VESTEL
MOBILITY

ELECTRIC VEHICLE CHARGER

EVC06-DCHC60 Series

Installation Guide

CONTENTS

1- SAFETY INFORMATION 3
1.1 - SAFETY WARNINGS 3
1.2 - FIRE FIGHTING INSTRUCTIONS FOR ELECTRIC VEHICLE CHARGING STATION 5
1.3 - GROUND CONNECTION WARNINGS 5
1.4 - POWER CABLES, PLUGS, AND CHARGING CABLE WARNINGS 5
1.5 - PROTECTIONS REQUIRED BEFORE SYSTEM 6
2 - INTRODUCTION 7
3 - GENERAL INFORMATION 8
3.1 - INTRODUCTION OF THE PRODUCT COMPONENTS 8
3.2 - DIMENSIONAL DRAWINGS 9
4 - REQUIRED EQUIPMENT, INSTRUMENTS AND ACCESSORIES 10
4.1 - SUPPLIED INSTALLATION EQUIPMENT, TOOLS AND ACCESSORIES 10
4.2 - RECOMMENDED EQUIPMENT AND TOOLS 11
5 - ELECTRICAL PROPERTIES 12
6 - USER INTERFACE AND AUTHENTICATION 13
7 - CONNECTION 13
8 - MECHANICAL PROPERTIES 13
9 - ENVIRONMENTAL SPECIFICATIONS 14
10 - CHARGING STATION INSTALLATION 14
10.1 - UNPACK THE CHARGING STATION 15
10.2 - ESTABLISHMENT OF THE STATION BY PREPARING THE CONCRETE AND ANCHOR PLATE 16
10.3 - FOUNDATION, ALIGNMENT, LAYOUT 18
10.4- OPENING THE FRONT COVERS 22
10.5 - CABLE ASSEMBLY 23
10.5.1 - OPENING THE FRONT COVER AND CABLE CONNECTION 23
10.5.2 - SIM CARD CONNECTION (Optional) 25
10.5.3 - CONNECTING OCPP THROUGH ETHERNET NETWORK 26
10.5.4 - CONNECTING TO THE SAME NETWORK WITH THE ETHERNET PORT 26
10.5.5 - OPENING WEB CONFIGURATION INTERFACE WITH BROWSER 27
10.5.6 - MAIN PAGE 28
10.5.7 - GENERAL SETTINGS PAGE IN WEB CONFIG UI 29
10.5.7.1 - Default Interface Languages 29
10.5.7.2 - Display Settings 29
10.5.7.3 - Display Logo 30
10.5.7.4 - Boot Logo 30
10.5.7.5 - Tilt Threshold 31
10.5.7.6 - Display QR Code 31
10.5.7.7 - Customer Service Number 32

10.5.8 - OCPP SETTINGS 33
10.5.8.1 - OCPP Connection 33
10.5.8.2 - OCPP Version 34
10.5.8.3 - Connection Settings 35
10.6.8.4 - OCPP Configuration Parameters 35
10.6.8.5 - Switching Auto Charge on/off (Optional) 39
10.6.8.6 - NETWORK INTERFACES SETTINGS 40
10.5.9 - POWER MANAGEMENT 42
10.5.9.1 - DC Output Configuration 42
10.5.9.2 - Charge Point Maximum Power 42
10.5.9.3 - Fail Safe Power 43
10.5.9.4 - Power Module Configurations 44
10.5.9.5 - Connector Settings 44
10.5.10 - SYSTEM MAINTENANCE 45
10.5.10.1 - Log Files 45
10.5.10.2 - Firmware Updates 45
10.5.10.3 - Configuration Backup/Restore 46
10.5.10.4 - System Reset 46
10.5.10.5 - Administration Password 47
10.5.10.6 - Factory Default Configuration 48
10.6 - CLOSING THE COVER 49
11- PERIODIC MAINTENANCE LIST 49
12 - WIRELESS LAN TRANSMITTER SPECIFICATIONS 51

1- SAFETY INFORMATION

CAUTION

THE RISK OF ELECTRIC SHOCK

CAUTION: THE ELECTRIC VEHICLE CHARGER CAN ONLY BE INSTALLED BY A LICENSED OR EXPERIENCED ELECTRICIAN BY THE ELECTRICAL REGULATIONS AND STANDARDS OF ANY RELATED REGION OR COUNTRY.

CAUTION

The AC grid connection and the electric vehicle charger's load plan are examined and approved by the electrical regulations and standards of the related region or country determined

by the authorities. In the installation of multiple electric vehicle chargers, the load plan will be determined accordingly. The manufacturer shall not be liable in any way, directly or indirectly, for damages or risks caused by the errors that may occur due to AC grid connection or load planning.

CAUTION: FOR DEVICES WITHOUT EMERGENCY BUTTON;

If any suspicious or emergency situation arises at the charging station aside from normal operation, start by halting the charging process through the vehicle (using the appropriate switch or button, which may vary depending on the model), and then disconnect the socket. As an alternative option, consider switching off the MCB or RCCB in the panel where the product is energized by the installer.

IMPORTANT - Read these instructions fully before installation or operation.

1.1 - SAFETY WARNINGS

- Keep this manual in a safe place. These safety and operating instructions should be kept in a safe place for future reference.
- Check the voltage specified on the rating plate and do not use the charging station without the proper mains voltage.
- Do not continue to use the unit if you have any doubts as to whether it is working normally. If the device has been damaged in any way, switch off the main supply circuit breakers (MCCB and RCCB) in the upstream distribution board. Consult your local dealer.
- During charging, the ambient temperature range (without direct sunlight) should be between -35 ˚C and +55 ˚C and the relative humidity should be between 5% and 95%. Use the charging station only within the specified operating parameters.
- The device location should be consciously selected in order to prevent the charging station from overheating. High temperature caused by direct sunlight or heating sources during use may cause the charging current to decrease or the charging process to be temporarily interrupted.

- The charging station is made for indoors and outdoors. It can also be used in public open spaces.
- To reduce the risk of fire, electric shock, or product damage, do not expose the unit to heavy rain, snow, lightning storms or other harsh weather conditions. Furthermore, liquids should not be spilled or splashed on the charging station.
- Do not touch the end terminals of the charging station, the electric vehicle connector and other dangerous current parts with sharp metal objects.
- Avoid exposing the unit to heat sources and place it away from flammable, explosive, hard or caustic materials, chemicals or steam.
- Explosion Risk. This equipment contains internal spark or spark-generating parts and must not be exposed to flammable vapours. It should not be placed in lowered or below ground level locations.
- This device does not support the ventilation request requested by the vehicle.
- Make sure that the specified Current Switch and RCD are connected to the building mains to prevent the risk of explosion and electric shock.
- The base part of the charging station should be at (or above) ground level.
- Adapters or converter adapters cannot be used. Cable extension sets cannot be used.
- Mount this charging station on the wall.
- Use this product at an altitude of not more than 2000 meters above sea level.
- Do not place objects containing liquids, such as glasses and bottles, on the product.
- Against the risk of choking, keep the plastic packaging materials out of the reach of babies, small children and pets.
- Do not wash the device with water.
- Do not use abrasive fabrics, wet cloths, alcohol or detergents. Microfiber fabric is recommended.
- Keep the door lock key, which enables the product panel to be opened and prevents access to electrical parts, out of the reach of small children.
- It should be kept in its original box to prevent damage to device components during transport.
- Defects and damages that occur during transportation after the device shipment to the customer are not covered by the warranty.
- The allowed current value of the service socket is a maximum of 10A.
- Please adhere to the rope warnings outlined in the “Basic Alignment and Layout” section, especially when transporting the product.

WARNING : Persons (including children) who are physically, perceptually or mentally incompetent or inexperienced should not use electrical devices without the supervision of a person responsible for their safety.

CAUTION: This vehicle charger is designed only for charging the electric vehicles that do not require ventilation during charging.

1.2 - FIRE FIGHTING INSTRUCTIONS FOR ELECTRIC VEHICLE CHARGING STATION

- Personal Safety: If you observe a fire or notice any danger signs, prioritize your safety above all else. Do not take unnecessary risks.
- Notify Emergency Services Immediately: Contact your local emergency services. Dial the emergency number 998 or 112.
- Stopping the Charging Process: If it is safe, disconnect the charging cable from the vehicle and the charging station.
- Use of Fire Extinguishing Agents: If a fire extinguisher or other firefighting equipment is nearby and you are trained to use it, attempt to extinguish the fire. However, never risk your own safety.
- Avoid Direct Contact with Fire: Do not try to extinguish a fire unless you have the appropriate equipment, training, or knowledge, or if the fire is exceptionally large or dangerous.
- Move Away from the Station: If the fire cannot be controlled or is intensifying, evacuate from the charging station while maintaining a safe distance.
- Avoid Inhaling Smoke: Try to avoid breathing in smoke. If possible, cover your nose and mouth with a damp cloth or clothing.
- Warn Others in the Area: Alert others nearby about the fire hazard and urge them to evacuate the area.
- Wait for Emergency Services: After safely evacuating the area, wait for emergency services to arrive in a secure location.
- Do Not Return to Station Facilities: Do not re-enter the charging station building until emergency services have concluded their operations.
- Reporting the Incident: Contact customer support to report the incident.

Remember, safety is always the top priority. In the event of a fire, always seek guidance from local emergency services and adhere to their instructions.

1.3 - GROUND CONNECTION WARNINGS

- The charging station should be connected to a central grounding system. The grounding conductor entering into the charging station should be connected to the equipment grounding lug inside the charging station. This should be powered by the circuit conductors and connected to the equipment grounding rod or to the guide member at the charging station. Connections to the charging station are in the charge of the installers and purchasers.
- Connect it only to correctly grounded plugs to reduce the risk of electric shock.
- **WARNING :** Make sure that the charging station is permanently and properly grounded during installation and use.

1.4 - POWER CABLES, PLUGS, AND CHARGING CABLE WARNINGS

- Note that the plugs and sockets in the charging station are compatible.
- A damaged charging cable may cause a fire or electrical shock conditions. Do not use this product if the Flexible Charging cable or vehicle cable is worn, has frayed insulation, or shows any different signs of damage.
- Make sure the charging cable is well placed, thus you will not step on and trip over the cable or the cable will not damage or subject to stress.

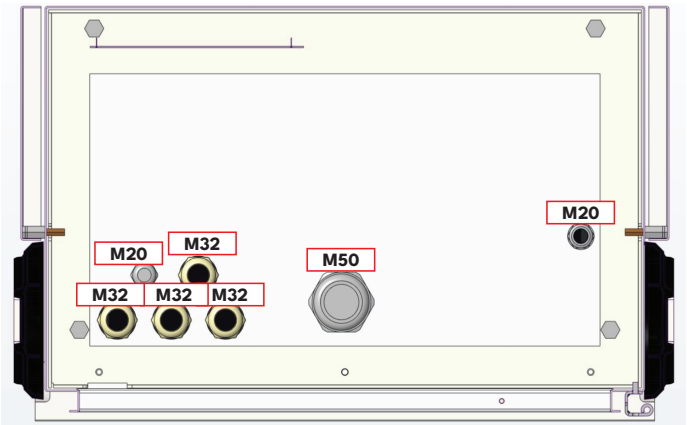
- Do not forcibly pull on the charging cable or damage the cable with sharp objects.
- Never touch the electric cable/plug or vehicle cable with wet hands as this may cause a short circuit or electric shock.
- To avoid the risk of fire or electric shock, do not use this device with an extension cable. In case of damage to the mains cable or vehicle cable, the cables should be replaced by the manufacturer, service agency or similar qualified persons to prevent any hazards.
- Use appropriate protection while connecting the device to the main power distribution cable.

