger, the packing design passed the packaging simulation test, if the packaging is damaged cause by overturning, falling or external impact during transportation, it may cause the product damage or defects. if there is any serious damage to the packaging when receiving the goods, please notify manufacturer about your findings.
- Receiving the DC 360kW Power cabinet. The product is delivered by a transport company to a warehouse or specified location where it will be handed over. Transporting the DC 360kW Power cabinet to its final location (last mile service) is not standard included in the order.

NOTICE: The delivery truck unloads the pallet carrying the DC 360KW Power Cabinet. The movement of the DC 360kW Power cabinet to its final location is the responsibility of the customer / contractor.



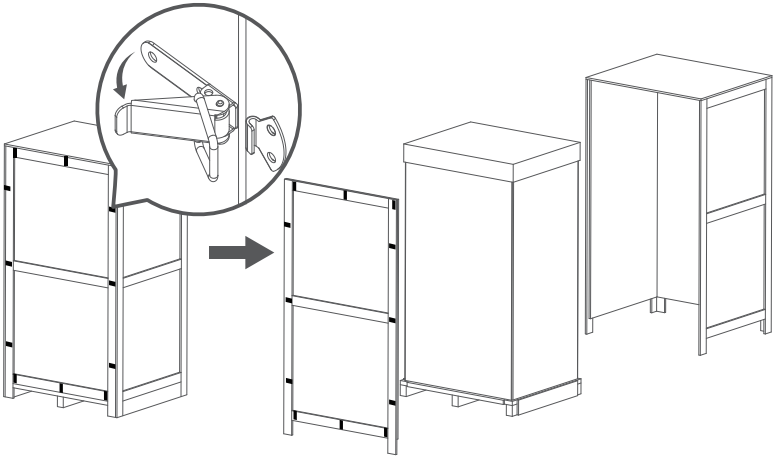
- Checking the TiltWatch PLUS sensors: If the TiltWatch PLUS indicator is tilted over 30°
  1. Do not refuse the delivery / receipt.
  2. Make a notation on the delivery receipt and inspect cabinet for damage.
  3. If damage is discovered, leave cabinet in original package and request immediate inspection from carrier within 3 days of delivery.
  4. Contact manufacturer by mail or phone to notify us about your findings



WARNING!
Charger weight with packing may > 300 kg(661.39lb)!
Be careful during unpack process.

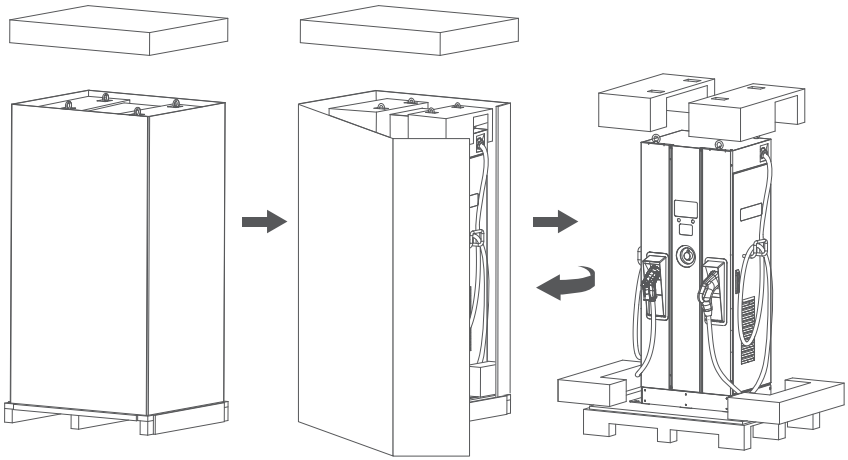
STEP 1.

Please disassemble the shipping crate as follows:



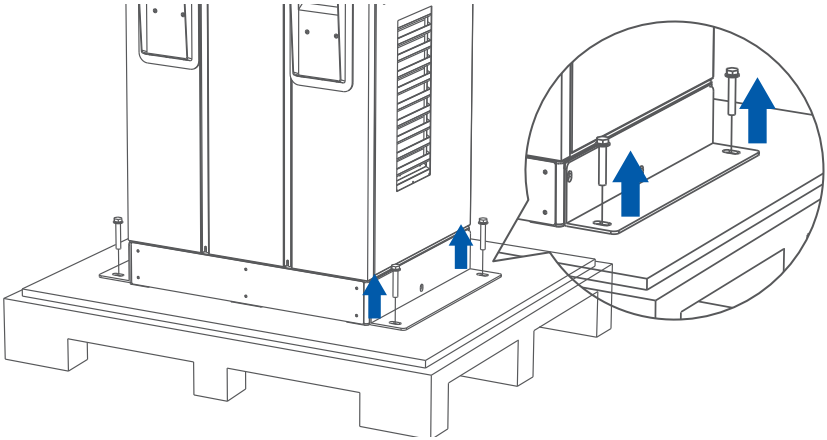
STEP 2.

Please remove the cardboard box and the protective internal packaging as follows:



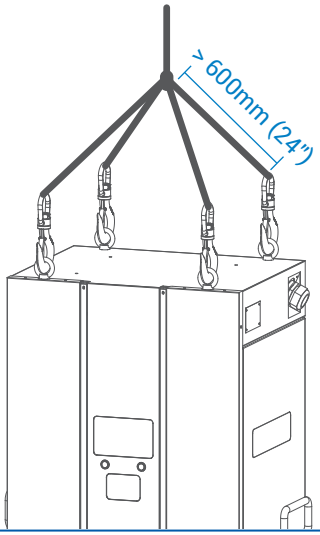
STEP 3.

Remove the 4 fixing screws.



STEP 4.

To use lifting eye bolts to move the EVSE, please apply 6mm (1/4 inches) diameter steel wire rope to the four eye bolts as following picture.
(Make sure to tighten the eye bolts before lifting.)



3.4 Recommended Tools for Installation and Inspection

3.4.1 Recommended Tools and assemblies for Installation

Type	Description
Philips Screwdriver	No. 2
Hexagon Screwdriver	M12,M16
Shifting Wrench	8" (24mm)
Electrical tape	Black/15mm (0.6") Width
AC Input Cable	2.5mm² or AWG12, Cable x 3 (L, N, PE) With Ring terminal for M5 screw (Inner diameter > 5mm (0.2"), Outer diameter < 12mm (0.47")) Recommend to use 600V, XLPE power cable
DC Input Cable	DC Output x2 (Gun1, Liquid cooling ; Gun2, Natural cooling)(The charging connectors installed on the EVSE may vary depending on the designated application.) ***Each connector is recommended to use below cable:*** Liquid 500A CCS1/CCS2-Conductor cross section: Option 1: Conductor cross section: 400 mm² (800MCM) at least, Cable x 2 (DC+ x1, DC- x1) Option 2: Conductor cross section: 125 mm² (250MCM) at least, Cable x 4 (DC+ x2, DC- x2) Natural Cooling 300A CCS1/CCS2- Conductor cross section: 150 mm² (300MCM) at least, Cable x 2 (DC+ x1, DC- x1) Natural Cooling 200A CCS1/CCS2, CHAdeMO 200A Conductor cross section: 125mm² (250MCM) at least, Cable x 2 (DC+x1 , DC- x1) With ring terminal for M16 screw (Inner diameter > 16mm (0.63"), Outer diameter < 40mm (1.57") ; Thick type) Recommend to use 1000V, 90°C (194 °F), XLPE, Pho-to-Voltaic or Hypalon power cable

	 Protective Earth conductor: Conductor cross section: 200mm² (400MCM) cable for TN system With ring terminal for M16 screw (Inner diameter > 16mm (0.63"), Outer diameter < 40mm (1.57") ; Thick type) (Conductor cross section: 200mm² (400MCM) round rod for TT system) * Suggest to use concrete culverts for underground cable layout due to 1000V application .
Ethernet cable	CAT6 SFTP cable 24AWG or 26 AWG x 2 for dispenser cabinet
Slotted Screwdriver	
Socket driver	
Forklift	
Wire Stripper	
Wire cutters	
Residual Current Device	30mA type A , 2 pole
No Fuse Breaker	Curve B (for capacitive load)

Please follow all local safety standards and electrical codes at all times, even if the actual installation process and procedures are varied to accommodate the existing site condition.

