



ELECTRIC VEHICLE CHARGER EVC03 HP SIRIUS SERIES

Installation Guideline





CONTENTS

1 - SAFETY INFORMATION	3
1.1 - SAFETY WARNINGS	3
1.2 - INSTRUCTIONS FOR DEALING WITH A FIRE AT ELECTRIC VEHICLE CHARGING STATION..	4
1.3 - GROUND CONNECTION WARNINGS	5
1.4 - POWER CABLES, PLUGS and CHARGING CABLE WARNINGS	5
1.5 - REQUIRED UPSTREAM PROTECTIONS	6
2 - DESCRIPTION.....	7
3 - GENERAL INFORMATION.....	8
3.1 - PRODUCT COMPONENTS INTRO	8
3.2 - DIMENSIONAL DRAWINGS	9
4 - REQUIRED EQUIPMENT, TOOLS and ACCESSORIES	10
4.1 - SUPPLIED INSTALLATION EQUIPMENTS and ACCESSORIES	10
4.2 - RECOMMENDED EQUIPMENTS and TOOLS.....	10
5 - ELECTRICAL SPECIFICATION	11
6 - USER INTERFACE & AUTHENTICATION.....	12
7 - CONNECTIVITY	13
8 - MECHANIC SPECIFICATIONS.....	13
9 - ENVIRONMENTAL TECHNICAL SPECIFICATIONS	13
10 - INSTALLING CHARGING STATION	14
10.1 - UNPACK CHARGING STATION	15
10.2 - FOUNDATION, ALIGNMENT & PLACEMENT	16
10.3 - OPENING SIDE COVERS	21
10.4 - CABLE INSTALLATION	22
10.4.1 - OPENING SIDE COVER AND CABLE CONNECTION	22
10.4.2 - SIM CARD CONNECTION	24
10.4.3 - CONNECT OCPP OVER ETHERNET	25
10.4.4 - CONNECT PC TO THE SAME NETWORK WITH HMI BOARD	25
10.4.5 - OPENING WEB CONFIGURATION INTERFACE WITH BROWSER	26
10.4.6 - MAIN PAGE	27
10.4.7 - GENERAL SETTINGS PAGE IN WEB CONFIG UI.....	28
10.4.7.1 - Default Interface Languages	28
10.4.7.2 - Display Settigns.....	28
10.4.7.3 - Display Logo	29
10.4.7.4 - Boot Logo.....	29
10.4.7.5 - Tilt Threshold	30
10.4.7.6 - Display QR Code.....	30
10.4.7.7 - Customer Service Number	30

10.4.8 - OCPP SETTINGS	31
10.4.8.1 - OCPP Connection	31
10.4.8.2 - OCPP Version	32
10.4.8.3 - Connection Settings	33
10.4.8.4 - OCPP Configuration Parameters	33
10.4.8.5 - Switching Auto Charge on/off (Optional).....	37
10.4.8.6 - Network Interfaces.....	37
10.4.9 - POWER MANAGEMENT	39
10.4.9.1 - DC Output Configuration	39
10.4.9.2 - Charge Point Maximum Power	39
10.4.9.3 - Fail Safe Power.....	40
10.4.9.4 - Power Module Configurations	41
10.4.9.5 - Connector Settings	41
10.4.10 - SYSTEM MAINTENANCE	42
10.4.10.1 - Log Files	42
10.4.10.2 - Firmware Updates	42
10.4.10.3 - Configuration Backup & Restore	43
10.4.10.4 - System Reset	43
10.4.10.5 - Administration Password.....	44
10.4.10.6 - Factory Default Configuration	44
10.5 - CLOSE COVER	45
11 - PERIODIC MAINTENANCE LIST	46
12 - WIRELESS LAN TRANSMITTER SPECIFICATIONS	48

1 - SAFETY INFORMATION



CAUTION RISK OF ELECTRIC SHOCK



CAUTION: ELECTRIC VEHICLE CHARGER DEVICE SHALL BE MOUNTED BY A LICENSED OR AN EXPERIENCED ELECTRICIAN AS PER ANY REGIONAL OR NATIONAL ELECTRIC REGULATIONS AND STANDARDS IN EFFECT.



CAUTION



AC grid connection and load planning of the electric vehicle charging device shall be reviewed and approved by authorities as specified by the regional or national electric regulations and standards in effect. For multiple electric vehicle charger installations the load plan shall be established accordingly. The manufacturer shall not be held liable directly or indirectly for any reason whatsoever in the event of damages and risks that are borne of errors due to AC grid supply connection or load planning.



IMPORTANT!! For products without emergency button;

If any suspicion or emergency occurs at the charging station other than normal operation, stop charging via the vehicle (key or button inside the vehicle depending on the vehicle model) and pull the plug as the first option. As a second option, switch off the MCB or RCCB in the panel energised to the product by the installation company.

IMPORTANT - Please read these instructions fully before installing or operating

1.1 - SAFETY WARNINGS

- Keep this manual in a safe place. These safety and operating instructions must be kept in a safe place for future reference.
- Check that the voltage marked on the rating label and do not use charging station without appropriate mains voltage.
- Do not continue to operate the unit if you are in any doubt about it working normally, or if it is damaged in any way - switch off the mains supply circuit breakers (MCCB and RCCB) in upstream distribution panel. Consult your local dealer.
- The ambient temperature range during charging should be between -35°C and $+55^{\circ}\text{C}$ (without direct sunlight) and at a relative humidity of between 5 % and 95 %. Use the charging station only within these specified operating parameters.
- The device location should be selected to avoid excessive heating of the charging station. High operating temperature caused by direct sunlight or heating sources, may cause reduction of charging current or temporary interruption of charging process.
- The charging station is intended for outdoor and indoor use. It can also be used in public places.

- To reduce the risk of fire, electric shock or product damage, do not expose this unit to severe rain, snow, electrical storm or other severe weathers. Moreover, the charging station shall not be exposed to spilled or splashed liquids.
- Do not touch end terminals, electric vehicle connector and other hazardous live parts of the charging station with sharp metallic objects.
- Avoid exposure to heat sources and place the unit away from flammable, explosive, harsh, or combustible materials, chemicals, or vapors.
- Risk of Explosion. This equipment has internal arcing or sparking parts which should not be exposed to flammable vapors. It should not be located in a recessed area or below floor level.
- This device is intended only for charging vehicles not requiring ventilation during charging.
- To prevent risk of explosion and electric shock, ensure that the specified Circuit Breaker and RCD are connected to building grid.
- Charging Station bottom must be at (or above) the ground level.
- Adaptors or conversion adapters are not allowed to be used. Cable extension sets are not allowed to be used.
- The allowed current value of the service socket is maximum 10A.