1.5 - PROTECTIONS REQUIRED BEFORE SYSTEM

- Class I/B Lightning Protection should be connected to the upstream distribution board. It is recommended that the cable length between the charger and the protection device be at least 10m. *The charger is equipped with a Class II/Type C Surge Protective Device (SPD).
- To prevent the residual current, Type A residual current relay with toroidal sensor should be used on the panel before the device. The minimum current sensitivity should be set to 300mA.
- MCCB (Thermal Magnetic Adjustable) should be connected to the upstream distribution box.

Model	CCS	CCS - 2	Power output	Input Voltage	Input AC current	Recommended Section Values L1-L2-L3 (mm2) (Copper Conductor Cable)	Recommended Cross Section Value for Neutral (Copper Conductor Cable)	Recommended Cross Section Value for PE (mm2) (Copper Conductor Cable)
EVC06DC - HC60C	60	-	60kW	400V (nom.)	95A	35	16	35
				360V (-%10)	105A			
EVC06DC - HC60CC	30	30	60kW	400V (nom.)	95A	35	16	35
				360V (-%10)	105A			

Minimum cable cross-sections are provided for maximum AC input current. The final cross-sections of the installation conductors should be calculated by the installer, taking into account the distances and mounting location conditions.

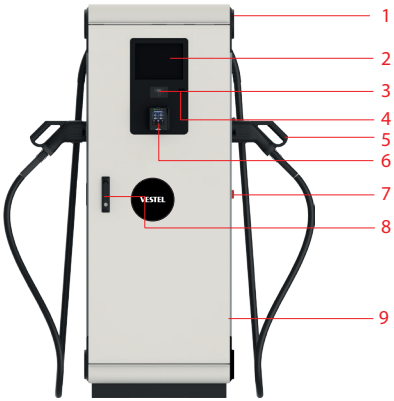


2 - INTRODUCTION

Model Name	**EVC06DC-HC Series (Name Coding: EVC06DC-HC****)** First Star (*) : Related Power 60 : 60 kW DC Power Output Second Star (*) : DC output combination 1 C : CCS Output Third Star (*) : DC output combination 2 C : CCS Output Blank : No CCS output Fourth Star (*) : Blank : No DC Meter EICH : Eichrecht Meter
Cabinet	EVC06HC

3 - GENERAL INFORMATION

3.1 - INTRODUCTION OF THE PRODUCT COMPONENTS



1- LED Indicator

2- Display

3- RFID Card Reader

4- ALS Sensor

5- DC CCS Output Plug

6- Payment Terminal Option

7- Emergency Stop Button(Optional)

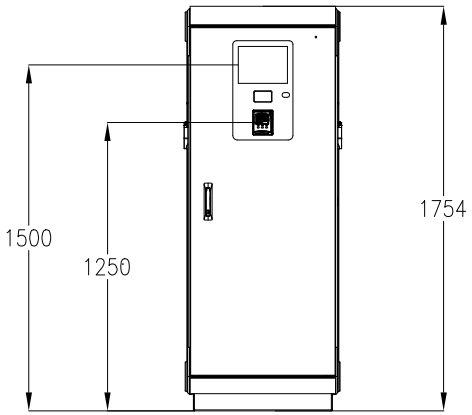
8- Access Cover for CTB, PLC Card and HMI

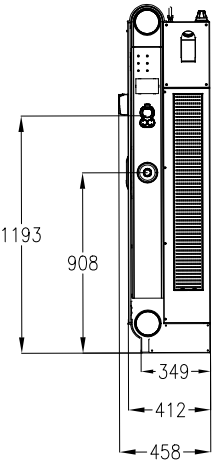
9- Fan Access Cover

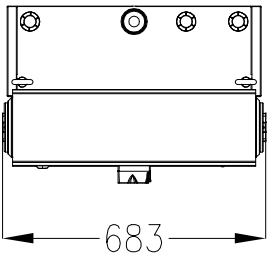
All products images are given for representative purpose only.

3.2 - DIMENSIONAL DRAWINGS

Front, Side and Top View







4 - REQUIRED EQUIPMENT, INSTRUMENTS AND ACCESSORIES

4.1 - SUPPLIED INSTALLATION EQUIPMENT, TOOLS AND ACCESSORIES

Special Switch M50 x M40	
M12 Flange Bolt x2	
M12 special anchor bolt set (4 pcs)	
Anchor plate (1 pc)	
Product control with internet connection(Optional)	
1 set (x2) Lock Key	

4.2 - RECOMMENDED EQUIPMENT AND TOOLS

			
Ø20 Drill Bit	Hammer Drill	PC	Phillips Screwdriver
			
13(M8) , 17(M10), 19(M12) Wrench	RJ45 crimping tool	Cat5e or cat6 ethernet cable	Hammer
			
M20 Steel Dowel x4	RJ45 Male Connector	T25 Screwdriver	20 - 200 Nm D:40mm H:43mm

5 - ELECTRICAL PROPERTIES

Model		EVC06-DCHC Series
IEC Protection class		Class - I
IEC EMC Class		IEC 61000-6-3 Class B-Domestic(Emission) IEC 61000-6-2 Industrial(Immunity)
Input Rated Voltage and Current Value	**Input Rate**	400 Vac ±10% , 50/60 Hz, 95 A
	Connection	3P+N+PE (TN,TT)
	Power Factor:	> 0.98
	Efficiency	> %95
	Residual Current Protection	230Vac RCBO 1P+N, Tip A, 30mA(system)
	Standby Power Consumption	< 50 W
Output 1 - CCS	**Max. Power**	60 kW
	Voltage Range	200 – 920 Vdc
	Maximum Current	200 A
	Interface Compatibility	IEC62196-1 / 3 IEC 61851-1 / 23 / 24 ISO 15118-1 / 2 / 3 DIN 70121
Output 2 - CCS	**Max. Power**	60 kW
	Voltage Range	200 - 920 Vdc
	Maximum Current	200 A
	Interface Compatibility	IEC62196-1 / 3 IEC 61851-1 / 23 / 24 ISO 15118-1 / 2 / 3 DIN 70121
Internal Precautions		Residual current detection/Insulation supervision/Overcurrent / Overvoltage / Undervoltage / Short circuit / Over Temperature / Overvoltage Protection
Supported Charging Modes		Mode 4 (22kW AC Optional) - Mode 3

6 - USER INTERFACE AND AUTHENTICATION

Screen	10.4” Colour TFT LCD
User Interface	High Brightness Resistive Touch Screen
RFID Reader Module	ISO/IEC14443A/B and ISO/IEC-15693
Payment module (Optional)	Contactless Credit Card kit options Please contact with the following service providers for installation. https://www.payter.com/contact https://www.nayax.com/contact/
DC MID Meter (Optional)	MID meter Approved
DC MID Meter (Optional)	Eichrecht Germany compatibility

7 - CONNECTION

LAN Connection	Ethernet
WLAN Connection	2.4GHz/5GHz: 802.11 a/b/g/n/ac
Mobile Connection	GSM 900/1800 UMTS 900/2100 LTE Band 1/3/7/8/20/28A
OCPP Specification	OCPP 1.6 J

8 - MECHANICAL PROPERTIES

Materiel	Galvanized Sheet Metal Panel	
Degree of Protection	Water and Dust protection Impact Protection	IP54 IK10
Cooling	Air Cooling Fan	
Cable Length	CCS: 3.50 m CCS: 5 m	
Dimensions (Product)	1754 mm (Length), 683 mm (Width), 458 mm (Depth)	
Dimensions (packed version)	2000 mm (Length), 950 mm (Width), 590 mm (Depth)	
Weight (Product)	263 kg.	
Packed Weight	363 kg with package	

9 - ENVIRONMENTAL SPECIFICATIONS

Conditions of Use	Temperature	-35˚C to + 55 ˚C (Derating is applied over +40˚C to +50 ˚C) For products with credit card option-20˚C to + 55˚C (Derating is applied over +40˚C to +50 ˚C)
	Humidity	5% to 95% (Relative humidity, non-condensing)
	Altitude	0 - 2,000m

After the product is energized at low temperatures, it should wait for the heater in the charger to activate, and charging should be done after this process.

10 - CHARGING STATION INSTALLATION

It is recommended that the screws inside the product exceed 240 hours in the Salt Fog Testing according to the ASTM B117 Method. It is recommended that the screws outside the product exceed 720 hours.

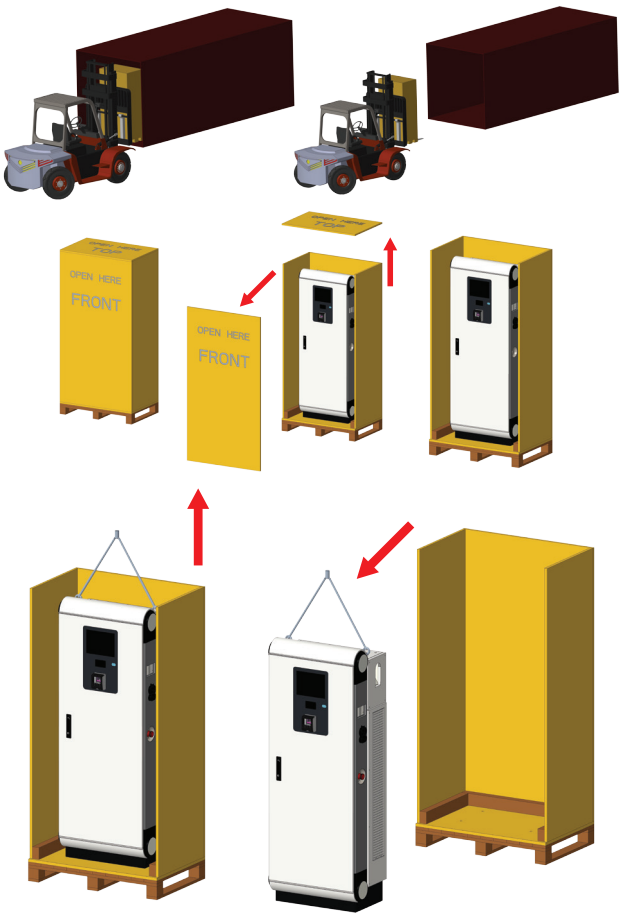
WARNING: ELECTRIC SHOCK OR INJURY HAZARD. DISCONNECT THE MAINS SUPPLY OF THE CHARGING STATION BEFORE ANY INSTALLATION STEP

WARNING : TO PREVENT INJURIES OR DAMAGE TO THE CHARGING STATION, MAKE SURE THE INSTALLATION AREA IS SUITABLE AND THAT THE FLOOR CAN RESIST THE WEIGHT OF THE CHARGING STATION.