3.4.2 Recommended Tools for Inspection & Commissioning

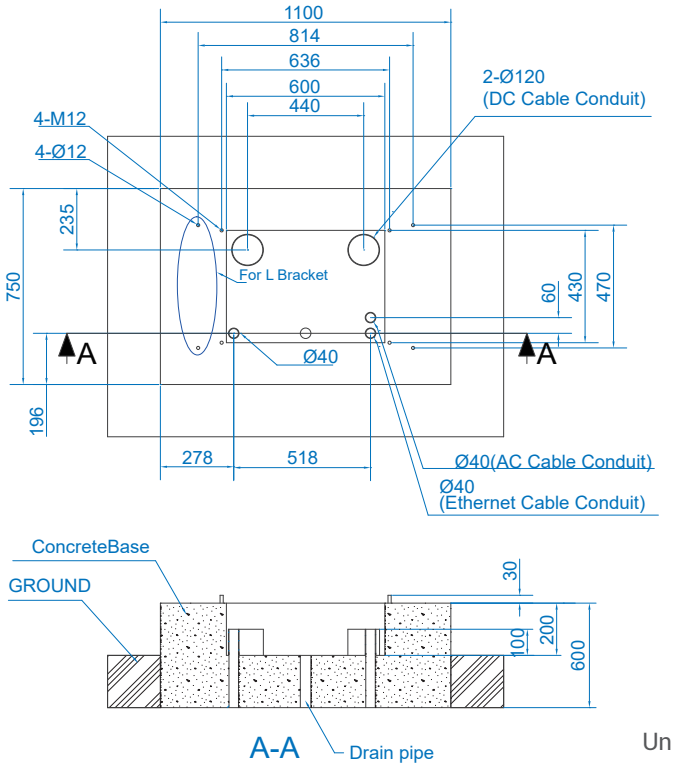
Type	Description
EV or EV Simulator	Meet CCS1, CCS2 & CHAdeMO standard
Multiple Meter	1000V
Current Probe	500A at least
RFID Authorized Card	
Door Key	
Needle-Nose Plier	
Torque Meter screwdriver	
Laptop & CAT 6 cable	
Wi-Fi, 3G/4G signal quality checker	Recommended

3.5 Installation Procedure

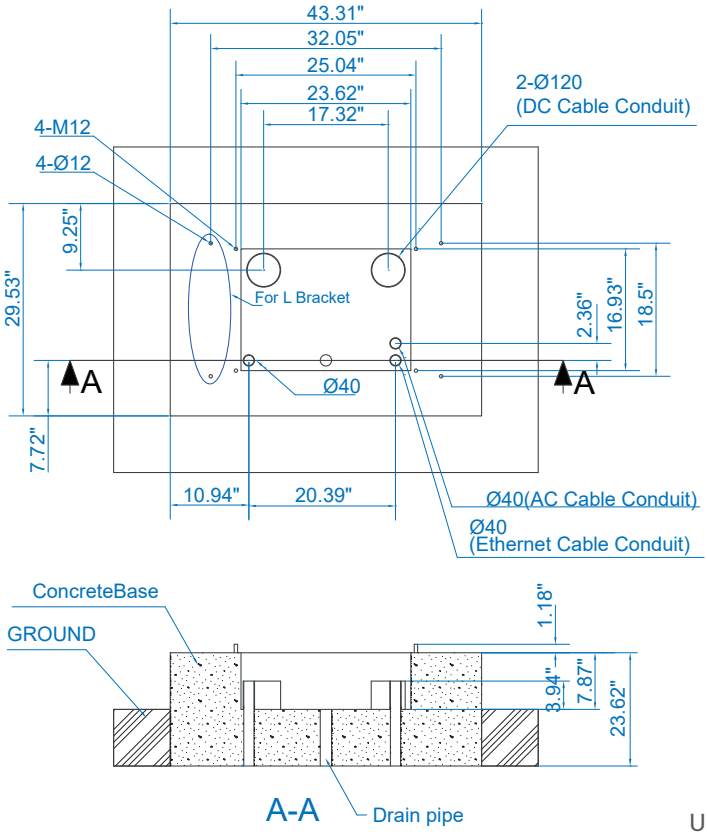
3.5.1 Build Concrete Base

STEP 1.

- Build 1100mm(43.31") x 750mm(29.53") x 200mm(7.87") concrete base in advance; Φ40mm conduit for input AC cable, Φ120mm conduit for input DC cable, Φ40mm for communication cable (Ethernet)and 1" drain pipe.
- Install the 4 pcs of M12 mounting anchor bolts and leave at least 40mm(1.57") thread length enough for 2 pcs of M12 nuts to be fasten on each after the unit has been fitted onto the base. The positioning of these 4 pcs of M12 screws should be within± 2mm in short axis, ± 14mm in long axis according to screw holes of charger. Add drain pipe at opening of concrete base to prevent standing water.
- Recommend to use a prefabricated steel mould for constructing the cement concrete base per dimensions provided below.

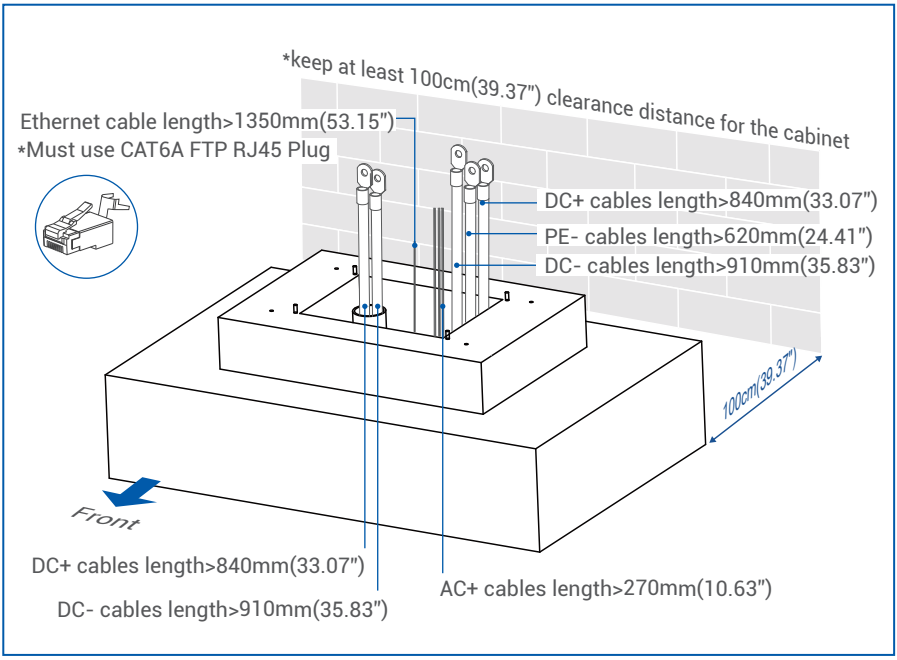


Unit:mm



STEP 2.

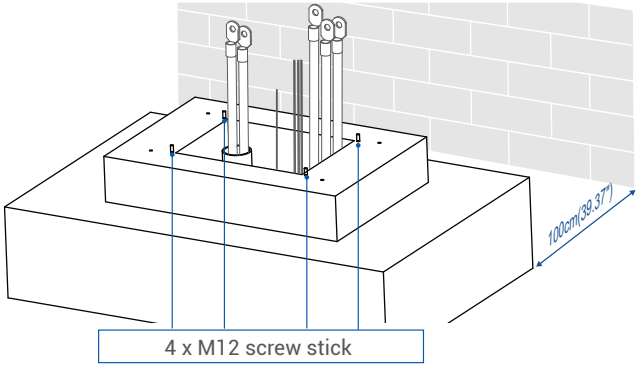
- Extend 1 phase 3 wires AC input cable from conduit of concrete base, AC cable expose at least 270mm(10.63") and be with ring terminals. The conductor cross sectional area of input power wires should be not less than 2.5mm² AWG12.
- Extend 2 sets DC power cable from conduit of concrete base, Gun1 DC+ cable expose at least 840mm(33.07"), DC- cable expose at least 910mm(35.83") ; Gun2 DC+ cable expose at least 840mm(33.07"), DC- cable expose at least 620mm (24.41")and be with ring terminals.
- Extend Ethernet cable from conduit of concrete base, expose at least 1350mm(53.15").



3.5.2. Two Methods of Fixing the Charger

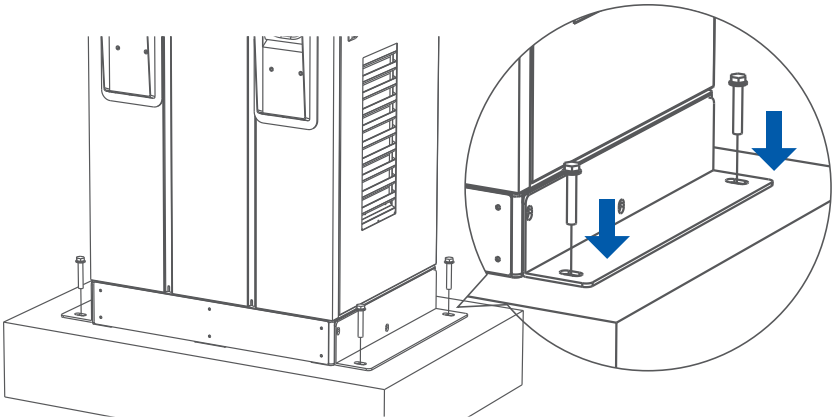
Method 1.

Fix the cabinet with internal screw.
Lift the charger onto the concrete base, feed all the cables through the entry hole located at the bottom of the unit; fasten the 8 pcs of M12 screw nuts on the 4 pcs of M12 mounting anchor bolt from the cement base (2 nuts for each bolt) to secure the chargers.