WARNING: Never let people (including children) with reduced physical, sensory or mental capabilities or lack of experience and or knowledge use electrical devices unsupervised.



CAUTION: This vehicle charger unit is intended only for charging electric vehicles not requiring ventilation during charging.

1.2 - INSTRUCTIONS FOR DEALING WITH A FIRE AT ELECTRIC VEHICLE CHARGING STATION

- **Personal Safety:** If you notice a fire or signs of danger, your own safety is the most important. Do not take risks.
- **Immediate Notification of Emergency Services:** Contact the appropriate emergency services in your region. Dial 998 or 112 the emergency number.
- **Discontinuing Charging:** If safe to do so, disconnect the charging cable from the vehicle and the charging station.
- **Use of Fire Extinguishing Agents:** If a fire extinguisher or other fire-fighting equipment is nearby and you are trained to use them, attempt to extinguish the fire. However, never risk your own safety.
- **Avoid Direct Contact with the Fire:** Do not attempt to extinguish the fire if you do not have the appropriate equipment or knowledge, or if the fire is too large or dangerous.
- **Move Away from the Station:** If the fire is uncontrolled or growing in strength, move away from the charging station while maintaining a safe distance.
- **Avoid Inhaling Smoke:** Try to avoid inhaling smoke. If possible, cover your nose and mouth with a damp cloth or clothing.
- **Warn Others in the Area:** Inform others in the vicinity about the fire hazard and encourage them to leave the area.

- **Wait for Emergency Services:** After safely leaving the area, wait for the arrival of emergency services at a location that is safe for you.
- **No Return to the Station Premises:** Do not return to the charging station premises until the emergency services have completed their operation.
- **Reporting the Incident:** Contact customer support to report the incident.

Remember, safety is paramount. In the event of a fire, always consult with local emergency services and follow their instructions.

1.3 - GROUND CONNECTION WARNINGS

- Charging station must be connected to a centrally grounded system. The ground conductor entering the charging station must be connected to the equipment grounding lug inside the charger. This should be run with circuit conductors and connected to the equipment grounding bar or lead on the charging station. Connections to the charging station are the responsibility of the installer and purchaser.
- To reduce the risk of electrical shock, connect only to properly grounded outlets.
- **WARNING :** Make sure that during installing and using, the charging station is constantly and properly grounded.

1.4 - POWER CABLES, PLUGS and CHARGING CABLE WARNINGS

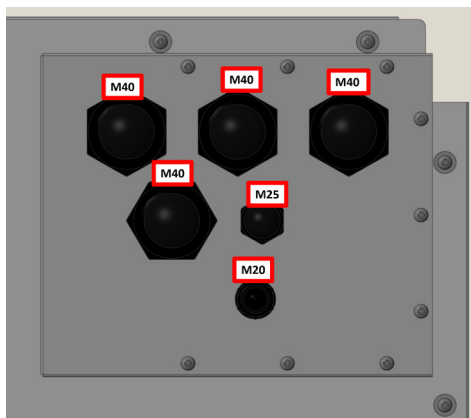
- Be sure that plugs and sockets are compatible on charging station side.
- A damaged charging cable can cause fire or give you an electric shock. Do not use this product if the flexible Charging cable or vehicle cable is frayed, has broken insulation, or shows any other signs of damage.
- Ensure that the charge cable is well positioned thus; it will not be stepped on, tripped over, or subjected to damage or stress.
- Do not forcefully pull the charge cable or damage it with sharp objects.
- Never touch the power cable/plug or vehicle cable with wet hands as this could cause a short circuit or electric shock.
- To avoid a risk of fire or electric shock, do not use this device with an extension cable. If the mains cable or vehicle cable is damaged it must be replaced by the manufacturer, its service agent, or similarly qualified persons in order to avoid a hazard.
- Use appropriate protection when connecting to the main power distribution cable.

1.5 - REQUIRED UPSTREAM PROTECTIONS

- Class-I/B Lightning Protection must be connected to the upstream distribution panel. Min. cable length between the charger and the protection device recommended to be 10m. *The charger contains Class II/C Type Surge Protector Device (SPD).
- MCCB (Thermic Magnetic Adjustable) must be connected to the upstream distribution box.
- Residual Current Device (Toroid) must be connected to the upstream cabinet.
- Single pole 20A MCB must be placed in the upstream cabinet, on the neutral line.

Model	Power output	Input Voltage	Input AC Current	Recommended Cross Section Values L1-L2-L3 (mm ²) - (Copper Conductor Cable)	Recommended Cross-Section Value for Neutral (mm ²) - (Copper Conductor Cable)	Recommended Cross-Section Value for PE (mm ²) - (Copper Conductor Cable)
EVC03-DC HP160**(UP) (Air cooled)	160kW	400V (nom.)	370A	240	16	240
		360V (-%10)	410A			
EVC03-DC HP240** (Air cooled)	240kW	400V (nom.)	370A	240	16	240
		360V (-%10)	410A			

NOTE!!! : If it is planned to upgrade the product to 240kW in 160kW installations, the infrastructure installation should be made according to the 240kW power table values above.



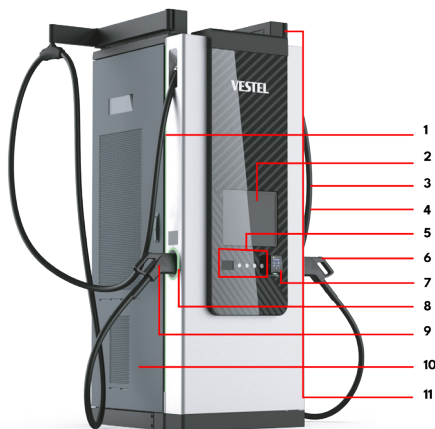
NOTE!! : The mounting plate and glands given in the image are factory output according to 240kW power. According to the product power to be preferred in the installations, the mounting plate revisions due to the cable cross-section belong to the customer.