10.1 - UNPACK THE CHARGING STATION

Unpack the charging station as shown in the figure below.

Note that the front and top covers are marked as shown in the figures.



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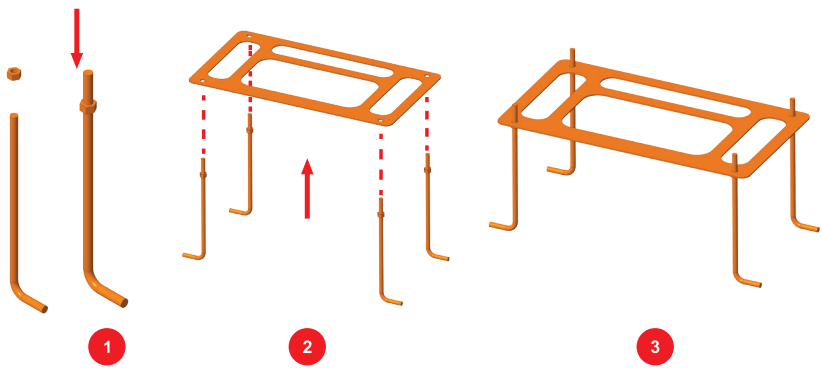
10.2 - ESTABLISHMENT OF THE STATION BY PREPARING THE CONCRETE AND ANCHOR PLATE

Make sure that the materials and installation procedures used for the concrete foundation comply with the local building codes and safety standards.

For the Preparation and Mounting of the Anchor Plate, the following three steps should be followed as also shown in the figures:

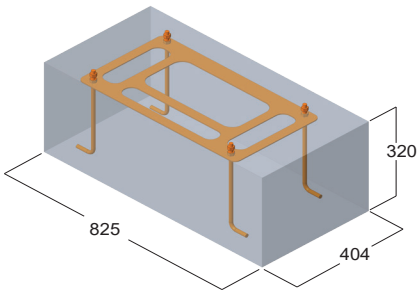
1. Attach each nut one by one to each bolt as shown.
2. Attach the anchor plate to the bolts as shown in the figure.
3. Mount the nuts on the anchor bolt to secure with the bolts.

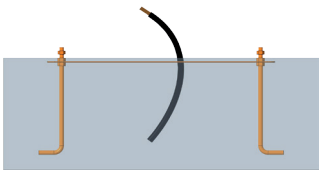


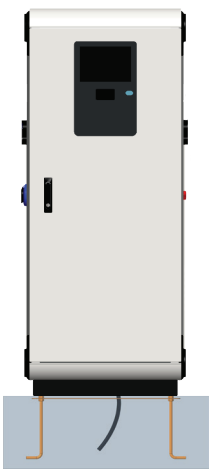
For the preparation of the installation site and wiring, the following steps should be followed as also shown in the figures:

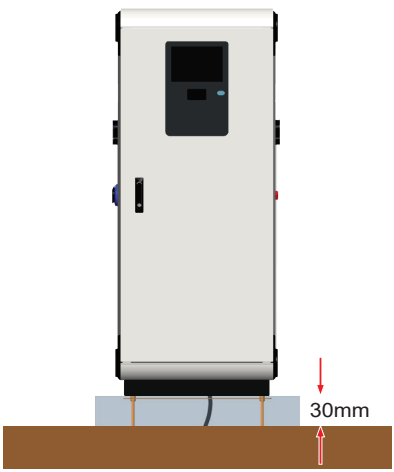
1. Dig a pit for the anchor bolts and plate assembly (dimensions as: 320x825x404 – DxWxH mm). The ground of the pit should be grinded and horizontal.
2. Place the anchor arrangement in the pit.
3. Before the concrete is poured, the cables should be placed in the middle part and pulled through the sheet hole. Pull the supply cable and possible data cable through the floor mounting box cable glands and also through the mounting box cable hole. A minimum clearance of 500 mm for the AC mains cable and 0.5 meters for the ethernet cable should be left from the ground surface of the mounting box.
4. Fill the pit with concrete. Then set the mounting assembly as shown in the picture. The upper surface of the 2nd bolt should be at the concrete level. A level indicator can be used while adjusting.
5. Allow the concrete to solidify, note that the surface remains firm and flat during the process.
6. Place the charging station on the anchor plate as shown in the figure. Pass the cables through the cable glands.

7. Fix the charging station to the surface as shown in the figure by joining the metal holes and nuts on the bottom cover.
8. Tighten the cable glands.
9. The base part of the Charging Station should be at least 30mm above the ground.









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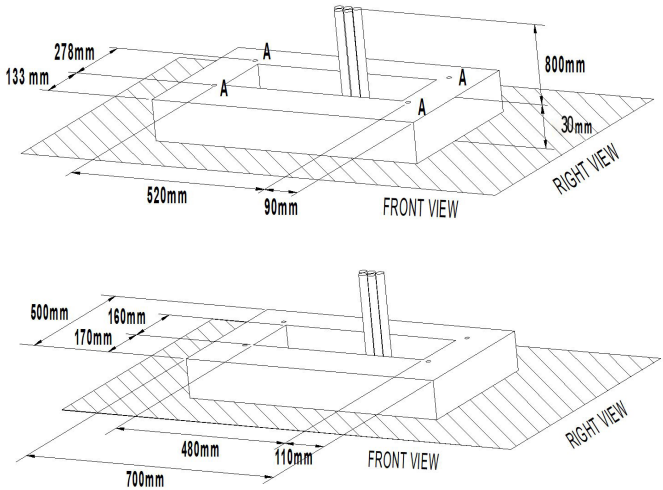
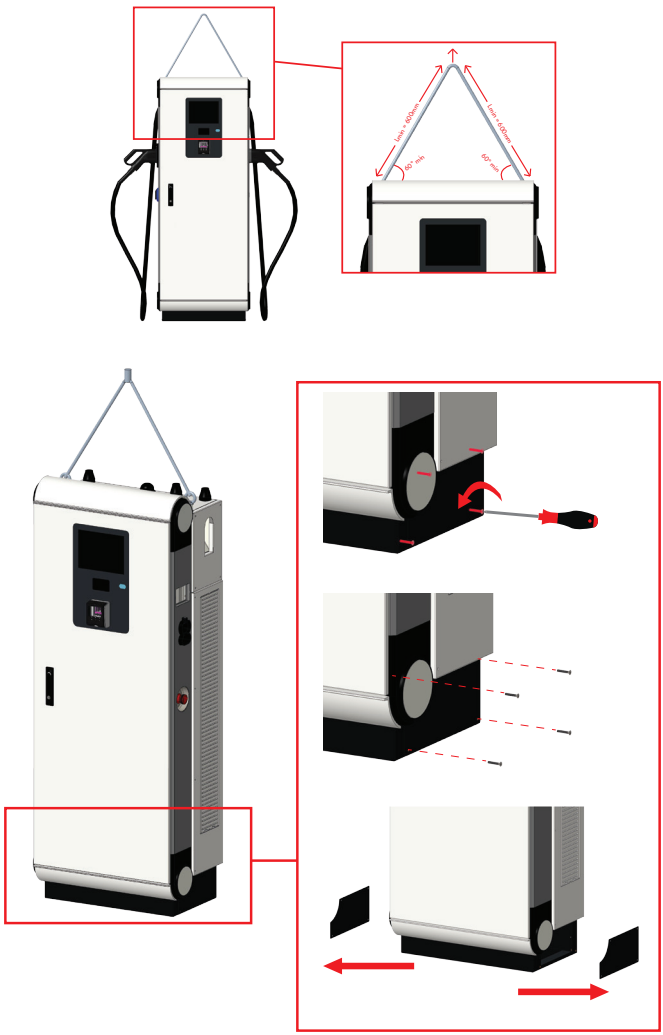
10.3 - FOUNDATION, ALIGNMENT, LAYOUT

The dimensions of the concrete foundation are as shown below:



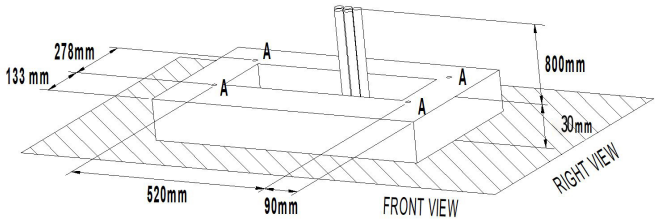
1. For installation, a minimum distance of 1 meter must be left from the right and left side of the device.
2. Dig a foundation pit in the ground according to the dimensions of the concrete foundation shown in the figure.
3. Drill a rectangular hole from top to bottom in the concrete foundation for the cables (3P+N+PE and Communication) from the mains supply. The dimensions and location of the concrete foundation are shown in the Figure.
4. The upper surface of the foundation should be at least 30mm above the ground.
5. Open the front cover of the product with the switches provided by turning the handle counterclockwise at a wide angle.
6. For the cable group in the cabinet, a cable length of 80 cm should be provided above the foundation.
7. Drill 4 holes on the concrete foundation with the dimensions shown in the figure and drive the M20x170 expansion bolt into these holes as shown in the Figure.
8. Remove the bottom plates (left and right) by unscrewing the plates.
9. In cases where the product needs to be transported; During lifting, it is necessary to use 2 ropes of min. 600mm (if a single rope of min. L=1200mm is used, the rope should be fixed at the middle lifting part).

   During lifting, there should be a minimum angle of 60 degrees at both rope ends, as shown in the image. Using a shorter sling will cause damage to the product.



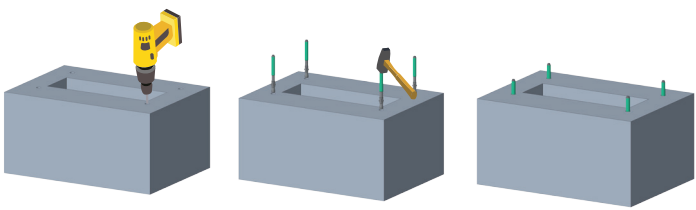
All products images are given for representative purpose only.

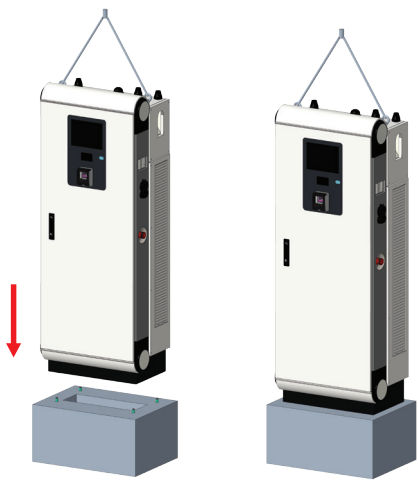
10. Lift the charging station by removing the eye bolts and place the station on the concrete foundation so that the base holes of the charger align with the expansion bolts in Figure. Tighten the expansion bolts with the nuts. The type of the expansion bolts is shown in the Figure.