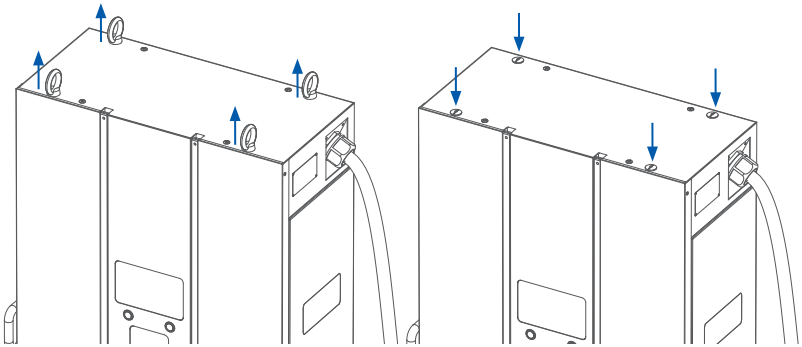
Method 2.

Fix the cabinet with external brackets and expansion bolts.
Lift the cabinet onto the concrete base, remove the cover metal sheet of the cabinet base, fix the L-shaped brackets on the cabinet base with the M12xL130 expansion screws (Material: Stainless steel), drill 4x Φ12mm screw holes on the concrete base, secure L- shaped brackets on the concrete base by 4 pcs M12 expansion bolts.



NOTE

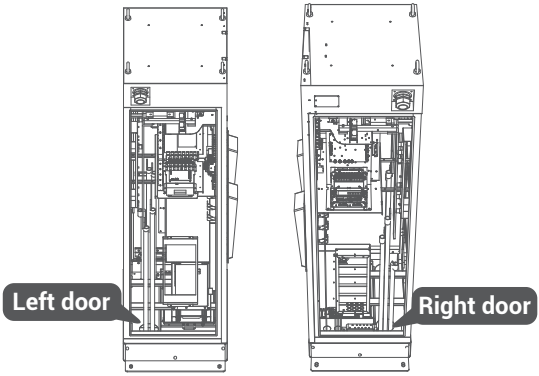
If remove the eye bolts on the top of the cabinet, must assemble the water-proof plastic bolts Inside (in the accessory pack).



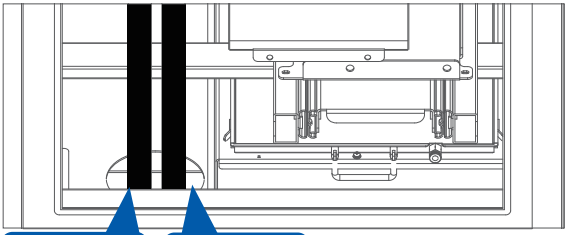
3.5.3 Installing Cables

STEP 1.

Fasten the PE cable (green with yellow) to grounding plate of cabinet; connect AC input Line cable(Brown), Neutral cable (Blue) and PE cable to terminal block. Fasten DC+ and DC- cables from power cabinet to paired busbar.



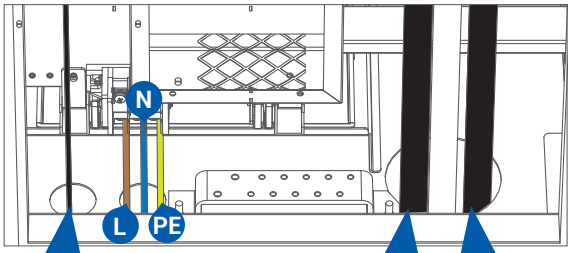
Left Door



*The charging connectors installed on the EVSE may vary depending on the designated application.

Right Door

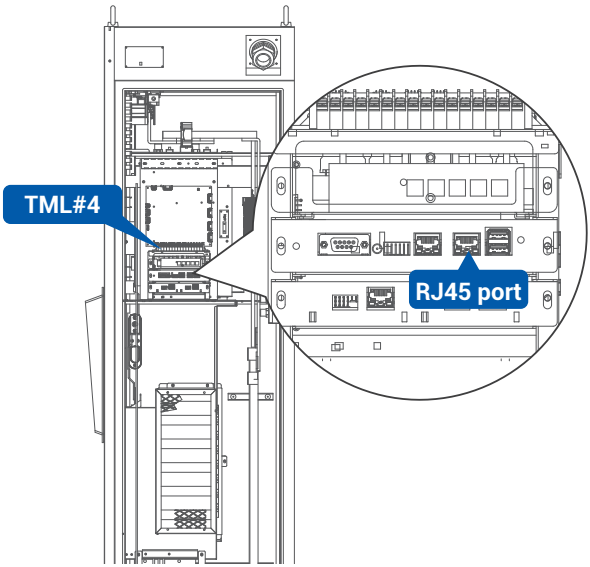
* L – Brown
* Neutral – Blue
* PE – Green with Yellow



*The charging connectors installed on the EVSE may vary depending on the designated application.

STEP 2.

Connect Ethernet cable to RJ45 port of CSU.



STEP 3.

Connect 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.

STEP 4.

Use adaptive flame retardants and electrical insulated foaming agent and far from conductive live part at least 12mm AWG 6 or other method to seal the cable entry hole to assure the NEMA3R grade of the cabinet, and prevent insects enter the cabinet.

* A 20A NFB for capacitve load and 30mA RCD type A is recommended to use on power distribution box.

3.6 Installation Inspection & Commissioning

3.6.1 Environmental Check

Item	Status	Remark
Ambient temperature		
Ambient humidity		
Sunshade		Recommended but not required
Rain canopy		Recommended for better charging experience and maintenance on rainy day
Air circulation / Drafty		
Dust level		
Anti-vandalism measures		National regulations
Flood measures		
Car bumper or bollard		
Anti-vandalism measures		

3.6.2 External Infrastructure Readiness & Check

Item	Status	Remark
Cement (stand) Base		
Input Wirings & Terminals		Type/ Length/cross section
Key & Lock of Cabinet Door		Type /No.
Fixing Screws		30mA type A , 2 pole
No Fuse Breaker		20A, for capacitive load
Grounding Resistance		<4Ω
Network Connection & Quality		Wi-Fi , 3G/4G > -65dBm

3.6.3 EVSE Check – Prior to installation/ energization

Item	Status	Remark
Outlook		
Labeling & Warning Signs		
Package (Accessory) List		
Inner Wiring & Connection		See screw torque table page5
Robustness of Input Wirings		1. AC power cables

		2. RJ45 connector
Robustness of Output Wirings		DC power cables
Coolant		Level & No leakage
Dispense Cabinet ID		1 for single or left cabinet, 2 for right cabinet

3.6.4 EVSE Check - Power On

Item	Status	Remark
Screen Display		
Network Connection Quality		
LED Status Indication		
Cooling Fans Operation		
EVSE Setting		
Backend Server Connection		
Network Connection & Quality		Wi-Fi , 3G/4G > -65dBm

3.6.5 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		
Airflow & Cooling Fan & cooling unit of charging gun		

3.6.6 Emergency Stop Check

Item	Status	Remark
Emergency Stop Button		

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

4. Operation Process

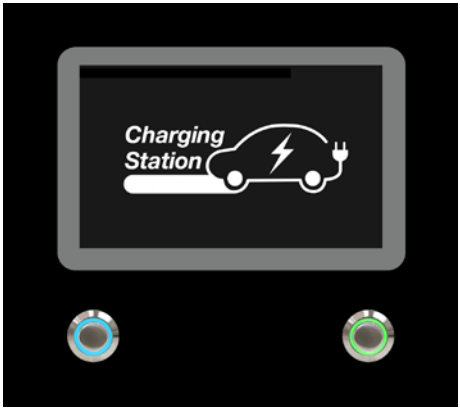
4.1 Operating Sequence

- System Initialization
- User Authorization
- Plug in DC Charging Connector
- Preparing for Charging
- In Charging
- Charging Terminated
- Status Messages

4.2 Operating Procedure

4.2.1 System Initialization

- When the charger is powered on, it start with the “Charging Station” Initializing page.
- You will see the below image on the screen after powering on and the system is initializing.
- The initializing process will take around 2 minutes, then shows home page.



Initializing page



Home page

Unit and currency if billing function is enabled

- Ethernet Backend Status

Connection Dis-Connection

- Wi-Fi Status

Connection Dis-Connection

- 3G/4G Status

Connection Dis-Connection

- OCPP Backend Status

Connection Dis-Connection

4.2.2 User Authorization

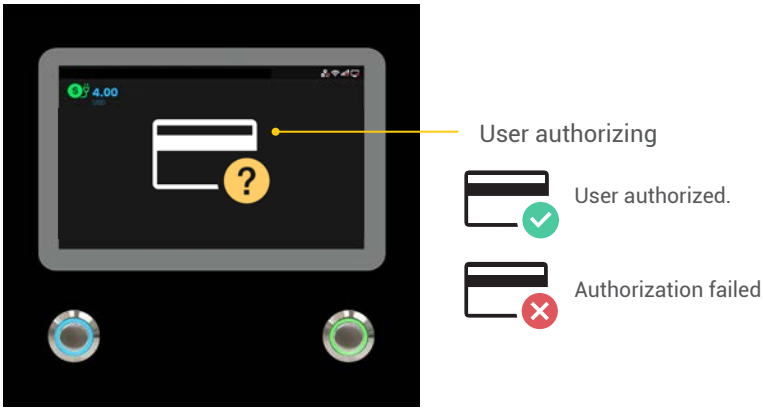
- After the system is initialized the screen will stay at Home page as below illustrated.
- Use your RFID card or mobile app to authorize the use of the EVSE.