2 - DESCRIPTION

Model Name	<p>EVC3-HP Series (Name Coding: EVC03-HP*****)</p> <p>1st Asterisk (*) : Rated Power 160 : 160 kW DC Power Output (Upgradeable) 240 : 240 kW DC Power Output</p> <p>2nd Asterisk (*) : DC output combination 1 C : CCS Output (Air cooled cable)</p> <p>3rd Asterisk (*) : DC output combination 2 C : CCS Output (Air cooled cable)</p> <p>4th Asterisk (*) : Blank : No DC Meter EICH : Eichrecht Meter</p> <p>5th Asterisk (*) : VE : Vestel Edition</p>
Cabinet	EVC03HP240VE

3 - GENERAL INFORMATION

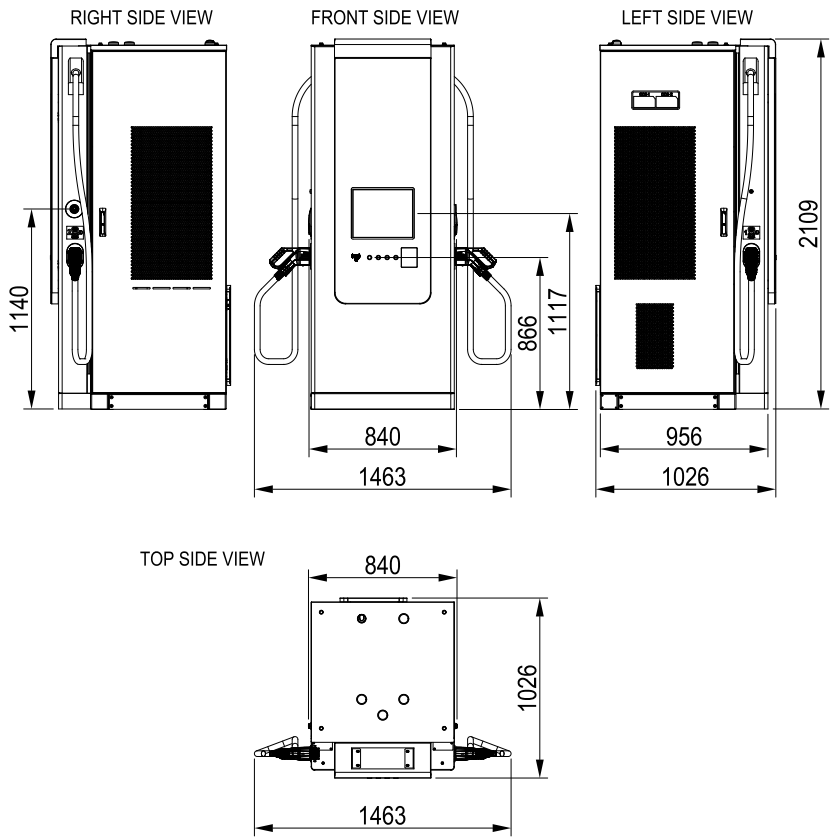
3.1 - PRODUCT COMPONENTS INTRO



- 1- LED
- 2- Display
- 3- Access cover for fans, relays and main power button
- 4- Emergency Button
- 5- RFID Card Reader, Buttons
- 6- DC Outlet
- 7- Payment Terminal (optional)
- 8- CCS Dummy Socket
- 9- DC Outlet
- 10- Access cover for CTB, PLC Board and HMI, Power Modules
- 11- Cable Management (optional)




All products images are given for as a representative

3.2 - DIMENSIONAL DRAWINGS















4 - REQUIRED EQUIPMENT, TOOLS and ACCESSORIES

4.1 - SUPPLIED INSTALLATION EQUIPMENTS and ACCESSORIES

Special Spanner M50 x M40	
Flange M12 Bolts x4	
1 set (x2) Lock Keys	

4.2 - RECOMMENDED EQUIPMENTS and TOOLS

			
Ø20 Drill Bit	Impact Drill	PC	Philips Screwdriver
			
RJ45 Crimping Tool	Cat5e or cat6 ethernet cable	Spanner set	Hammer
			
M20 Steel Expansion Bolt x4	RJ45 Male Connector	T25 Screwdriver	20 - 200 Nm D: 40mm H: 43mm

5 - ELECTRICAL SPECIFICATION

IEC Protection class		Class - I
Power Input	Input Rating	<ul style="list-style-type: none"> • 400 Vac $\pm 10\%$, 50/60 Hz, 370A / phase- (160UP/240 kW option)
	Connection	3P - N - PE
	Residual Current Monitoring	230Vac RCBO 1P+N, Type A, 30mA-16A (system)
	Power Factor	> 0.99
	Efficiency	> % 95
	Standby Power	< 110W
Output - 1 CSS	Max Power	160/240kW options <ul style="list-style-type: none"> • 1 x 160kW or 1 x 240kW • 2 x 80kW or 2 x 120kW
	Voltage Range	200 – 920 Vdc
	Maximum Current	160/240kW option Air cooled cable variants available, derating may be applied. 300A continuous, up to 500A with air cooled cable <ul style="list-style-type: none"> • 1 x 160kW or 1 x 240kW • 2 x 80kW or 2 x 120kW
	Interface Compliance	IEC 62196-1 / 3 IEC 62196-3-1 IEC 61851-1 / 23 / 24 ISO 15118-1 / 2 / 3 DIN 70121

Output - 2 CSS	Max Power	160/240kW options <ul style="list-style-type: none"> • 1 x 160kW or 1 x 240kW • 2 x 80kW or 2 x 120kW
	Voltage Range	200 – 920 Vdc
	Maximum Current	160/240kW option Air cooled cable variants available, derating may be applied. 300A continuous, up to 500A with air cooled cable <ul style="list-style-type: none"> • 1 x 160kW or 1 x 240kW • 2 x 80kW or 2 x 120kW
	Interface Compliance	IEC 62196-1 / 3 IEC 62196-3-1 IEC 61851-1 / 23 / 24 ISO 15118-1 / 2 / 3 DIN 70121
Internal Protections		Residual current sensing, Insulation monitoring, Over current / Over voltage / Under voltage / Short circuit / Over Temperature / Surge Protection

6 - USER INTERFACE & AUTHENTICATION

Display	17" Color TFT LCD
User Interface	Resistive Touch Screen
RFID Reader Module	ISO-14443A/B and ISO-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/

7 - CONNECTIVITY

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

8 - MECHANIC SPECIFICATIONS

Material	Metal Panel	
Protection Degree	Ingress Protection	IP54
	Impact Protection	IK10
Cooling	Forced Air Cooling Fan	
Cable Length	CCS: 4.50 m	
	CCS: 4.50 m	
Dimensions (Product)	2109 mm (Height) x 840mm (Width) x 1026 mm (Depth)	
Dimensions (with packing)	2300.0 mm (Height) x 1000.0 mm (Width) x 1090.0 mm (Depth)	
Weight (Product)	636 kg	
Weight with Package	828,5 kg with packing	

9 - ENVIRONMENTAL TECHNICAL SPECIFICATIONS

Operating Condition	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
Storage Condition	Temperature	-40 °C to 80 °C
	Humidity	5% - 95% (relative humidity, non-condensing)

If the product is kept de-energised in a cold environment ($t < -20^{\circ}\text{C}$), it must be allowed to warm up for a certain period of time before the current is drawn.