Hole Drilling Diameter: Ø20 mm, Drilling Depth: 155mm (Torque: 200Nm)

M20





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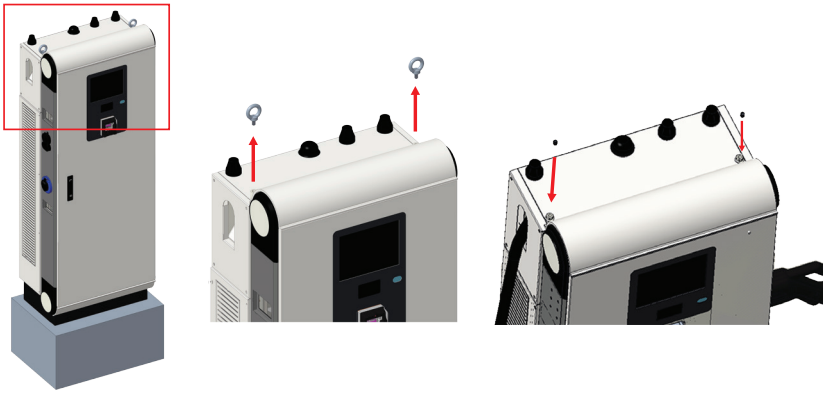
11. Remove the eye bolts after placing the charging station. Tighten the screws with setscrews as shown in the figure.



All products' images are given for representative purpose only

10.4 - OPENING THE FRONT COVERS

Use the key provided to open the front cover.

Pull the handle up slightly. Turn the handle to the right of the charging station at a wide angle.

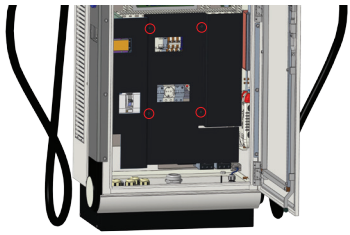
All products images are given for representative purpose only.

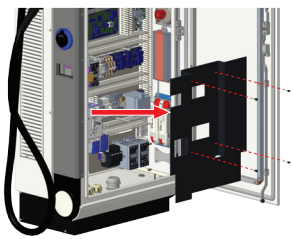
1. Insert the cover opening key into the cover lock.
2. Turn the key to the right.
3. After turning the key, pull the cover lock apparatus towards you.
4. Turn the opened cover lock apparatus counterclockwise.
5. This way, the cover will open.

10.5 - CABLE ASSEMBLY

10.5.1 - OPENING THE FRONT COVER AND CABLE CONNECTION

1. Open the front cover of the product with the switches provided by turning the handle counterclockwise at a wide angle.
2. Remove the screws and also the insulation plate covering the AC Mains cable in the lower right corner.





All products images are given for representative purpose only.

Clamping shoe positions:

All clamping shoes (L1, L2, L3, PE and N) must be selected for the wire size shown in the table.

This structure is designed to mount cables with low flexibility with crimping shoes on the busbar, as shown in the figure. Thus, the midpoints of the cable glands and crimping shoes are aligned with the same axis (z-axis), as shown in the figure. Installation should be performed as shown in the figure.

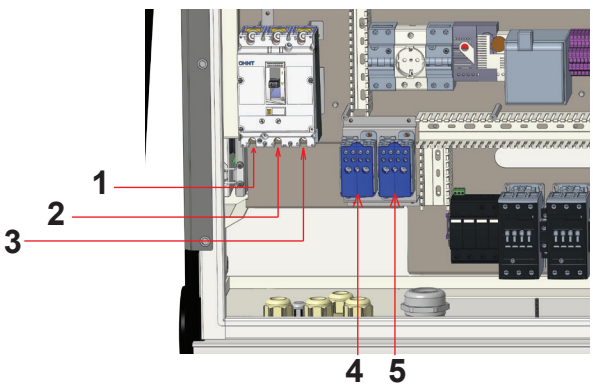
Contact surface of cable gland nuts and clamping shoes:

The surface contact of the clamping shoes and cable glands is shown in brown in the figure. The mounting surface of the clamping shoes corresponds to 92% of the surface data shown in the clamping shoe data sheet compatible with a cable cross-section.

M10-SKP

3. Pass the cables through the cable glands at the bottom of the charging station.
4. Connect the AC Mains cables. First, connect the “PE Line” cable, then the “Line N” cable, and finally the three phase cable (“Line 1”, “Line 2”, “Line 3”) as shown in the figure:

Phase sequence is clockwise.



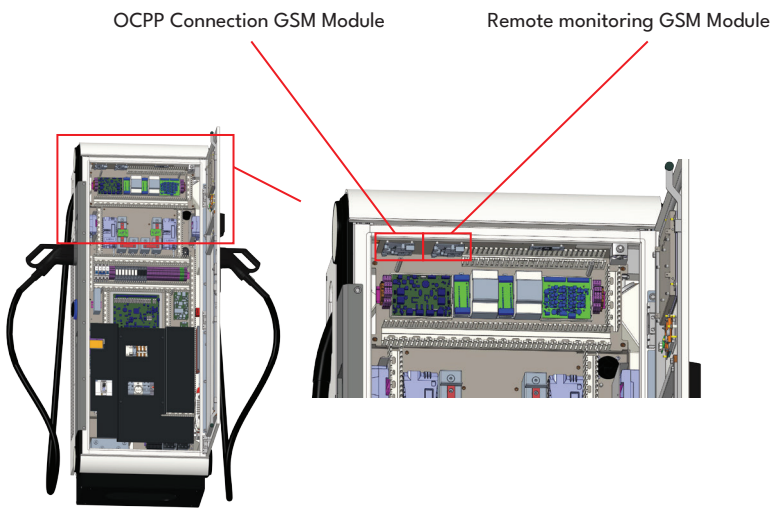
1	Line 1
2	Line 2
3	Line 3
4	PE
5	N

5. Tighten the cable glands with an adjustable wrench. (25Nm)

10.5.2 - SIM CARD CONNECTION (Optional)

See “Opening the front covers” section and insert the Micro SIM card into the cellular communication module SIM card slot as shown in the figure below.

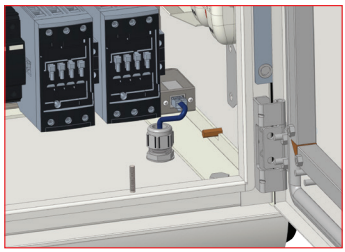
Ghost OCPP provides the communication between the charging station and the central system via a dedicated APN cellular network. With this system, the manufacturer will have the capability to remotely control any device that has been installed in the field and supported by Ghost OCPP at any time. Thus, controlling the instant status of the products, sending remote commands to the product (restarting the product, diagnostic message), usage data and logs related to the product will be accessible 24/7. With this process, device intervention and controls in the field can be performed quickly/effectively. Within the scope of Ghost OCPP, the manufacturer inserts the SIM card into the Ghost OCPP card and sends it to the field after activating. The management of the Ghost OCPP card is in the charge of the manufacturer.



10.5.3 - CONNECTING OCPP THROUGH ETHERNET NETWORK

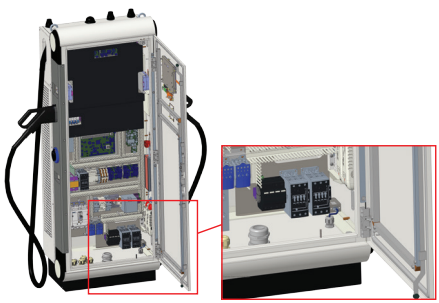
In order to connect your device to the internet over the cable and make the necessary adjustments, you must first prepare the ethernet cable and plug this cable into the locales that should be on the device.

Insert Ethernet cable through the cable gland. Terminate the Ethernet cable with RJ45 terminal and connect the cable to the Ethernet port as shown below.



10.5.4 - CONNECTING TO THE SAME NETWORK WITH THE ETHERNET PORT

To access the Web Config User Interface, you need to connect your PC and CV charger to the same ethernet switch or connect the EV charger directly to your PC.



Open the charging station. The default IP address of the HMI card is 192.168.0.10. Therefore, you need to assign a static IP address to your PC, which is on the same network as the HMI card.

You should assign a static IP address to your PC on the 192.168.0.0/254 network; The IP address should be between 192.168.0.1 and 192.168.0.254.

For instance, 192.168.0.11 can be assigned to your PC as a static IP.

Press the next button to continue.

10.5.5 - OPENING WEB CONFIGURATION INTERFACE WITH BROWSER

Open your web browser and type 192.168.0.10 which is IP address of HMI board.

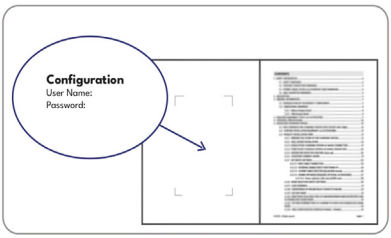
You will see login page on your browser;

Each product has a user name and password set as factory configuration.

In this section you can log in to the Web configuration interface by entering the configuration information printed on the label. User Name and Password informations are located on the label pasted to the first page of Installation Guideline as shown below.

Only for the first login you will be forced to change your password.

You can change password with Change Password Button in WEBUI login page or Administration Password section in the System Maintenance tab.



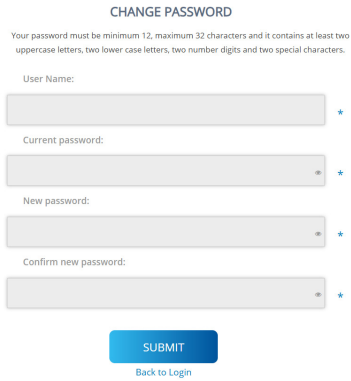
Visual representation is provided

Change Password:

If you click the “Change Password Button“ you will be redirected to the Change Password page.

Your password must be minimum 12 maximum 32 character and it contains at least two uppercase letters two lower case letters two number digits and two special characters.

After typing your current password and new password twice, you will be redirected to the login page again to log in with your new password.



10.5.6 - MAIN PAGE

After the successfully login operation, you are directed to the main page.

Main page shows the general information about the device that are software versions,connection interface and ids.

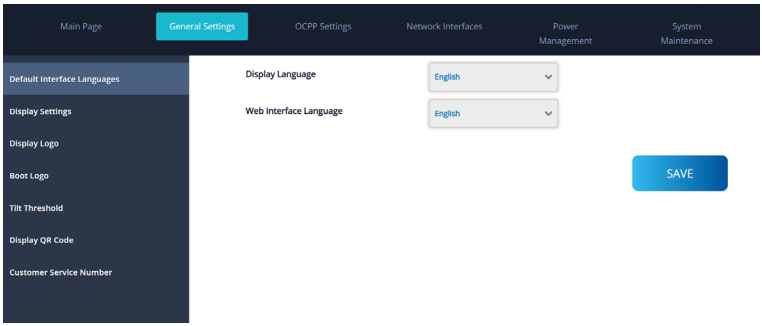
You can also change the language and log out of the web config with the buttons in the upper right corner of the page.