Home page

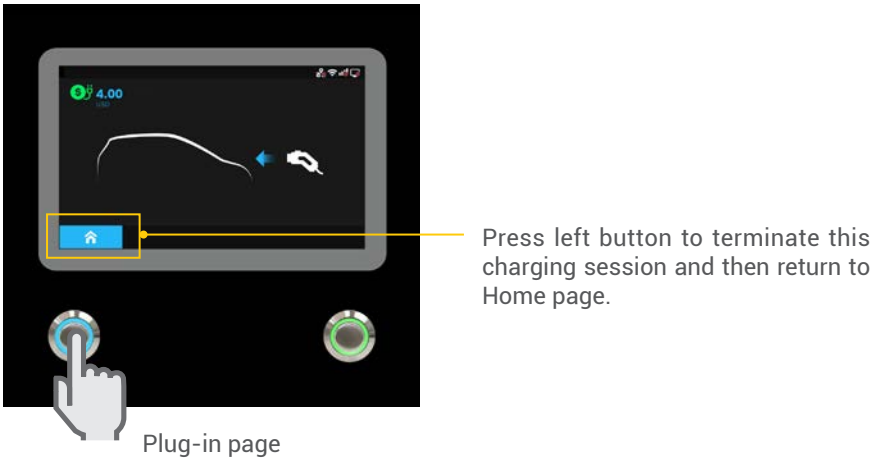
User authorization Method: RFID, QR code and mobile APP.

- Unauthorized method(s) will be darker on the screen if the method is disable.



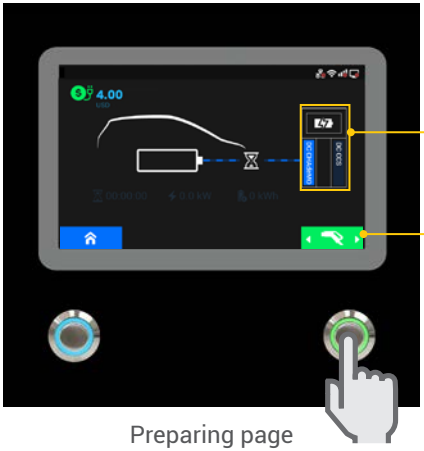
4.2.3 Plug in Charging Connector

- After authorization the screen will ask the user to plug the charging connector into the EV charging inlet as below illustrated.
- Take the Charging connector from the charging cable holder and plug the connector into EV charging inlet. The charger will automatically detect the type of the charging connector.
- It will normally take less than 10 seconds to start the process after completing the physical connection of charging connector to charging inlet. To terminate this session, please press the left button to return to the Home page



4.2.4 Prepare for Charging

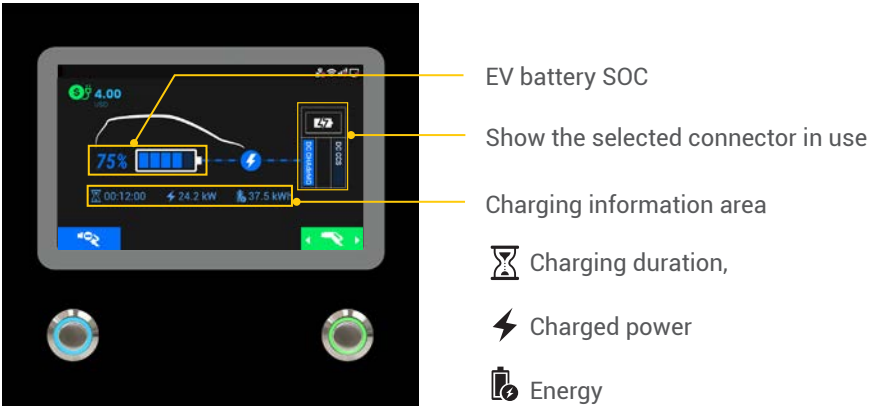
- After authorization and plug-in process, the charger will start communicating with the vehicle and the screen will show the Preparing page as below illustrated.



Preparing page

4.2.5 In Charging

- The screen will show the Charging Page as below illustrated once the charger goes into the ready to charge stage.



Charging page

- To start charging, load the charging information. When the battery has been fully charged or reaches the limit of the setting it will stop charging automatically and go to the next process.



Press right button to select the charger connector that the user would like to stop.

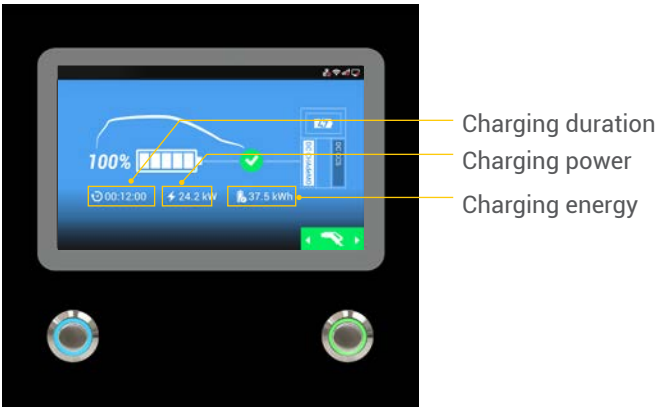
- User also can tap the RFID to stop charging.



Tap RFID card or push stop button to stop

4.2.6 Charging Terminated

- After charging is terminated the charger system will show the Charging Summary page as below illustrated and the charging connector will automatically unlock.
- Unplug the charging connector from charging inlet of the EV and return the charging connector to charging cable holder.
- The screen will go back to the Home Page or the other charging connector's Charging Page if unplugged from the charging connector.
- During simultaneous charging the screen will go to the other charging connector's Charging Page if either charging connector is unplugged.



Charging summary page

4.2.7 Status Messages



4.3 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.

4.4 Status Codes

(V0.37)

Status Code	Description
011001	CHAdeMO output fuse blew
011002	CCS output fuse blew
011003	GB output fuse blew
011004	RCD/CCID self-test fail
011005	AC input contactor 1 welding
011006	AC input contactor 1 driving fault
011007	AC input contactor 2 welding
011008	AC input contactor 2 driving fault
011009	AC output relay welding
011010	AC output relay driving fault
011011	CHAdeMO output relay welding
011012	CHAdeMO output relay driving fault
011013	CCS output relay welding
011014	CCS output relay driving fault
011015	GB output relay welding
011016	GB output relay driving fault
011017	AC connector temperature sensor broken
011018	CHAdeMO connector temperature sensor broken
011019	CCS connector temperature sensor broken
011020	GB connector temperature sensor broken
011021	WiFi module broken
011022	3G/4G module broken

Status Code	Description
011023	Aux. power module broken
011024	Relay control module /smart box broken
011025	CHAdeMO connector lock fail
011026	GB connector lock fail
011027	AC connector lock fail
011028	CHAdeMO module broken
011029	CCS module broken
011030	GBT module broken
011031	PSU module broken
011032	RCD/CCID module broken
011033	Maximum Output Current setup error
011034	Shutter fault
011035	Ble module broken
011036	Rotary switch fault
011037	CCS liquid chiller water level fault
011038	Reserved
011039	Reserved
011040	Reserved
012200	System L1 input OVP
012201	System L2 input OVP
012202	System L3 input OVP
012203	System L1 input UVP
012204	System L2 input UVP
012205	System L3 input UVP
012206	PSU L1 input OVP
012207	PSU L2 input OVP
012208	PSU L3 input OVP
012209	PSU L1 input UVP
012210	PSU L2 input UVP
012211	PSU L3 input UVP
012212	System L1 input drop
012213	System L2 input drop

Status Code	Description
012214	System L3 input drop
012215	System AC output OVP
012216	System AC L1 output OCP
012217	System CHAdeMO output OVP
012218	System CHAdeMO output OCP
012219	System CCS output OVP
012220	System CCS output OCP
012221	System GB output OVP
012222	System GB output OCP
012223	System ambient/inlet OTP
012224	System critical point OTP
012225	PSU ambient/inlet OTP
012226	PSU critical point OTP
012227	Aux. power module OTP
012228	Relay board/smart box OTP
012229	CHAdeMO connector OTP
012230	CCS connector OTP
012231	GB connector OTP
012232	AC connector OTP
012233	RCD/CCID trip
012234	CHAdeMO GFD trip
012235	CCS GFD trip
012236	GB GFD trip
012237	SPD trip
012238	Main power breaker trip
012239	Aux. power breaker trip
012240	PSU communication fail
012241	WiFi module communication fail
012242	3G/4G module communication fail
012243	RFID module communication fail
012244	Bluetooth module communication fail
012245	LCM module communication fail