10 - INSTALLING CHARGING STATION

Screws inside the product are recommended to be exceeding 240 hours Salt Fog test under ASTM B117 Method. Screws outside the product are recommended to be exceeding 720 hours.



WARNING: RISK OF ELECTRICAL SHOCK AND INJURY. POWER OFF THE CHARGING STATION MAIN SUPPLY BEFORE ANY INSTALLATION STEPS.



WARNING: TO AVOID PERSONAL INJURY OR DAMAGE THE CHARGING STATION, ENSURE THE INSTALLATION AREA IS SUITABLE AND THE FLOOR CAN WITHSTAND THE WEIGHT OF THE CHARGING STATION.

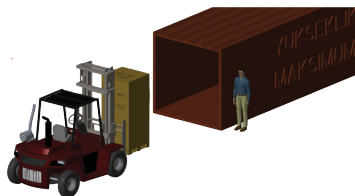
10.1 - UNPACK CHARGING STATION

Unpack the charging station as shown in figures below.

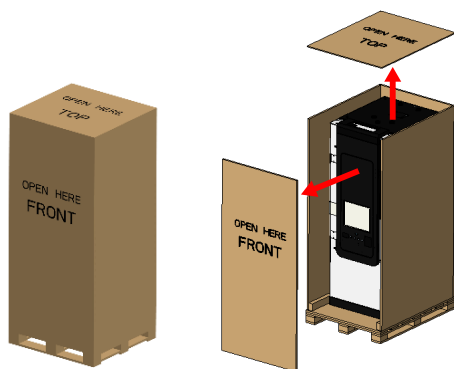
Note that, front and top covers are marked as shown in the figures.



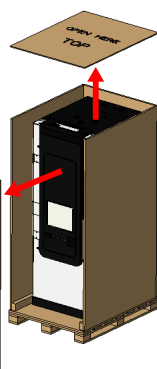
Step.1



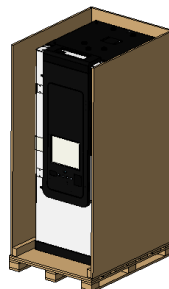
Step.2



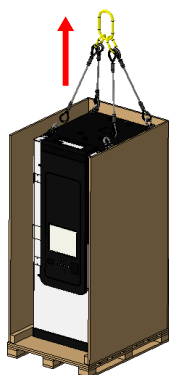
Step.3



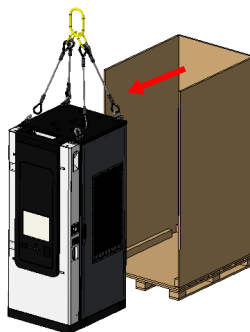
Step.4



Step.5



Step.6



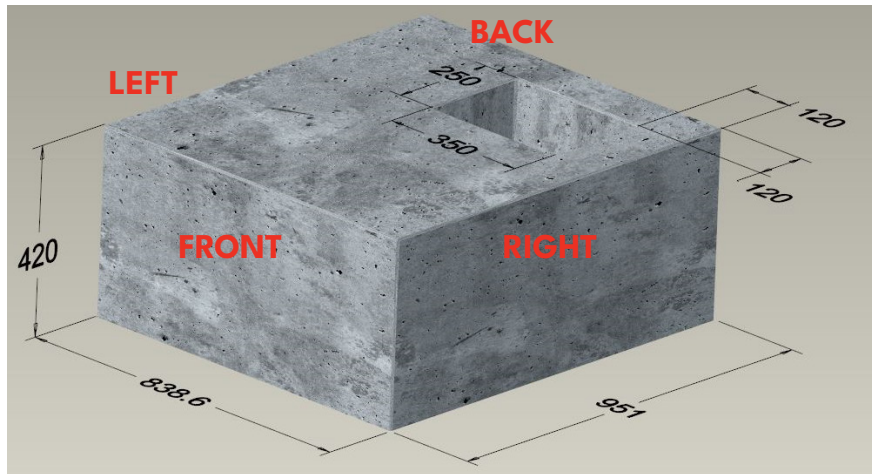
Step.7

All products images are given for as a representative

10.2 - FOUNDATION, ALINGMENT & PLACEMENT

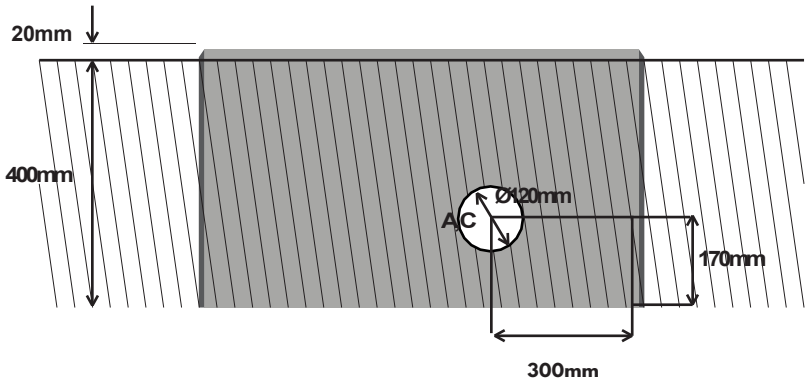
The concrete foundation dimensions are shown as below:

CONCRETE FOUNDATION

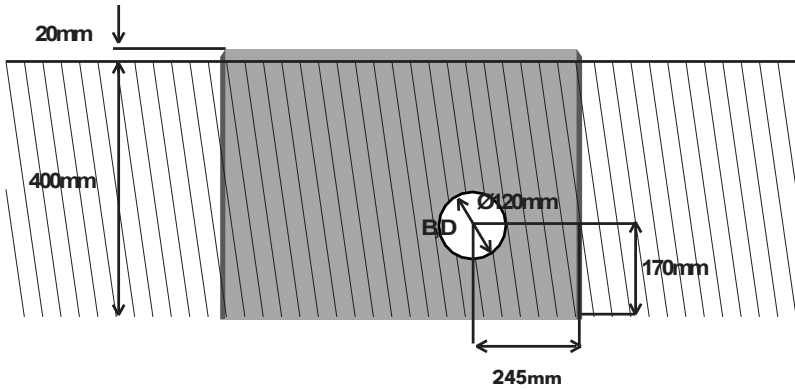


1. Dig a foundation pit in the ground according to the dimensions of the concrete foundation shown at Figure.
2. For installation, a minimum distance of 1 meter must be left from the right side, left side and rear side of the device.
3. Make the rectangular hole for cables which come from main supply (3P+N+PE and Communication) on the concrete foundation from top to bottom. The dimensions and the position on the concrete foundation are shown at Figure.
4. Make the cable duct on the concrete foundation. There are 4 cable duct options according to the direction from main supply. The cable duct can be at one of the right(A), left(C), front(B) and back(D) side of the concrete foundation. For these 4 options; The position and diameter of the cable duct are shown at Figure.
5. The top surface of the foundation must be at least 20 cm above the ground.

FRONT BACK VIEW

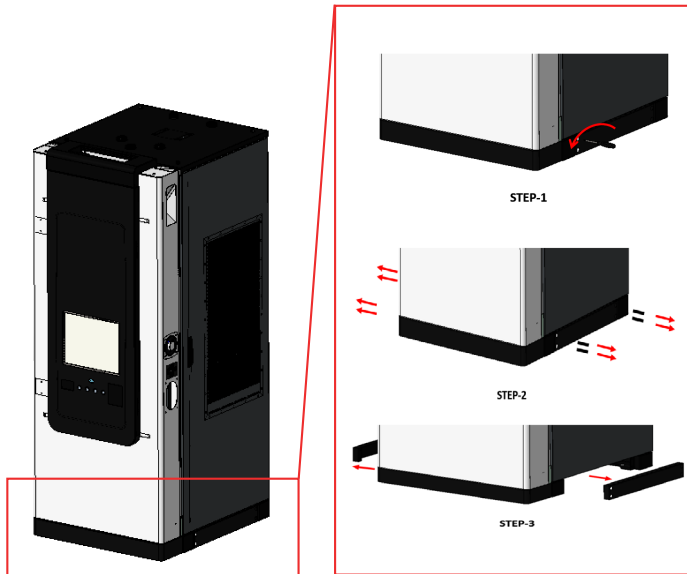


LEFT RIGHT VIEW



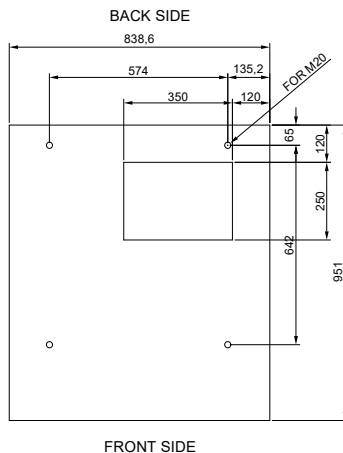
(All options of cable ducts A,B,C and D are shown)

6. Open the right side cover of the product using the keys provided by turning the handle counterclockwise with wide angle.
7. The cable length of 80 cm should be available above the foundation for cable assembly in cabinet. Figure below.
8. Drill 4 holes on the concrete foundation with dimensions shown at Figure below and tap M20x170 mm expansion bolt in these holes stated as shown at Figure below.
9. Remove the (left and right) bottom side plates by unscrewing the plates.



All products images are given for as a representative

10. Lift the charging station by lifting eyebolts and place the station on the concrete foundation such that the base holes of the charger are aligned with these expansion bolts in figure below. Tighten the expansion bolts with nuts. The type of expansion bolts used are shown at Figure below.

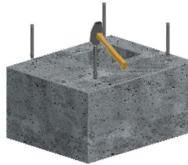




M20



Step.1



Step.2



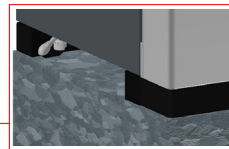
Step.3



Step.1

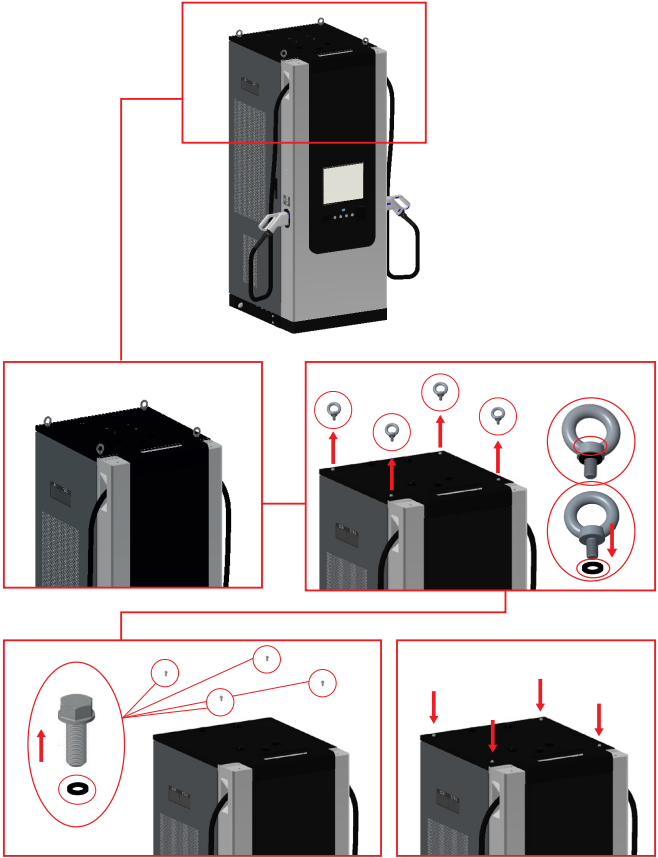


Step.2



All products images are given for as a representative

11. Remove the eyebolts after placement of the charging station. Plug the bolts with the washers.

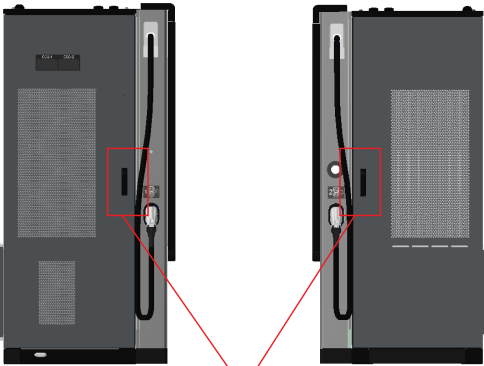


All products images are given for as a representative

You can continue following “Cable Installation” steps.