Figure Representation

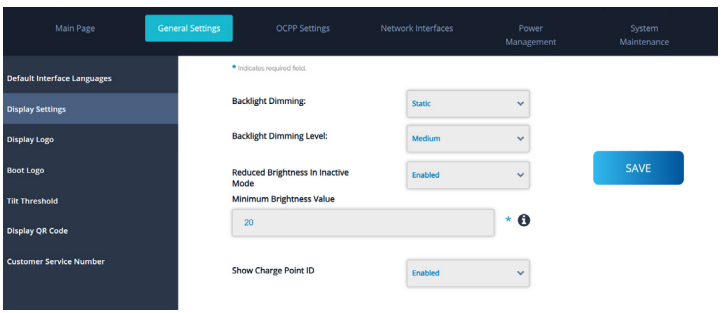
10.5.7 - GENERAL SETTINGS PAGE IN WEB CONFIG UI

10.5.7.1 - DEFAULT INTERFACE LANGUAGES

You can select HMI display language and web interface language from the general settings page.



10.5.7.2 - Display Settings



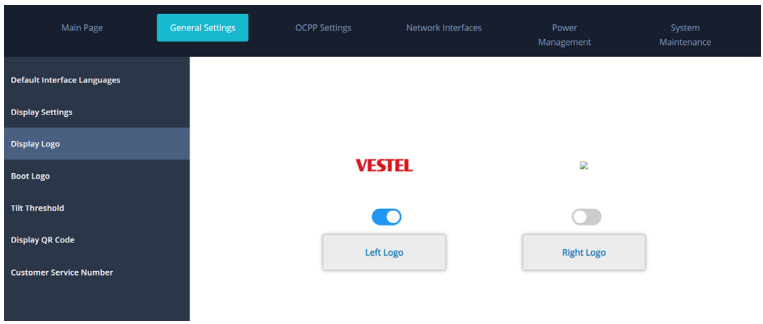
- **Static** - Set brightness/outdoor lighting to a fixed level, options include Low/Medium/High
- **Sensor Based** - Display brightness is changed based on given sensor value thresholds.

    - **medium threshold interval :** 0 - 65536
    - **high threshold interval :** 0 - 65536

Another option is Reduced Brightness In Inactive Mode.

10.5.7.3 - Display Logo

(Image is representative.)

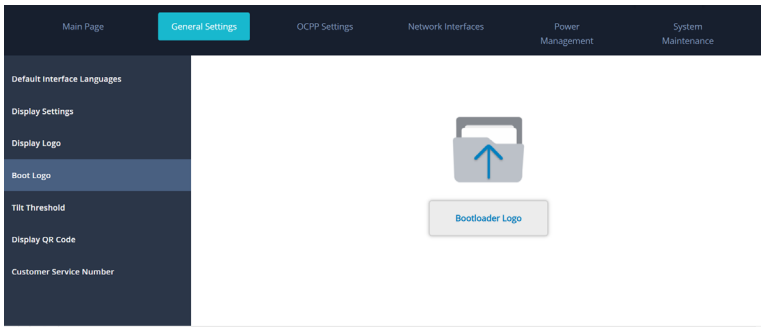


The user be able to load the right / left display logos to show on the UI App and be able to show and hide the logo using toggle button.

10.5.7.4 - Boot Logo

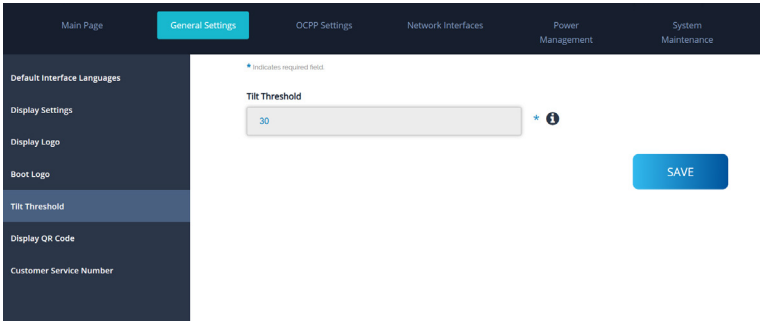
The details of Boot loader Logo

- File format should be BMP.
- Image dimensions should be 1024 X 768.



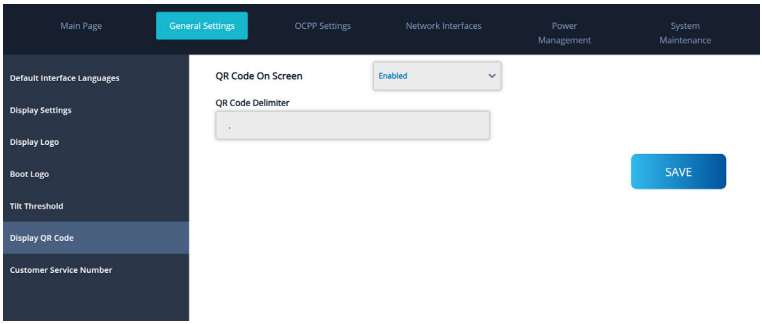
10.5.7.5 - Tilt Threshold

The user can change the tilt threshold in angle. The tilt threshold as an angle is set to 30 for all angles by default.
Tilt Threshold Range: 0 - 90



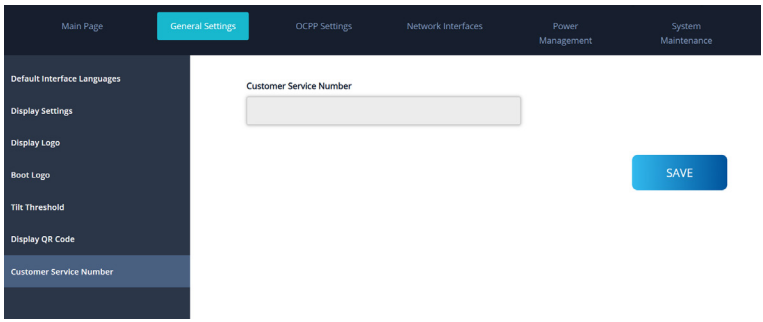
10.5.7.6 - Display QR Code

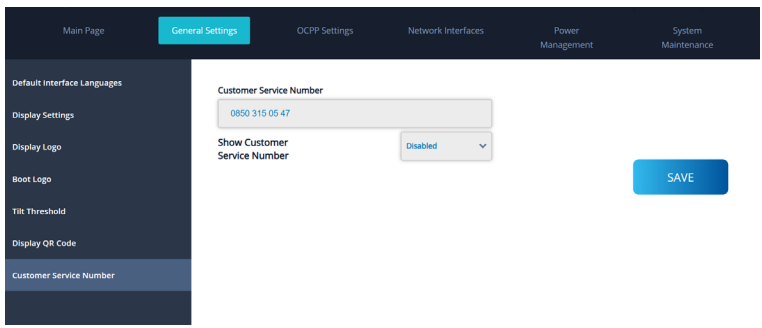
The user can update the QR Code Settings for each connector on the device. QR Code can be enabled/disabled and if enabled, a limiting value for the QR Code String can be set.



10.5.7.7 - Customer Service Number

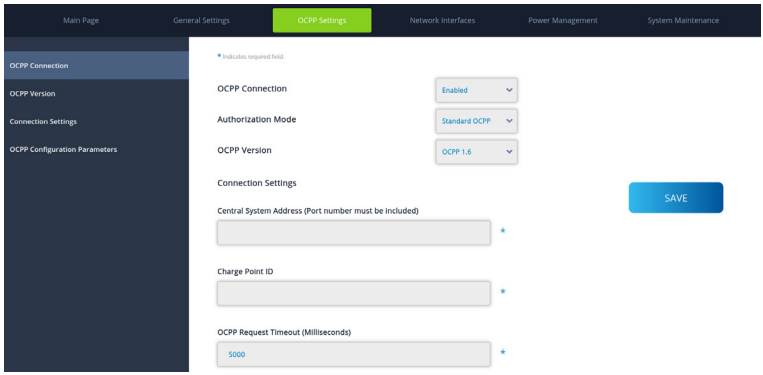
You can reach customer service number from web UI screen.

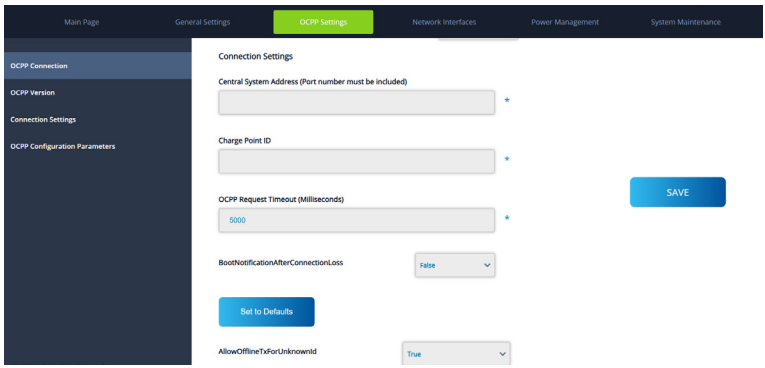




10.5.8 - OCPP SETTINGS

10.5.8.1 - OCPP Connection

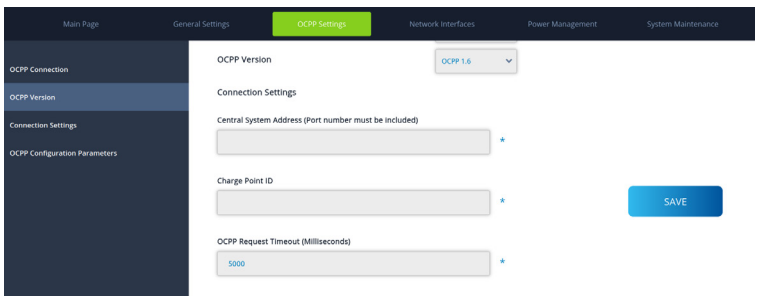




10.5.8.2 - OCPP Version

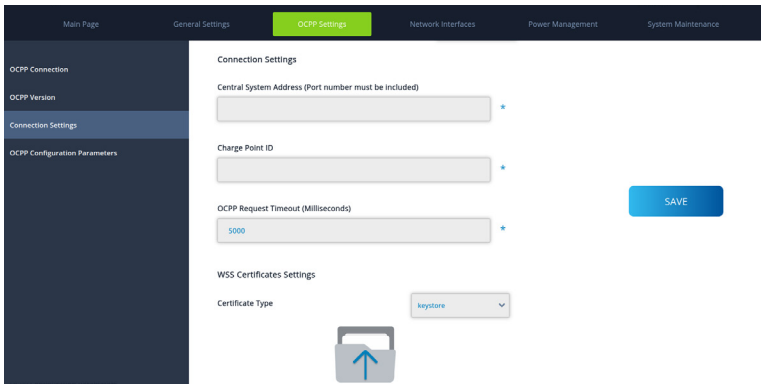
OCPP version can be changed, OCPP websocket and charge point id can be configured, OCPP connection can be enabled/disabled and authorization mode can be set, OCPP connection interface can be configured. Authorization modes are as follows:

True	Standart OCPP	Behaves as stated in the OCPP Spec.
True	Authorize-All	OCPP is enabled. Requires an IdTag to be presented, however does not check its integrity; it accepts all IdTags. Does not send the authorization, start and stop requests to the server. Does not permit the server to change related OCPP Configurations.
True	White-List	OCPP is enabled. Only accepts the IdTags that are preset; rejects others. Does not send authorization, start and stop requests to the server. Does not permit the server to change related OCPP Configurations.
True	Free Mode	This mode authorizes automatically (without IdTag). The preset IdTag is used for notifying the server related to transactions.
False	White-List	No OCPP connection. OCPP is enabled. Only accepts the IdTags that are preset; rejects others.
False	Authorize-All	No OCPP connection. Requires an IdTag to be presented, however does not check its integrity; it accepts all IdTags.