Status Code	Description
012246	Aux. power module communication fail
012247	Relay control boaed/smart box communication fail
012248	CCS module communication fail
012249	CHAdeMO module communication fail
012250	GBT module communication fail
012251	Emergency stop
012252	Door open
012253	System fan decay
012254	Fail to create share memory
012255	CSU initialization failed
012256	AC Ground Fault
012257	MCU self-test Fault
012258	Relay self-test Fault
012259	CHAdeMO groundfault detection timeout (GFD)
012260	CCS groundfault detection timeout (GFD)
012261	GB groundfault detection timeout (GFD)
012262	System AC L1 output Circuit Short
012263	PSU Duplicate ID
012264	PSU Output Short Circuit
012265	PSU Discharge Abnormal
012266	PSU Dc Side ShutDown
012267	PSU Failure Alarm
012268	PSU Protection Alarm
012269	PSU FanFailure Alarm
012270	PSU Input UVP
012271	PSU Input OVP
012272	PSU WalkIn State
012273	PSU Power Limited State
012274	PSU Id Repeat
012275	PSU Severe Uneven Current
012276	PSU Three Phase Input Inadequate
012277	PSU Three Phase Onput Imbalance

Status Code	Description
012278	PSU Ffc Side ShutDown
012279	NO PSU Resource
012280	Self test Failed due to communication of Relayboard failure
012281	Self test Failed due to communication of Fanboard failure
012282	Self test Failed due to communication of Primary failure
012283	Self test Failed due to communication of Chademoboard failure
012284	Self test Failed due to communication of CCSboard failure
012285	Self test Failed due to AC Contact failure
012286	Self test Failed due to communication of PSU failure
012287	Self test Failed due to Model name is none match
012288	CCS output UVP
012289	Chademo output UVP
012290	GBT output UVP
012291	Self test Failed due to communication of GBTboard failure
012292	Self test Failed due to communication of AC failure
012293	Self test Failed due to communication of Ledboard failure
012294	AC input ovp
012295	AC input uvp
012296	CHAdeMO groundfault detection - warning
012297	CCS groundfault detection - warning
012298	GB groundfault detection - warning
012299	System AC L2 output OCP
012300	System AC L3 output OCP
012301	System AC L2 output Circuit Short
012302	System AC L3 output Circuit Short
012303	CCS liquid chiller water level warning
012304	disconnected from power cabinet
012305	Meter communication timeout
012306	The dip switch of the PSU may be incorrect
012307	Psu Fuse Burn-Out
012308	Psu Pfc And Dcdc Communication Fault
012309	Psu Bus Voltage Unbalance

Status Code	Description
012310	Psu Bus Over Voltage
012311	Psu Bus Voltage Abnormal
012312	Psu Bus Under Voltage
012313	Psu Input Phase Loss
012314	Psu Fan Full Speed
012315	Psu Temperature Power Limit
012316	Psu Ac Power Limit
012317	Psu Dcdc Eeprom Fault
012318	Psu Pfc Eeprom Fault
012319	Psu Dcdc Over Voltage
012320	System CHAdeMO output UCP
012321	System CCS output UCP
012322	System GBT output UCP
012323	System Chiller output OTP
012324	Connector 1 detects abnormal voltage on the output line
012325	Connector 2 detects abnormal voltage on the output line
012326	System task is lost
012327	Reserved
012344	Meter IC communication timeout
012345	Pilot negative error
013600	Normal stop charging by user
013601	Charging Time's up
013602	Replace system air filter
013603	Reach to CHAdeMO max. plugging times.
013604	Reach to CCS max. plugging times.
013605	Reach to GB max. plugging times.
013606	Reach to AC max. plugging times.
013607	CSU fimrware update fail
013608	CHAdeMO Module fimrware update fail
013609	CCS Module fimrware update fail
013610	GB Module fimrware update fail
013611	Aux. power module fimrware update fail

Status Code	Description
013612	Relay control module fimrware update fail
013613	LCM module fimrware update fail
013614	Bluetooth module fimrware update fail
013615	WiFi module fimrware update fail
013616	3G/4G module fimrware update fail
013617	SMR fimrware update fail
013618	RFID module fimrware update fail
013619	configured by USB flash drive
013620	configured by backend
013621	configured by webage
013622	disconnected from Internet through Ethernet
013623	disconnected from Internet through WiFi
013624	disconnected from Internet through 3G/4G
013625	disconnected from AP through WiFi
013626	disconnected from APN through 3G/4G
013627	WiFi disabled (separated charger only)
013628	4G disabled (separated charger only)
013629	Reserved
013630	Reserved
013631	Reserved
023700	CHAdeMO EV communication Fail
023701	CCS EV communication Fail
023702	GB EV communication Fail
023703	AC: pilot fault
023704	CHAdeMO: battery malfunction
023705	CHAdeMO: no charging permission
023706	CHAdeMO: battery incompatibility
023707	CHAdeMO: battery OVP
023708	CHAdeMO: battery UVP
023709	CHAdeMO: battery OTP
023710	CHAdeMO: battery current difference
023711	CHAdeMO: battery voltage difference

Status Code	Description
023712	CHAdeMO: shift position
023713	CHAdeMO: battery other fault
023714	CHAdeMO: charging system error
023715	CHAdeMO: ev normal stop
023716	CHAdeMO: connector temperature sensor broken
023717	CHAdeMO: connector lock fail
023718	CHAdeMO: d1 on no receive
023719	CHAdeMO: bms k to j on timeout
023720	CHAdeMO: bms charge allow timeout
023721	CHAdeMO: wait groundfault timeout
023722	CHAdeMO: bms ev relay on timeout
023723	CHAdeMO: bms req current timeout
023724	CHAdeMO: bms k to j off timeout
023725	CHAdeMO: bms ev relay off timeout
023726	CHAdeMO: adc more than 10v
023727	CHAdeMO: adc more than 20v
023728	CHAdeMO: bms charge before stop
023729	CHAdeMO: charger get normal stop cmd
023730	CHAdeMO: charger get emergency stop cmd
023731	CHAdeMO: isolation result fail
023732	CHAdeMO: mother board miss link
023733	CHAdeMO: output voltage more than limit
023734	CHAdeMO: req current more than limit
023735	CHAdeMO: re capability bms eqr current exceed
023736	CHAdeMO: charge remaining count done
023737	CCS_EVCC_EVErrorCode_FAILED_RESSTemperatureInhibit
023738	CCS_EVCC_EVErrorCode_FAILED_EVShiftPosition
023739	CCS_EVCC_EVErrorCode_FAILED_ChargerConnectorLockFault
023740	CCS_EVCC_EVErrorCode_FAILED_EVRESSMalfunction
023741	CCS_EVCC_EVErrorCode_FAILED_ChargingCurrentdifferential
023742	CCS_EVCC_EVErrorCode_FAILED_ChargingVoltageOutOfRange
023743	CCS_EVCC_EVErrorCode_FAILED_ChargingSystemIncompatibility

Status Code	Description
023744	CCS_EVCC_EVErrorCode_FAILED_EmergencyEvent
023745	CCS_EVCC_EVErrorCode_FAILED_Breaker
023746	CCS_EVCC_EVErrorCode_FAILED_NoData
023747	CCS_EVCC_EVErrorCode_FAILED_reserved_by_DIN_A
023748	CCS_EVCC_EVErrorCode_FAILED_reserved_by_DIN_B
023749	CCS_EVCC_EVErrorCode_FAILED_reserved_by_DIN_C
023750	CCS_EVCC_EVErrorCode_FAILED_reserved_by_ISO_1
023751	CCS_EVCC_EVErrorCode_FAILED_reserved_by_ISO_2
023752	CCS_EVCC_EVErrorCode_FAILED_reserved_by_ISO_3
023753	CCS_EVCC_EVErrorCode_FAILED_reserved_by_OEM_1
023754	CCS_EVCC_EVErrorCode_FAILED_reserved_by_OEM_2
023755	CCS_EVCC_EVErrorCode_FAILED_reserved_by_OEM_3
023756	CCS_EVCC_EVErrorCode_FAILED_reserved_by_OEM_4
023757	CCS_EVCC_EVErrorCode_FAILED_reserved_by_OEM_5
023758	CCS_SECC_ResponseCode_FAILED_SequenceError
023759	CCS_SECC_ResponseCode_FAILED_SignatureError
023760	CCS_SECC_ResponseCode_FAILED_UnknownSession
023761	CCS_SECC_ResponseCode_FAILED_ServiceIDInvalid
023762	CCS_SECC_ResponseCode_FAILED_Payment SelectionInvalid
023763	CCS_SECC_ResponseCode_FAILED_IdentificationSelectionInvalid
023764	CCS_SECC_ResponseCode_FAILED_ServiceSelectionInvalid
023765	CCS_SECC_ResponseCode_FAILED_CertificateExpired
023766	CCS_SECC_ResponseCode_FAILED_CertificateNotYetValid
023767	CCS_SECC_ResponseCode_FAILED_CertificateRevoked
023768	CCS_SECC_ResponseCode_FAILED_NoCertificateAvailable
023769	CCS_SECC_ResponseCode_FAILED_CertChainError
023770	CCS_SECC_ResponseCode_FAILED_CertValidationError
023771	CCS_SECC_ResponseCode_FAILED_CertVerificationError
023772	CCS_SECC_ResponseCode_FAILED_ContractCanceled
023773	CCS_SECC_ResponseCode_FAILED_ChallengeInvalid
023774	CCS_SECC_ResponseCode_FAILED_WrongEnergyTransferMode
023775	CCS_SECC_ResponseCode_FAILED_WrongChargeParameter