10.3 - OPENING SIDE COVERS

Use the key provided to unlock the side cover.
Pull the handle slightly up. Turn the handle through the back side of the charging station with wide-angle.



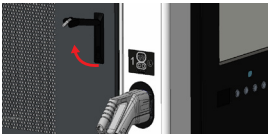
Step.1



Step.2



Step.3



Step.4



Step.5



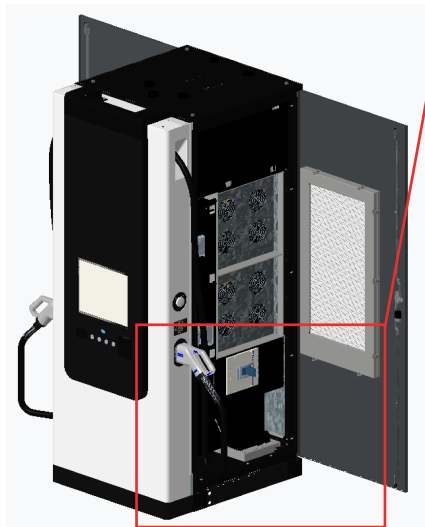
Step.6

All products images are given for as a representative

10.4 - CABLE INSTALLATION

10.4.1 - OPENING SIDE COVER AND CABLE CONNECTION

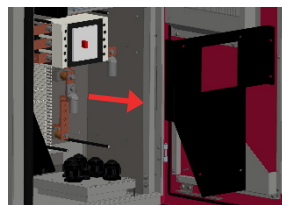
- 1- Open the right side cover of the product using the keys provided by turning the handle counterclockwise with wide angle.
- 2- Remove the screws and isolator plate covering the AC Mains cable in the bottom right corner.



Step.1



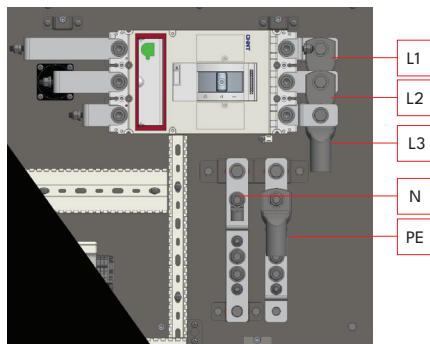
Step.2



Step.3

Crimping lug positions:

L1, L2, L3, PE Crimping lugs are selected for 240mm, NoTr are selected for 16mm cable of selection. Cable gland nuts are compatible with 240mm cable sections complying with sealing standards. This structure is designed so that the cables with low elasticity can be mounted with the crimping lugs on the busbar as shown in the figure. Therefore the center points of the cable glands and the crimping lugs are aligned with the same axis (z-axis) as shown in the figure. The installation must be done accordingly as shown in the figure.



Contact surface of cable gland nuts and crimping lugs:

Surface contact of crimping lugs and cable glands are shown in brown color in the figure. Mounting surface of crimping lugs corresponds to %92 of the surface data indicated in the crimping lug datasheet compatible with cable section of 240mm.

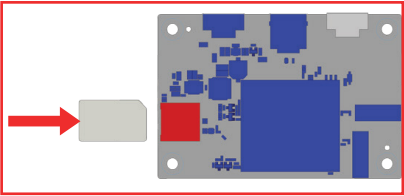
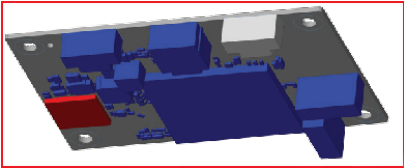
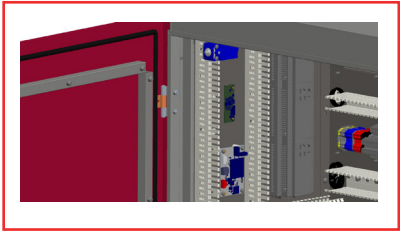


M10 SKP

- 3-** Pass the cables through the cable glands at the bottom of the charging station.
- 4-** Connect the AC Mains cables. First connect “Line PE” cable, then “Line N” cable, finally three phase cables (“Line 1”, “Line 2”, “Line 3”) as shown below:
The phase sequence is counter clockwise rotation.
- 5-** Tighten the cable glands using an adjustable wrench. 25Nm.

10.4.2 - SIM CARD CONNECTION

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

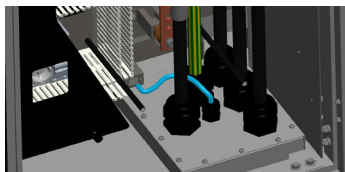


All products images are given for as a representative

10.4.3 - CONNECT OCPP OVER ETHERNET

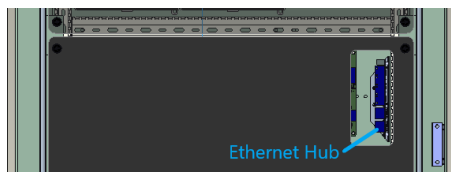
In order to connect your device to the internet over the cable and make the necessary adjustments, you must first prepare the ethernet cable and plug this cable into the locales that should be on the device.

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.



10.4.4 - CONNECT PC TO THE SAME NETWORK WITH HMI BOARD

In order to access Web Config UI, first you need to connect your PC and EV charger to the same ethernet switch or connect EV charger to your PC directly.



Power-on the charging station. Default IP address of HMI board is 192.168.0.10. For this reason, you need to give static IP to your PC in the same network with HMI board.

You should assign static IP address to your PC in 192.168.0.0/254 network which means that IP address should be in a range of between 192.168.0.1 and 192.168.0.254 .