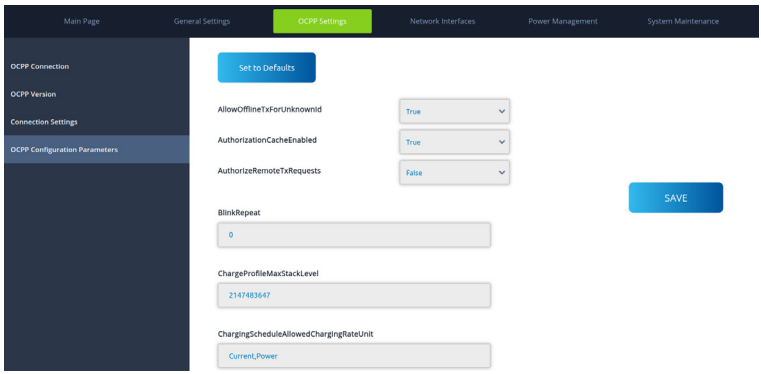
10.5.8.3 - Connection Settings

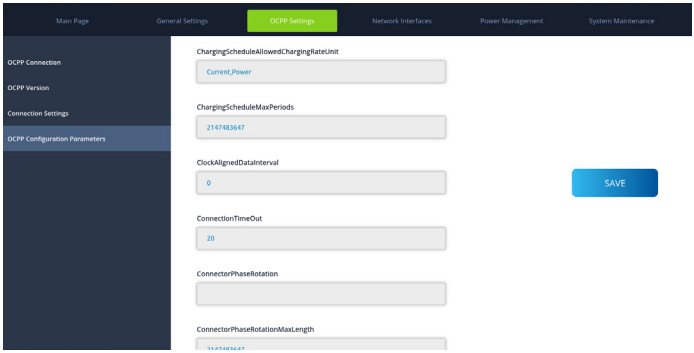
Central System Adress and Charge Point ID is required.

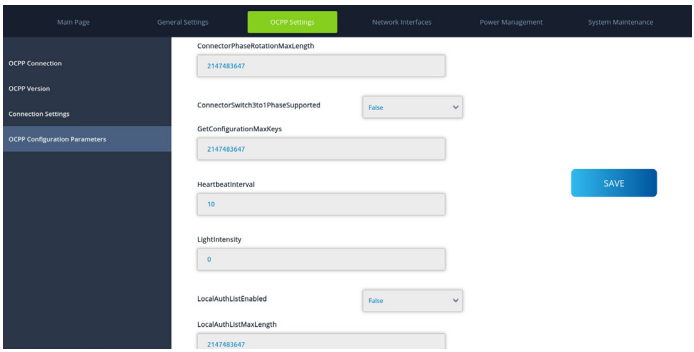


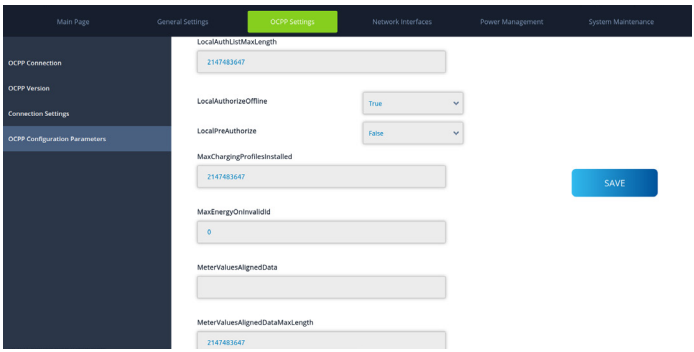
10.5.8.4 - OCPP Configuration Parameters

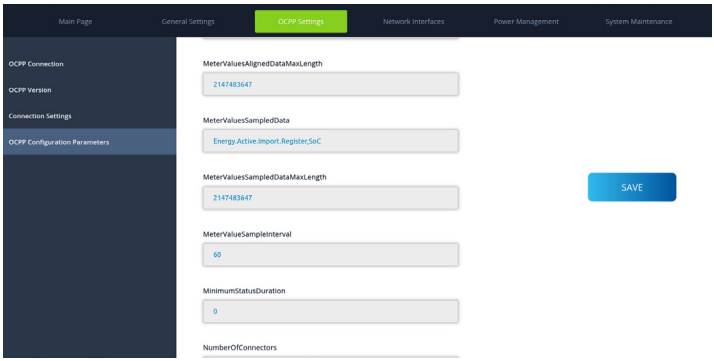
All OCPP configurations can be configured here.

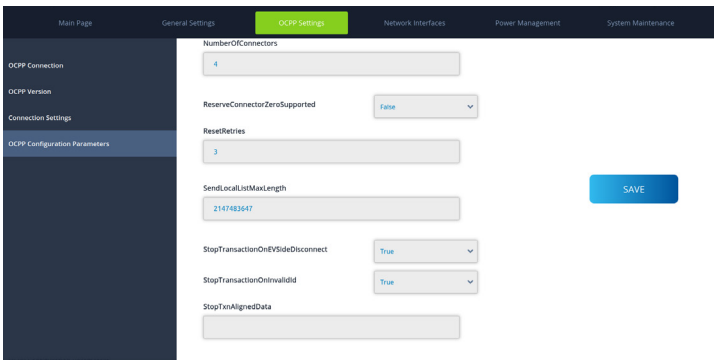


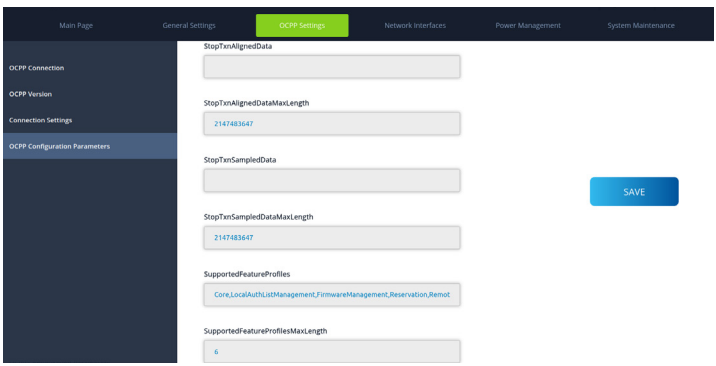


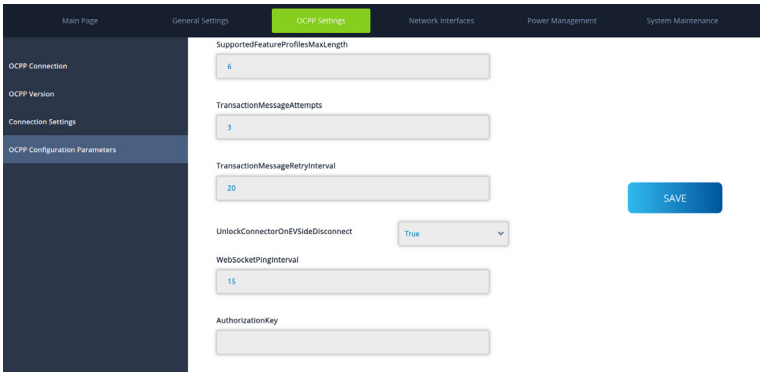


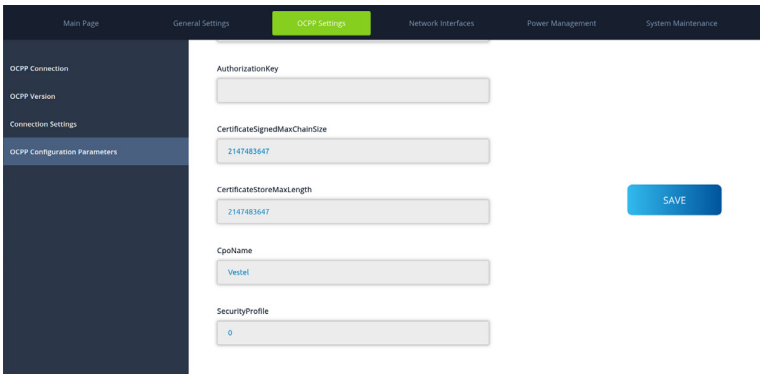


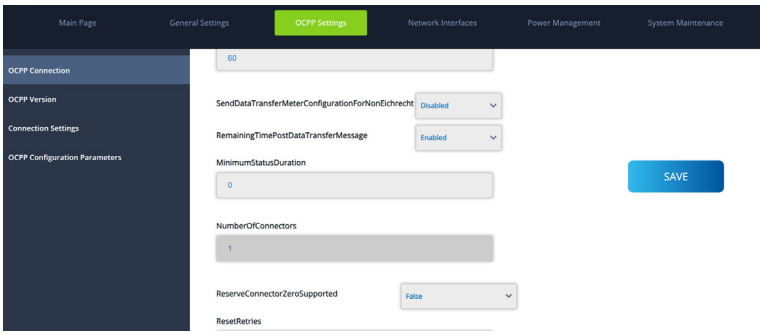






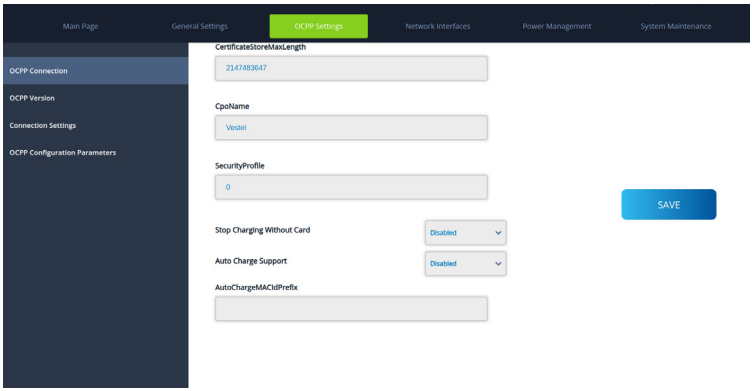






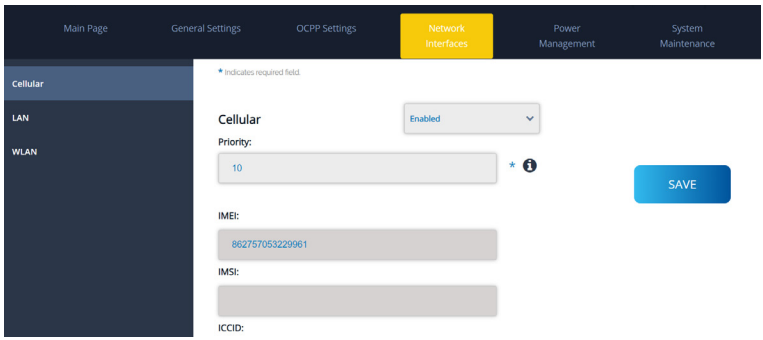
10.5.8.5 - Switching Auto Charge on/off (Optional)

“Auto Charge” feature is enabled (activated) by enabling “Auto Charge Support” from the OCPP Settings tab and entering and saving the vehicle MACid information. To deactivate, the “Auto Charge Support” tab is disable (deactivated).