Status Code	Description
023776	CCS_SECC_ResponseCode_FAILED_ChargingProfileInvalid
023777	CCS_SECC_ResponseCode_FAILED_TariffSelectionInvalid
023778	CCS_SECC_ResponseCode_FAILED_EVSEPresentVoltageToLow
023779	CCS_SECC_ResponseCode_FAILED_PowerDeliveryNotApplied
023780	CCS_SECC_ResponseCode_FAILED_MeteringSignatureNotValid
023781	CCS_SECC_ResponseCode_FAILED_NoChargeServiceSelected
023782	CCS_SECC_ResponseCode_FAILED_ContactorError
023783	CCS_SECC_ResponseCode_FAILED_ CertificateNotAllowedAtThisEVSE
023784	CCS_SECC_ResponseCode_FAILED_GAChargeStop
023785	CCS_SECC_ResponseCode_FAILED_AlignmentError
023786	CCS_SECC_ResponseCode_FAILED_ACDError
023787	CCS_SECC_ResponseCode_FAILED_AssociationError
023788	CCS_SECC_ResponseCode_FAILED_EVSEChargeAbort
023789	CCS_SECC_ResponseCode_FAILED_NoSupportedApp-Protocol
023790	CCS_SECC_ResponseCode_FAILED_ContractNotAccepted
023791	CCS_SECC_ResponseCode_FAILED_MOUnknown
023792	CCS_SECC_ResponseCode_FAILED_OEM_Prov_CertificateRevoke
023793	CCS_SECC_ResponseCode_FAILED_OEM_SubCA1_ CertificateRevoked
023794	CCS_SECC_ResponseCode_FAILED_OEM_SubCA2_ CertificateRevoked
023795	CCS_SECC_ResponseCode_FAILED_OEM_RootCA_ CertificateRevoked
023796	CCS_SECC_ResponseCode_FAILED_MO_Prov_CertificateRevoked
023797	CCS_SECC_ResponseCode_FAILED_MO_SubCA1_ CertificateRevoked
023798	CCS_SECC_ResponseCode_FAILED_MO_SubCA2_ CertificateRevoked
023799	CCS_SECC_ResponseCode_FAILED_MO_RootCA_ CertificateRevoked
023800	CCS_SECC_ResponseCode_FAILED_CPS_Prov_CertificateRevoked

Status Code	Description
023801	CCS_SECC_ResponseCode_FAILED_CPS_SubCA1_ CertificateRevoked
023802	CCS_SECC_ResponseCode_FAILED_CPS_SubCA2_ CertificateRevoked
023803	CCS_SECC_ResponseCode_FAILED_CPS_RootCA_ CertificateRevoked
023804	CCS_SECC_ResponseCode_FAILED_reserved_1
023805	CCS_SECC_ResponseCode_FAILED_reserved_2
023806	CCS_SECC_ResponseCode_FAILED_reserved_3
023807	CCS_SECC_ResponseCode_FAILED_reserved_4
023808	CCS_SECC_ResponseCode_FAILED_reserved_5
023809	CCS_SECC_TIMEOUT_SLAC_TT_EVSE_SLAC_init
023810	CCS_SECC_TIMEOUT_SLAC_TP_match_response
023811	CCS_SECC_TIMEOUT_CM_START_ATTEN_CHAR_IND
023812	CCS_SECC_TIMEOUT_SLAC_TT_EVSE_match_MNBC
023813	CCS_SECC_TIMEOUT_SLAC_TP_EVSE_avg_atten_calc
023814	CCS_SECC_TIMEOUT_SLAC_CM_ATTEN_CHAR_RSP
023815	CCS_SECC_TIMEOUT_SLAC_CM_VALIDATE_REQ_1ST__CM_SLAC_ MATCH_REQ
023816	CCS_SECC_TIMEOUT_SLAC_TT_EVSE_assoc_session
023817	CCS_SECC_TIMEOUT_SLAC_TT_EVSE_vald_toggle
023818	CCS_SECC_TIMEOUT_SLAC_CM_MNBC_SOUND_IND
023819	CCS_SECC_TIMEOUT_SLAC_CM_VALIDATE_REQ_2ND__CM_SLAC_ MATCH_REQ
023820	CCS_SECC_TIMEOUT_SLAC_reserved_3
023821	CCS_SECC_TIMEOUT_SLAC_reserved_4
023822	CCS_SECC_TIMEOUT_SLAC_reserved_5
023823	CCS_SECC_TIMEOUT_SLACC_SDP_UDP_TT_match_join
023824	CCS_SECC_TIMEOUT_SLACC_SDP_TCP_TT_match_join
023825	CCS_SECC_TIMEOUT_SLACC_SDP_TP_amp_map_exchange
023826	CCS_SECC_TIMEOUT_SLACC_SDP_TP_link_ready_notification
023827	CCS_SECC_TIMEOUT_SLACC_SDP_reserved_1
023828	CCS_SECC_TIMEOUT_SLACC_SDP_reserved_2

Status Code	Description
023829	CCS_SECC_TIMEOUT_SLACC_SDP_reserved_3
023830	CCS_SECC_TIMEOUT_SLACC_SDP_reserved_4
023831	CCS_SECC_TIMEOUT_SLACC_SDP_reserved_5
023832	CCS_SECC_TIMEOUT_V2G_Msg_Performance_Time_ SupportedAppProtocolRes
023833	CCS_SECC_TIMEOUT_V2G_Msg_Performance_Time_ SessionSetupRes
023834	CCS_SECC_TIMEOUT_V2G_Msg_Performance_Time_ ServiceDiscoveryRes
023835	CCS_SECC_TIMEOUT_V2G_Msg_Performance_Time_ ServicePaymentSelectionRes
023836	CCS_SECC_TIMEOUT_V2G_Msg_Performance_Time_ ContractAuthenticationRes
023837	CCS_SECC_TIMEOUT_V2G_Msg_Performance_Time_ ChargeParameterDiscoveryRes
023838	CCS_SECC_TIMEOUT_V2G_Msg_Performance_Time_ PowerDeliveryRes
023839	CCS_SECC_TIMEOUT_V2G_Msg_Performance_Time_ CableCheckRes
023840	CCS_SECC_TIMEOUT_V2G_Msg_Performance_Time_PreChargeRes
023841	CCS_SECC_TIMEOUT_V2G_Msg_Performance_Time_ CurrentDemandRes
023842	CCS_SECC_TIMEOUT_V2G_Msg_Performance_Time_ WeldingDetectionRes
023843	CCS_SECC_TIMEOUT_V2G_Msg_Performance_Time_ SessionStopRes
023844	CCS_SECC_TIMEOUT_V2G_Sequence_Time
023845	CCS_SECC_TIMEOUT_V2G_ReadyToCharge_Performance_Time
023846	CCS_SECC_TIMEOUT_V2G_CommunicationSetup_Performance_ Time
023847	CCS_SECC_TIMEOUT_V2G_CableCheck_Performance_Time
023848	CCS_SECC_TIMEOUT_V2G_CPState_Detection_Time
023849	CCS_SECC_TIMEOUT_V2G_CPOscillator_Retain_Time
023850	CCS_SECC_TIMEOUT_V2G_PreCharge_Performace_Time

Status Code	Description
023851	CCS_SECC_TIMEOUT_V2G_reserved_2
023852	CCS_SECC_TIMEOUT_V2G_reserved_3
023853	CCS_SECC_TIMEOUT_V2G_reserved_4
023854	CCS_SECC_TIMEOUT_V2G_reserved_5
023855	CCS_CAN_TIMEOUT_TP_GET_EV_TARGET_INFO
023856	CCS_CAN_TIMEOUT_TT_GET_EV_TARGET_INFO
023857	CCS_CAN_TIMEOUT_TP_GET_EV_BATTERY_INFO
023858	CCS_CAN_TIMEOUT_TT_GET_EV_BATTERY_INFO
023859	CCS_CAN_TIMEOUT_TP_EV_STOP_EVENT
023860	CCS_CAN_TIMEOUT_TT_EV_STOP_EVENT
023861	CCS_CAN_TIMEOUT_TP_EVSE_STOP_EVENT
023862	CCS_CAN_TIMEOUT_TT_EVSE_STOP_EVENT
023863	CCS_CAN_TIMEOUT_TP_GET_MISC_INFO
023864	CCS_CAN_TIMEOUT_TT_GET_MISC_INFO
023865	CCS_CAN_TIMEOUT_TP_DOWNLOAD_REQUEST
023866	CCS_CAN_TIMEOUT_TT_DOWNLOAD_REQUEST
023867	CCS_CAN_TIMEOUT_TP_START_BLOCK_TRANSFER
023868	CCS_CAN_TIMEOUT_TT_START_BLOCK_TRANSFER
023869	CCS_CAN_TIMEOUT_TP_DATA_TRANSFER
023870	CCS_CAN_TIMEOUT_TT_DATA_TRANSFER
023871	CCS_CAN_TIMEOUT_TP_DOWNLOAD_FINISH
023872	CCS_CAN_TIMEOUT_TT_DOWNLOAD_FINISH
023873	CCS_CAN_TIMEOUT_TP_ISOLATION_STATUS
023874	CCS_CAN_TIMEOUT_TT_ISOLATION_STATUS
023875	CCS_CAN_TIMEOUT_TP_CONNECTOR_INFO
023876	CCS_CAN_TIMEOUT_TT_CONNECTOR_INFO
023877	CCS_CAN_TIMEOUT_TT_RTC_INFO
023878	CCS_CAN_TIMEOUT_TP_RTC_INFO
023879	CCS_CAN_TIMEOUT_TP_EVSE_PRECHARGE_INFO
023880	CCS_CAN_TIMEOUT_TT_EVSE_PRECHARGE_INFO
023881	CCS_CAN_TIMEOUT_MSG_Sequence
023882	CCS_CAN_MSG_Unrecognized_CMD_ID