For example, 192.168.0.11 can be set as an static IP to your PC.

10.4.5 - OPENING WEB CONFIGURATION INTERFACE WITH BROWSER

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

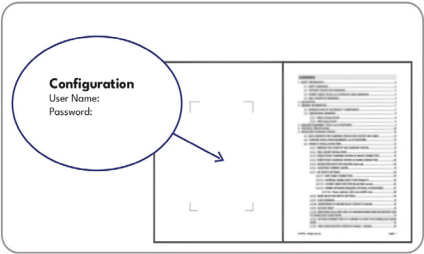
You will see login page on your browser;

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.

CHANGE PASSWORD

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

User Name:

*

Current password:

*

New password:

*

Confirm new password:

*

SUBMIT

Back to Login

10.4.6 - 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.

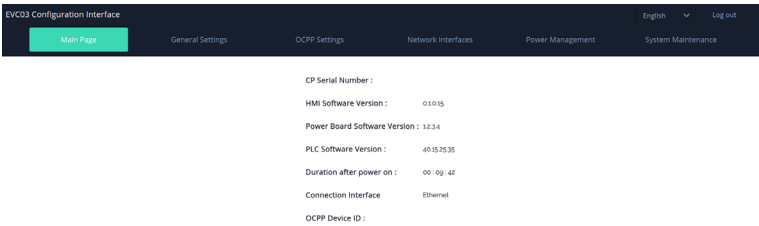
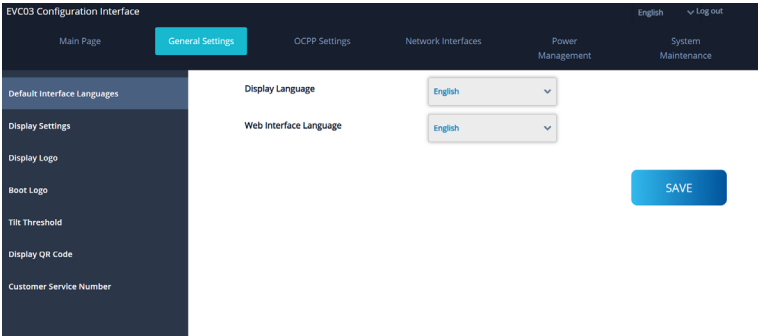


Figure Representation

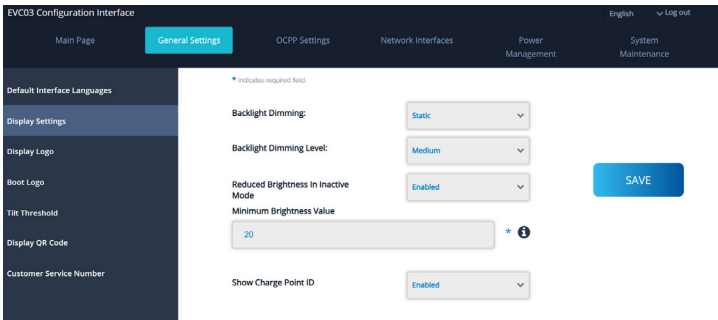
10.4.7 - GENERAL SETTINGS PAGE IN WEB CONFIG UI

10.4.7.1 - DEFAULT INTERFACE LANGUAGES

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



10.4.7.2 - Display Settings

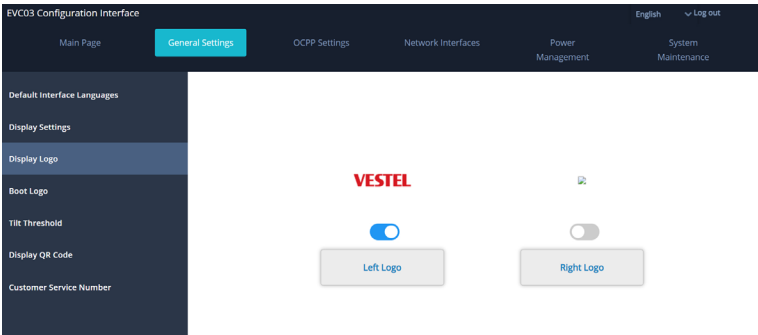


- **Static** - Set brightness/outdoor lighting to a fixed level, options include Low/Medium/High
- **Sensor Based** - Display brightness is changed based on given sensor value thresholds.
 - **medium threshold interval** : 0 - 65536
 - **high threshold interval** : 0 - 65536

Another option is Reduced Brightness In Inactive Mode.

10.4.7.3 - Display Logo

(Image is representative.)

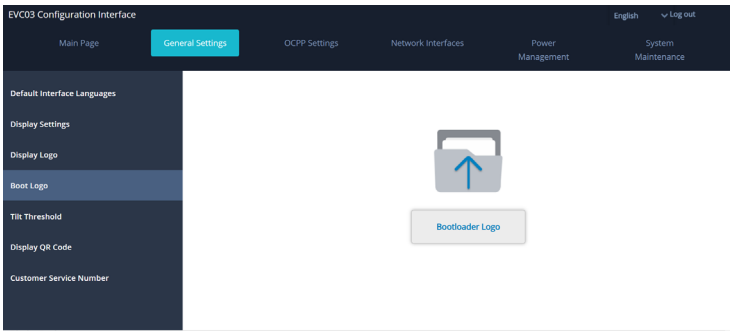


The user be able to load the right / left display logos to show on the UI App and be able to show and hide the logo using toggle button.