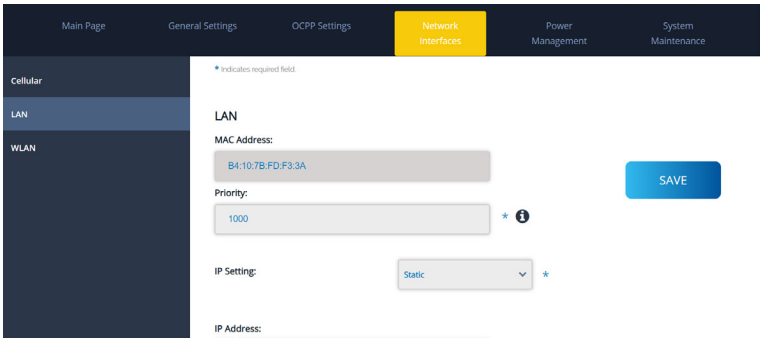
10.5.8.6 - NETWORK INTERFACES SETTINGS

CELLULAR

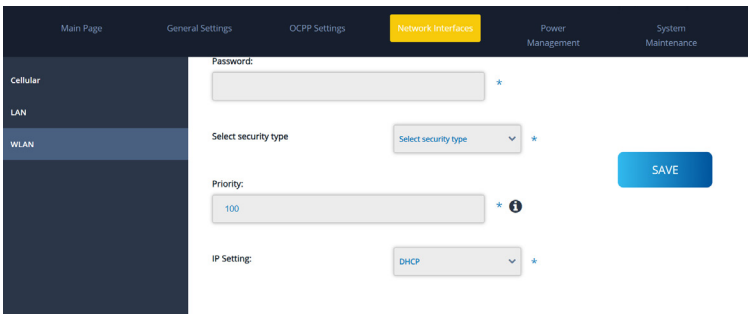


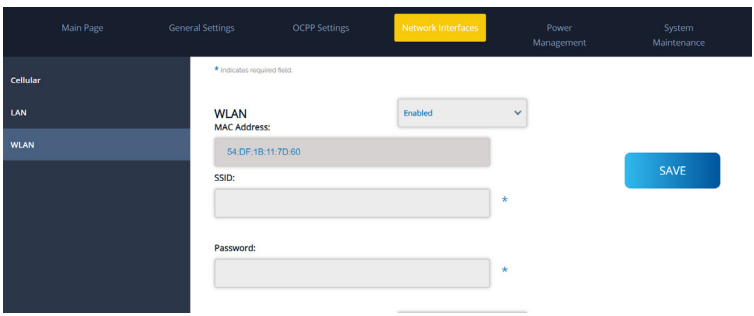
Cellular settings can be configured such as APN and pin number.

LAN



WLAN

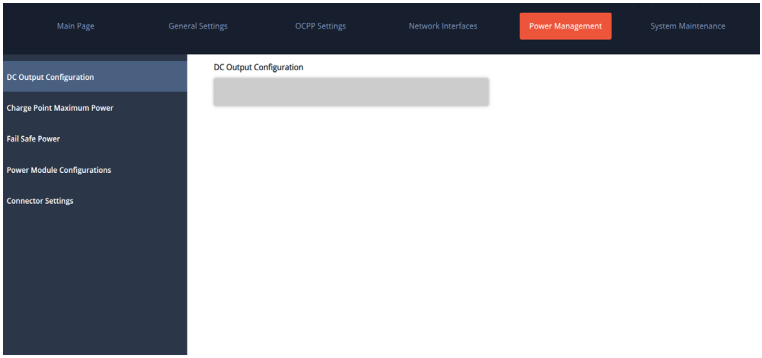




10.5.9 - POWER MANAGEMENT

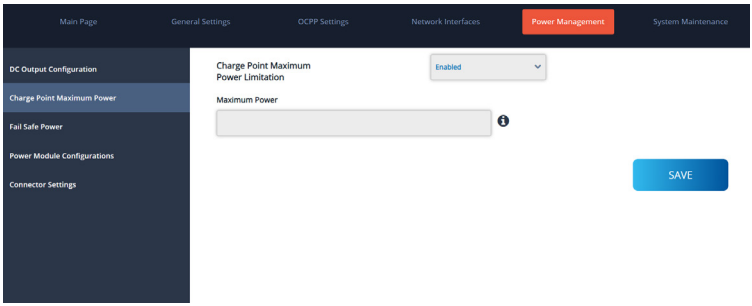
10.5.9.1 - DC Output Configuration

DC Output Configuration(deprecated-will be renamed as Model Code).



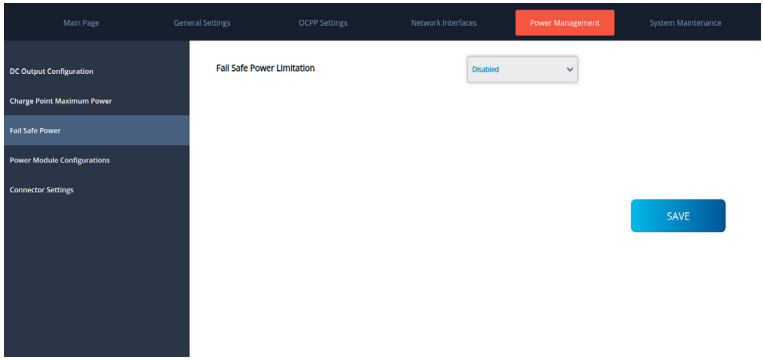
10.5.9.2 - Charge Point Maximum Power

Maximum Power value is used to set the maximum output power delivered from charging station.

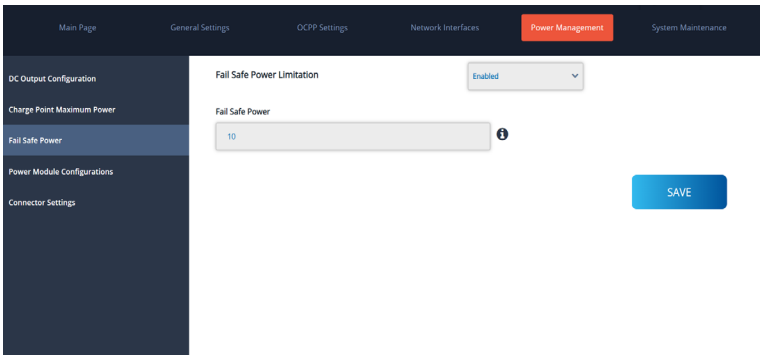


10.5.9.3 - Fail Safe Power

Fail Safe Power Limiting feature is used to limit the station output power when the OCPP Server connection is lost.

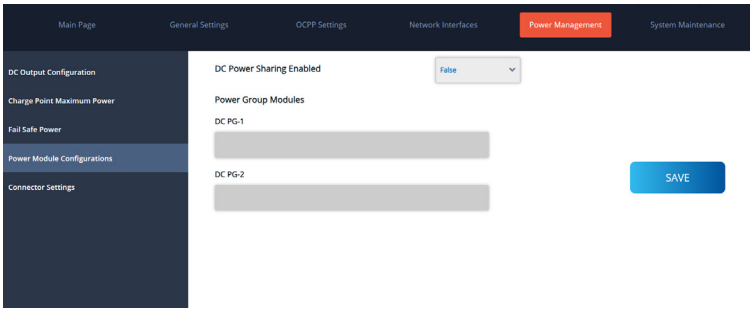


When feature is enabled, the user can set output power value. The default value is 10 kW.



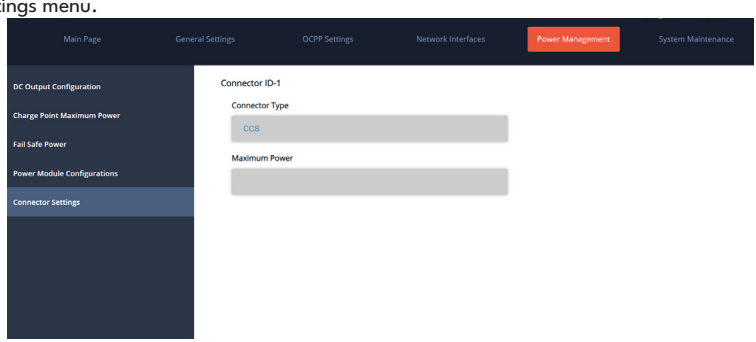
10.5.9.4 - Power Module Configurations

DC power sharing enabled option is used to allow CPO to decide if power sharing will be active for power modules.
Example: For a 60kW product which has 2 30kW power modules, if DC Power Sharing Enabled is set to True, 2 connectors will be available for charging at maximum of 30kW output. If it is set to False, Then only 1 connector will be available for charging and while one of the connectors is in charging state, other connector status will be set to Unavailable.



10.5.9.5 - Connector Settings

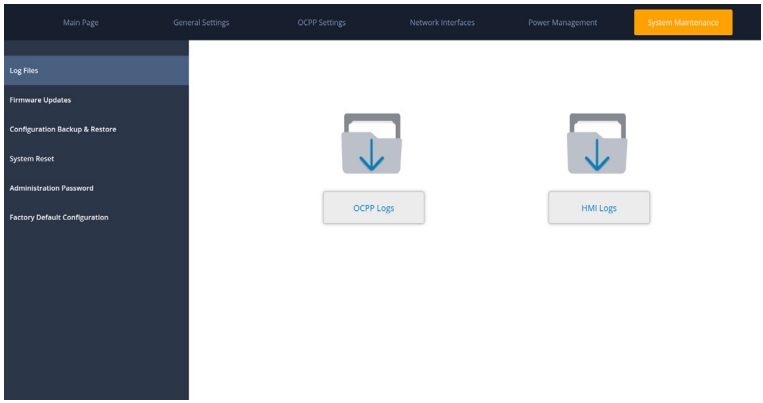
Connector type and corresponding maximum output power is displayed under Connector Settings menu.



10.5.10 - SYSTEM MAINTENANCE

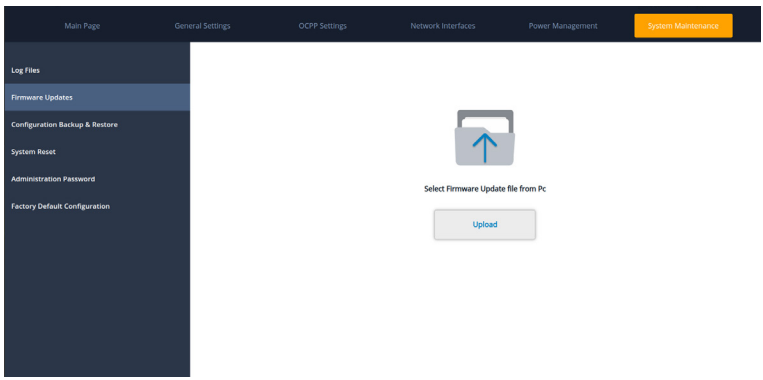
10.5.10.1 - Log Files

You can download the logs about the device from here.