Status Code	Description
023883	CCS_SECC_DIN_Msg_Decode_Error
023884	CCS_SECC_DIN_Msg_Encode_Error
023885	CCS_SECC_ISO1_Msg_Decode_Error
023886	CCS_SECC_ISO1_Msg_Encode_Error
023887	CCS_SECC_ISO2_Msg_Decode_Error
023888	CCS_SECC_ISO2_Msg_Encode_Error
023889	CCS_SECC_CP_State_Error
023890	CCS_SECC_Unexpected_60V_Before_Charing_Error
023891	CCS_SECC_Not_Ready_For_Charging
023892	CCS_SECC_TIMEOUT_QCA7000_COMM (The firmware code of QCA7000 may not be installed, yet)
023893	CCS_SECC_FAIL_QCA7000_SETKEY
023894	Reserved
023895	Reserved
023896	Reserved
023897	Reserved
023898	Reserved
023899	Reserved
023900	GBT_LOS_CC1
023901	GBT_CONNECTOR_LOCK_FAIL
023902	GBT_BATTERY_INCOMPATIBLE
023903	GBT_BMS_BROAA_TIMEOUT
023904	GBT_CSU_PRECHARGE_TIMEOUT
023905	GBT_BMS_PRESENT_VOLTAGE_FAULT
023906	GBT_BMS_VOLTAGE_OVER_RANGE
023907	GBT_BSM_CHARGE_ALLOW_00_10MIN_COUUNTDONE
023908	GBT_WAIT_GROUNDFAULT_TIMEOUT
023909	GBT_ADC_MORE_THAN_10V
023910	GBT_ADC_MORE_THAN_60V
023911	GBT_CHARGER_GET_NORMAL_STOP_CMD
023912	GBT_CHARGER_GET_EMERGENCY_STOP_CMD
023913	GBT_ISOLATION_RESULT_FAIL

Status Code	Description
023914	GBT_MOTHER_BOARD_MISS_LINK
023915	GBT_OUTPUT_VOLTAGE_MORE_THAN_LIMIT
023916	GBT_REQ_CURRENT_MORE_THAN_LIMIT
023917	GBT_OUTPUT_VOLTAGE_MORE_THAN_10_PERCENT
023918	GBT_OUTPUT_VOLTAGE_DIFF_BCS_5_PERCENT
023919	GBT_STOP_ADC_MORE_THAN_10V
023920	Reserved
023921	Reserved
023922	Reserved
023923	Reserved
023924	Reserved
023925	Reserved
023926	Reserved
023927	Reserved
023928	Reserved
023929	Reserved
023930	GBT_CEM_BHM_TIMEOUT
023931	GBT_CEM_BRM_TIMEOUT
023932	GBT_CEM_BCP_TIMEOUT
023933	GBT_CEM_BRO_TIMEOUT
023934	GBT_CEM_BCL_TIMEOUT
023935	GBT_CEM_BCS_TIMEOUT
023936	GBT_CEM_BSM_TIMEOUT
023937	GBT_CEM_BST_TIMEOUT
023938	GBT_CEM_BSD_TIMEOUT
023939	GBT_CEM_BEM_OTHER_TIMEOUT
023940	GBT_BEM_CRM_TIMEOUT
023941	GBT_BEM_CRMAA_TIMEOUT
023942	GBT_BEM_CTS_CML_TIMEOUT
023943	GBT_BEM_CRO_TIMEOUT
023944	GBT_BEM_CCS_TIMEOUT
023945	GBT_BEM_CST_TIMEOUT

Status Code	Description
023946	GBT_BEM_CSD_TIMEOUT
023947	GBT_BEM_BEM_OTHER_TIMEOUT
023948	Reserved
023949	Reserved
023950	GBT_BST_SOC_GOAL
023951	GBT_BST_TOTAL_VOLTAGE_GOAL
023952	GBT_BST_CELL_VOLTAGE_GOAL
023953	GBT_BST_GET_CST
023954	GBT_BST_ISOLATION
023955	GBT_BST_OUTPUT_CONNECTOR_OTP
023956	GBT_BST_COMPONEN
023957	GBT_BST_CHARGE_CONNECTOR
023958	GBT_BST_OTP
023959	GBT_BST_OTHER
023960	GBT_BST_HIGH_V
023961	GBT_BST_CC2
023962	GBT_BST_CURRENT
023963	GBT_BST_VOLTAGE
023964	GBT_GET_BST_NO_REASON
023965	Reserved
023966	Reserved
023967	Reserved
023968	Reserved
023969	Reserved
023970	GBT_BSM_CELL_OVER_VOLTAGE
023971	GBT_BSM_CELL_UNDER_VOLTAGE
023972	GBT_BSM_OVER_SOC
023973	GBT_BSM_UNDER_SOC
023974	GBT_BSM_CURRENT
023975	GBT_BSM_TEMPERATURE
023976	GBT_BSM_ISOLATE
023977	GBT_BSM_OUTPUT_CONNECTOR

Status Code	Description
023978	
023979	EV full charging
023980	ERROR_CODE_CHADEMO_BMS_CHARGE_ALLOW_ERROR
023981	ERROR_CODE_CHADEMO_OUTPUT_VOLTAGE_MORE_THAN_10_PERCENT
023982	ERROR_CODE_CHADEMO_ADC_LESS_THAN_10V
023983	STOP by EV with unknow reason
033900	disconnected from backend through Ethernet
033901	disconnected from backend through WiFi
033902	disconnected from backend through 3G/4G
033903	Remote start charging by backend
033904	Remote stop charging by backend
033905	Remote reset by backend
033906	Reserved
033907	Reserved
041004	RCD/CCID self-test fail
041005	AC input contactor 1 welding
041006	AC input contactor 1 driving fault
041007	AC input contactor 2 welding
041008	AC input contactor 2 driving fault
041009	AC output relay welding
041010	AC output relay driving fault
041017	AC connector temperature sensor broken
041021	WiFi module broken
041022	3G/4G module broken
041023	Aux. power module broken
041024	Relay control module /smart box broken
041031	PSU module broken
041032	RCD/CCID module broken
041033	Maximum Output Current setup error
041034	Shutter fault
041035	Ble module broken

Status Code	Description
041036	Rotary switch fault
042200	System L1 input OVP
042201	System L2 input OVP
042202	System L3 input OVP
042203	System L1 input UVP
042204	System L2 input UVP
042205	System L3 input UVP
042206	PSU L1 input OVP
042207	PSU L2 input OVP
042208	PSU L3 input OVP
042209	PSU L1 input UVP
042210	PSU L2 input UVP
042211	PSU L3 input UVP
042212	System L1 input drop
042213	System L2 input drop
042214	System L3 input drop
042223	System ambient/inlet OTP
042224	System critical point OTP
042225	PSU ambient/inlet OTP
042226	PSU critical point OTP
042227	Aux. power module OTP
042228	Relay board/smart box OTP
042232	AC connector OTP
042233	RCD/CCID trip
042237	SPD trip
042238	Main power breaker trip
042239	Aux. power breaker trip
042240	PSU communication fail
042241	WiFi module communication fail
042242	3G/4G module communication fail
042244	Bluetooth module communication fail
042246	Aux. power module communication fail

Status Code	Description
042247	Relay control boaed/smart box communication fail
042251	Emergency stop
042252	Door open
042253	System fan decay
042254	Fail to create share memory
042255	CSU initialization failed
042257	MCU self-test Fault
042258	Relay self-test Fault
042262	System AC L1 output Circuit Short
042263	PSU Duplicate ID
042264	PSU Output Short Circuit
042265	PSU Discharge Abnormal
042266	PSU Dc Side ShutDown
042267	PSU Failure Alarm
042268	PSU Protection Alarm
042269	PSU FanFailure Alarm
042270	PSU Input UVP
042271	PSU Input OVP
042272	PSU WalkIn State
042273	PSU Power Limited State
042274	PSU Id Repeat
042275	PSU Severe Uneven Current
042276	PSU Three Phase Input Inadequate
042277	PSU Three Phase Onput Imbalance
042278	PSU Ffc Side ShutDown
042279	NO PSU Resource
042280	Self test Failed due to communication of Relayboard failure
042281	Self test Failed due to communication of Fanboard failure
042282	Self test Failed due to communication of Primary failure
042283	Self test Failed due to communication of Chademoboard failure
042284	Self test Failed due to communication of CCSboard failure
042285	Self test Failed due to AC Contact failure