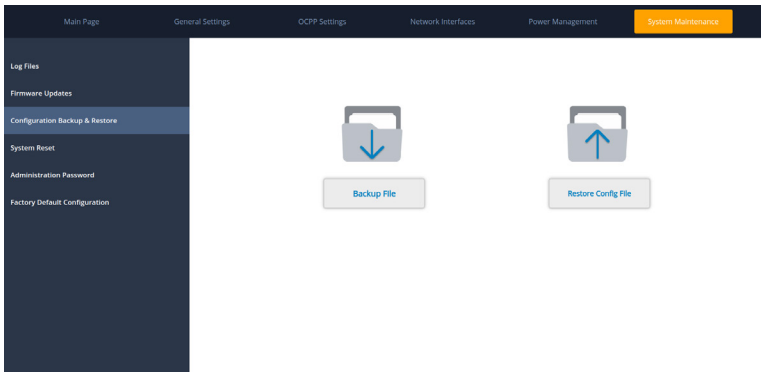
10.5.10.2 - Firmware Updates

The firmware file of device can uploaded then the software of device can upgraded.



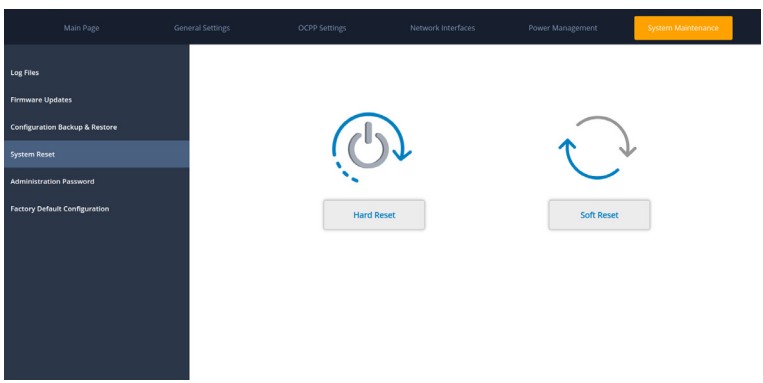
10.5.10.3 - Configuration Backup/Restore

The configurations related to device can backuped and restored here.



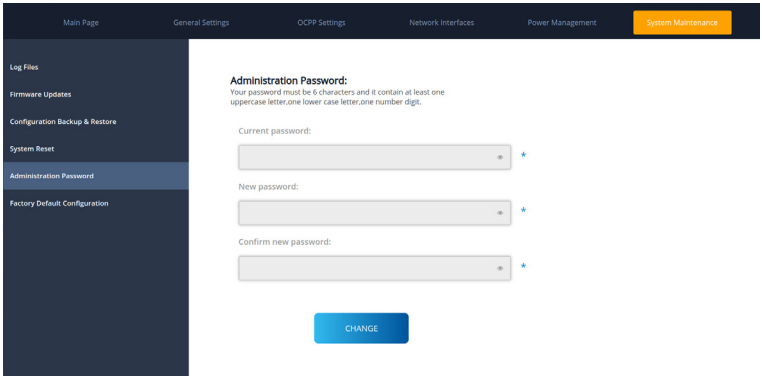
10.5.10.4 - System Reset

Hard or soft reset can applied to device here.



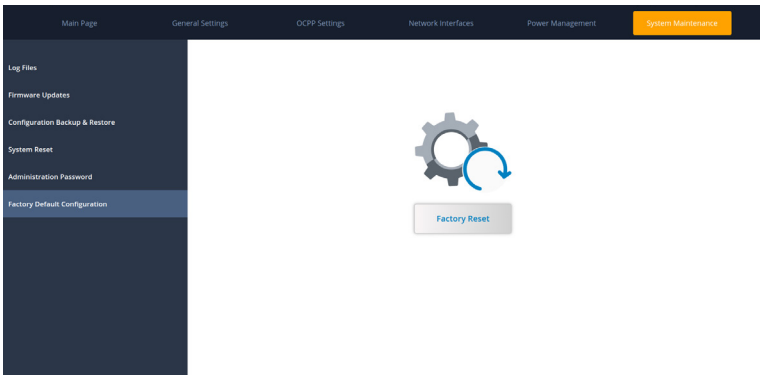
10.5.10.5 - Administration Password

The administrator password can changed here.



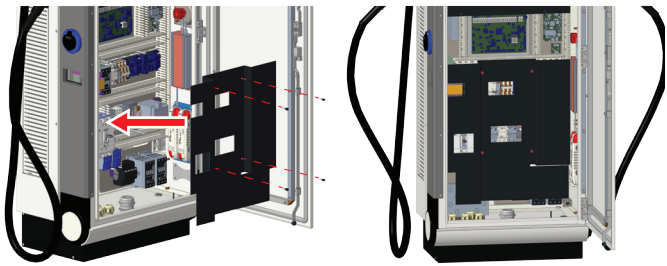
10.5.10.6 - Factory Default Configuration

Factory reset can applied to device here.

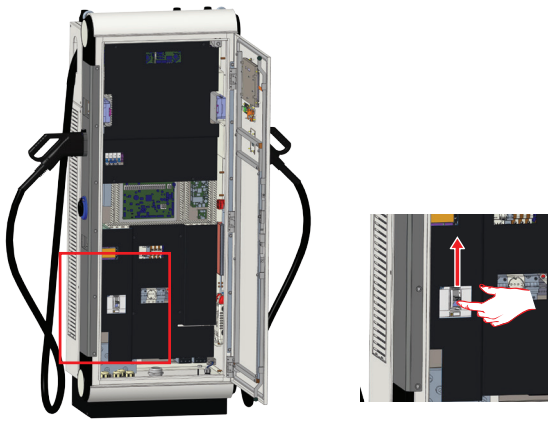


10.6 - CLOSING THE COVER

1. Place the (left and right) bottom plates and tighten the bolts. (torque value should be 3 Nm.)
2. Make sure the cables and plugs are not damaged.
3. Insert and tighten the screws of the insulation plate covering the AC Mains cable.



4. Switch the MCB on.



5. As shown in the “Opening the front covers” section, close the front cover of the product with the keys provided by turning the handle clockwise at a wide angle.

11 - PERIODIC MAINTENANCE LIST

	Maintenance Period (year)									
	1	2	3	4	5	6	7	8	9	10
Air filters	R	R	R	R	R	R	R	R	R	R
Plugs	I	I	I	I	I	I	I	I	I	I
Screen	C	C	C	C	C	C	C	C	C	C
Distribution elements (MCCB, MCB RCCB)	T	T	T	T	T	T	T	T	T	T
AC input terminals	T	T	T	T	T	T	T	T	T	T
Fan	I	I	I	I	I	I	I	I	I	I
DC relay terminals	T	T	T	T	T	T	T	T	T	T
DC output cable and terminals	T	T	T	T	T	T	T	T	T	T
Body	C	C	C	C	C	C	C	C	C	C
Grounding resistance	M	M	M	M	M	M	M	M	M	M

C : Clean
I : Inspect (check, approve, clean, tighten or replace if necessary)
M: Measure
T : Tighten
R : Review

Air filters
Air filters should be replaced every year when going for maintenance.

Plugs
All spark plugs should be checked when going for maintenance. If the plug is broken or cracked, it should be replaced. Furthermore, a charging test should be performed with all Plugs.

Screen
The screen should be checked by pressing the touch screen when going for maintenance. It can be controlled by pressing all the functions on the screen. If there is no problem with the touch-screen feature, the screen should be cleaned. Distribution elements (MCCB, MCB RCCB).

Distribution elements (MCCB, MCB RCCB) should be checked and tightened when going for maintenance. These elements can be tightened with a screwdriver with a torque of 2 Nm.

AC input terminals
The AC input terminals should be checked and tightened when going for maintenance These terminals should be tightened with a torque of 8 Nm for metric 8 bolts and 10 Nm for metric 10 bolts.

Fan
Fans should be checked when going for maintenance. In case of any breakage or damage, the damaged fan should be replaced. If there is no problem with the fans, a charging test should be performed. It should be checked whether the fans are rotating during this charging.

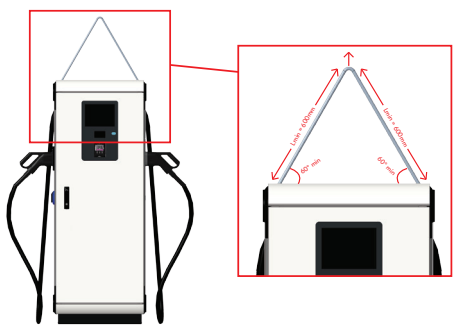
DC relay terminals
DC relay ends should be checked when going for maintenance. Tightening process should be performed with 6.5 Nm.

DC output cable and terminals
DC output cable and terminals should be checked when going for maintenance. They should be checked for any damage.

Body
The outer cabinet should be cleaned when going for maintenance.

Grounding resistance
A mechanism for measuring with a megger should be installed when going for maintenance. After the piles are driven, the voltage between the two piles should be less than 1V.

In cases where product transportation is required
During lifting, it is necessary to use 2 ropes of min 600mm (in case of using a single rope of L min=1200mm, the rope must be fixed from the middle lifting part).
During lifting, there should be a minimum angle of 60 degrees at both rope ends as shown in the image. Using a shorter sling will cause damage to the product.



12 - WIRELESS LAN TRANSMITTER SPECIFICATIONS

Frequency Ranges	Max Output Power
2400 - 2483,5 MHz (CH1 - CH13)	< 100 mW
5150 - 5250 MHz (CH36 - CH48)	< 200 mW **(*)**
5250 - 5350 MHz (CH52 - CH64)	< 200 mW **(*)**
5470 - 5725 MHz (CH100 - CH140)	< 200 mW **(*)**

(*) '< 100 mW' for the Ukraine

Country Restrictions

This Wireless LAN equipment is intended for home and office use in all EU countries, the UK and Northern Ireland (and other countries following the relevant EU and/or UK directive). The 5.15 – 5.35 GHz band is restrictions indoor operations only in in all EU countries, the UK and Northern Ireland (and other countries following the relevant EU and/or UK directive). Public use is subject to general authorisation by the respective service provider.

Country	Restriction
Russian Federation	Indoor use only
Israel	5 GHz band only for 5180 MHz-5320 MHz range

The requirements for any country may change at any time. It's recommended that user checks with local authorities for the current status of their national regulations for both 2.4 GHz and 5 GHz wireless LANs.

Hereby, Vestel Mobilite SAN. VE TİC. A.Ş., declares that the radio equipment type EVC is in compliance with Directive 2014/53/EU and Radio Equipment Regulations 2017. The full text of the EU declaration of conformity is available at the following address: doc.vosshub.com.

VESTEL

MOBILITY

VESTEL
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