Status Code	Description
042286	Self test Failed due to communication of PSU failure
042287	Self test Failed due to Model name is none match
042291	Self test Failed due to communication of GBTboard failure
042292	Self test Failed due to communication of AC failure
042293	Self test Failed due to communication of Ledboard failure
042294	AC input ovp
042295	AC input uvp
042299	System AC L2 output OCP
042300	System AC L3 output OCP
042301	System AC L2 output Circuit Short
042302	System AC L3 output Circuit Short
042304	disconnected from dispenser
042305	Meter communication timeout
042306	The dip switch of the PSU may be incorrect
042307	Psu Fuse Burn-Out
042308	Psu Pfc And Dcdc Communication Fault
042309	Psu Bus Voltage Unbalance
042310	Psu Bus Over Voltage
042311	Psu Bus Voltage Abnormal
042312	Psu Bus Under Voltage
042313	Psu Input Phase Loss
042314	Psu Fan Full Speed
042315	Psu Temperature Power Limit
042316	Psu Ac Power Limit
042317	Psu Dcdc Eeprom Fault
042318	Psu Pfc Eeprom Fault
042319	Psu Dcdc Over Voltage
043600	Normal stop charging by user
043601	Charging Time's up
043602	Replace system air filter
043607	CSU fimrware update fail
043611	Aux. power module fimrware update fail

Status Code	Description
043612	Relay control module fimrware update fail
043614	Bluetooth module fimrware update fail
043615	WiFi module fimrware update fail
043616	3G/4G module fimrware update fail
043617	SMR fimrware update fail
043618	RFID module fimrware update fail
043619	configured by USB flash drive
043620	configured by backend
043621	configured by webage
043622	disconnected from Internet through Ethernet
043623	disconnected from Internet through WiFi
043624	disconnected from Internet through 3G/4G
043625	disconnected from AP through WiFi
043626	disconnected from APN through 3G/4G
043627	WiFi disabled (separated charger only)
043628	4G disabled (separated charger only)

5. Maintenance

5.1 General Maintenance

- Please ensure proper air ventilation surrounding the EVSE units. Do not block the air inlet and outlet grille to allow proper heat dissipation of the EVSE units. Failure to follow the precaution may lead to overheating of the units.



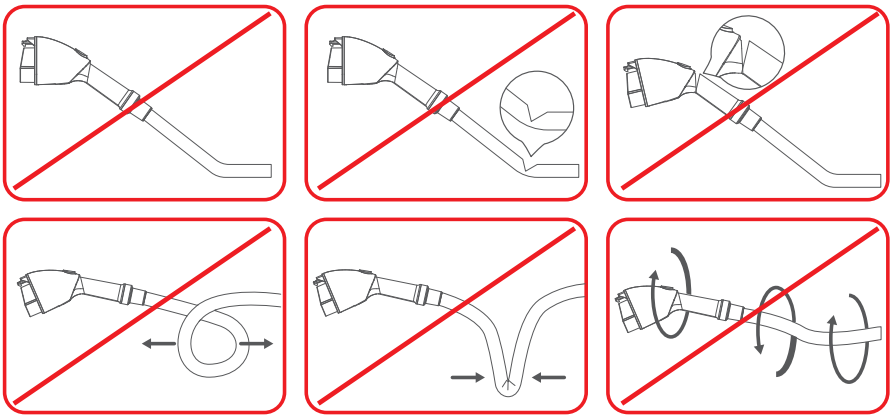
CAUTION : Make sure all maintenance process do follow safety regulation and local electrical code.

- Press the release button on the holster for the CCS2 charging connector before detaching the CCS2 charging connector from the holster of the charging station.
- 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 loop the cable nicely around the bundle and wrap it gently back onto the holder. Please attach the charging connector back to the holster securely.
- 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 touch screen.
- After open door maintenance , please close and lock the door .
- The 7-inch LCD screen cannot be wiped with organic solvents.
- If the enclosure or screen is broken, cracked, open or shows any other indication of damage then please contact the DC Fast Charger provider.



WARNING: Danger of electrical shock or injury. Turn OFF power 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.

- Turn off power distribution cabinet to the Power Dispenser 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.
- Before switching off main breaker to begin maintenance, please record the status code number on the LCD monitor.
- After opening the doors of the power dispenser, turn off the main breaker and auxiliary breaker before any maintenance work.
- Maintenance of the power dispenser shall be conducted only by a qualified technician.
- Replace the air filter every six to twelve months.
- Inspect the charging connector, pump, cooling unit and coolant every 3 months
- Do not twist, swing, bend, drop or crush the charging cable. Never drive over it with a vehicle.

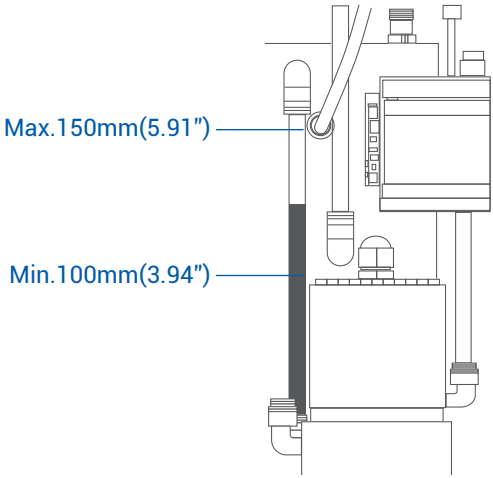


- Make sure that the minimum bending radius is not exceeded.
- After charging, place the cable immediately back into the holder of the charging station.
- Leakage or material degradation may occur if a coolant other than that specified by the manufacturer of the accessory is used.

- Pump must not be operated without coolant ; level of coolant should be keep in 100mm(3.94")~150mm(5.91").

  Note: Considering the different environmental conditions, we recommend the minimum height greater than 130mm.

- The air will be concentrated in cooling system if the charger is not used for a period.
- Please exhaust the air first as instruction after setting.
- If you observe that the customer has not used it for a long time, please pay special attention.



- Please carry the following inspection at specified interval for liquid cooled charging cable system

A. Recommended maintenance interval every 3 months or as needed Connector:
  - Visual inspection for defects or damage.
  - Check cover for scratches.
  - When exchanging the cover, check for mechanical damages.
  - Check the screws for secure fastening.
  - Clean the outside of the connector with damp cloth.
  - Clean the outside of the connector with a wet cotton towel.

Cable:
• Visual inspection for defects or damage.
• Check the charging cable for secure fastening.
• Clean the charging cable with a wet cotton towel.

Cooling Unit:
• Visual inspection for defects or damage.
• Check the cooling unit for secure fastening.
• Check the level of the coolant. (If required refill the coolant)

B. Recommended maintenance interval every 12 months Wait until the charging system has coole down. Cable, connector and cooling unit:
• Check for firm seat.
• Visual inspection for defects or damage.
• Check the safety function.

Cooling Unit:
• Visual inspection for defects or damage.
• Check the cooling unit for secure fastening.
• Check the level of the coolant.

5.2 Replacement Kits and Accessories

The DC EVSE offers the following replacement kits and accessories.

Replacement Kit List
7-inch LCD
RFID reader
CCS/CHAdeMO 200Amp (or above) DC charging connector & 4M (or above) charging cable, depending on the connector that shipped
Charging Cable Holder
Emergency Stop Button
MW Aux. Power HEP-100-12V/24V for DWIN Panel & Backplane
Control & Supervisory Unit (CSU3.1)
Surge Protection Device (SPD)
DC Fan
Air Filters
Door Key
Gland(M50)
User Manual
Relay
Coolant
Cooling unit
Relay board
Fan board
LED board
Hub

6. Limited Product Warranty

- The product body is made of metal welding and surface painting. When the product placed in a natural environment, different environmental factors will make the surface appear slight rust possibly during warranty period (E.g., acid deposition), it does not affect the charger function.
- 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 five-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:

1. 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.
2. Cosmetic or superficial defect, dents, marks or scratches after use.
3. Components which are separate from the product, ancillary equipment and consumables, such as door key, RFID card, quick guide, air filter, fuse, cable, wires, coolant in cooling unit and connectors.
4. Damage as a result of modifications, alterations or disassembling which were not pre-authorized in writing by Supplier.
5. Damage due to the failure to observe the applicable safety regulations governing the proper use of the product.
6. Installed or operated not in strict conformance with the documentation, including without limitation, not ensuring sufficient ventilation for the product as described in Supplier installation instruction.

- If a defect in the product arises and a valid claim is submitted within the warranty period, your sole and exclusive remedy will be for Supplier, 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 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 result in resulting from adapter accident or damages resulting from unauthorized service.

Appendix - Package list

Item	Description	No.	Remark
1	EVSE-Power Dispenser	1	
2	User Manual	1	
3	OQC Report	1	
4	RFID Card	2	
5	Key of cabinet	1	
6	MSDS -Coolant CP3-002	1	
7	Waterproof plastic bolt	4	
8	CAT6A FTP RJ45 Plug	2	

Manufacturer Contact Info Sticker