10.4.7.4 - Boot Logo

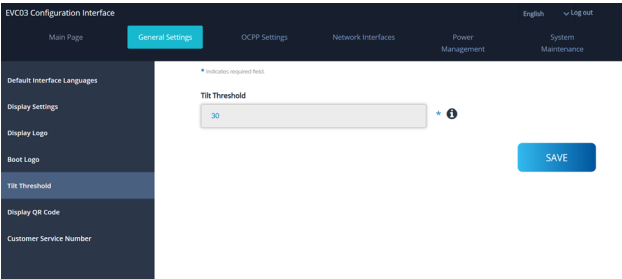
The details of Boot loader Logo

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



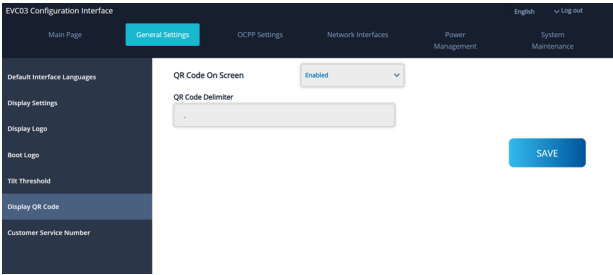
10.4.7.5 - Tilt Threshold

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



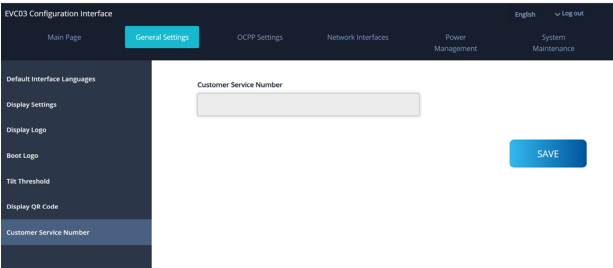
10.4.7.6 - Display QR Code

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.



10.4.7.7 - Customer Service Number

You can reach customer service number from web UI screen.



10.4.8 - OCPP Settings

10.4.8.1 - OCPP Connection

EVCD3 Configuration Interface

Main Page

General Settings

OCPP Settings

Network Interfaces

Power Management

System Maintenance

English

Log out

OCPP Connection

OCPP Version

Connection Settings

OCPP Configuration Parameters

* Indicates required field

OCPP Connection

Enabled

Authorization Mode

Standard OCPP

OCPP Version

OCPP 1.6

Connection Settings

Central System Address (Port number must be included)

Charge Point ID

OCPP Request Timeout (Milliseconds)

5000

SAVE

EVCD3 Configuration Interface

Main Page

General Settings

OCPP Settings

Network Interfaces

Power Management

System Maintenance

English

Log out

OCPP Connection

OCPP Version

Connection Settings

OCPP Configuration Parameters

Connection Settings

Central System Address (Port number must be included)

Charge Point ID

OCPP Request Timeout (Milliseconds)

5000

BooleanNotificationAfterConnectionLoss

False

Set to Defaults

AllowOfflineTxForUnknownId

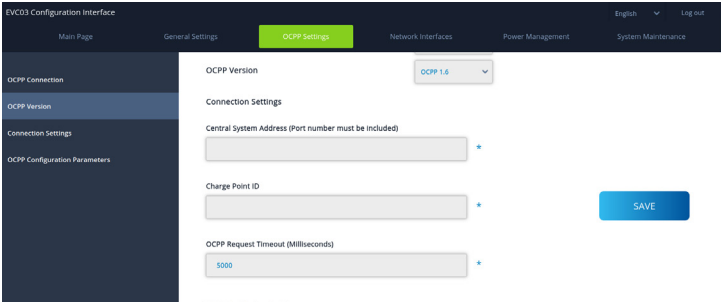
True

SAVE

10.4.8.2 - 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.



10.4.8.3 - Connection Settings

Central System Adress and Charge Point ID is required.

EVC03 Configuration Interface

Main PageGeneral SettingsOCPP SettingsNetwork InterfacesPower ManagementSystem Maintenance

EnglishLog out

OCPP Connection

OCPP Version

Connection Settings

OCPP Configuration Parameters

Connection Settings

Central System Address (Port number must be included)

Charge Point ID


OCPP Request Timeout (Milliseconds)

5000

WSS Certificates Settings

Certificate Type

keystore



SAVE

10.4.8.4 - OCPP Configuration Parameters

All OCPP configurations can be configured here.

EVC03 Configuration Interface

Main PageGeneral SettingsOCPP SettingsNetwork InterfacesPower ManagementSystem Maintenance

EnglishLog out

OCPP Connection

OCPP Version

Connection Settings

OCPP Configuration Parameters

Set to Defaults

AllowOfflineTxForUnknownId

True

AuthorizationCacheEnabled

True

AuthorizeRemoteTxRequests

False

BlinkRepeat

0

ChargeProfileMaxStackLevel

2147483647

ChargingScheduleAllowedChargingRateUnit

Current_Power

SAVE

EVC03 Configuration Interface

Main Page

General Settings

OCPP Settings

Network Interfaces

Power Management

System Maintenance

English

Log out

OCPP Connection

OCPP Version

Connection Settings

OCPP Configuration Parameters

ChargingScheduleAllowedChargingRateUnit

Current,Power

ChargingScheduleMaxPeriods

2147483647

ClockAlignedDataInterval

0

ConnectionTimeOut

20

ConnectorPhaseRotation

ConnectorPhaseRotationMaxLength

SAVE

EVC03 Configuration Interface

Main Page

General Settings

OCPP Settings

Network Interfaces

Power Management

System Maintenance

English

Log out

OCPP Connection

OCPP Version

Connection Settings

OCPP Configuration Parameters

ConnectorPhaseRotationMaxLength

2147483647

ConnectorSwitch3to1PhaseSupported

False

GetConfigurationMaxKeys

2147483647

HeartbeatInterval

10

LightIntensity

0

LocalAuthListEnabled

False

LocalAuthListMaxLength

SAVE

EVC03 Configuration Interface

Main Page

General Settings

OCPP Settings

Network Interfaces

Power Management

System Maintenance

English

Log out

OCPP Connection

OCPP Version

Connection Settings

OCPP Configuration Parameters

LocalAuthListMaxLength

2147483647

LocalAuthorizeOffline

True

LocalPreAuthorize

False

MaxChargingProfilesInstalled

2147483647

MaxEnergyOnInvalidId

0

MeterValuesAlignedData

MeterValuesAlignedDataMaxLength

2147483647

SAVE

EVC03 Configuration Interface

Main Page

General Settings

OCPP Settings

Network Interfaces

Power Management

System Maintenance

English

Log out

OCPP Connection

OCPP Version

Connection Settings

OCPP Configuration Parameters

MeterValuesAlignedDataMaxLength

2147483647

MeterValuesSampledData

Energy.Active.Import.Register.Soc

MeterValuesSampledDataMaxLength

2147483647

MeterValueSampleInterval

60

MinimumStatusDuration

0

NumberOfConnectors

SAVE

EVC03 Configuration Interface

Main Page

General Settings

OCPP Settings

Network Interfaces

Power Management

System Maintenance

English

Log out

OCPP Connection

OCPP Version

Connection Settings

OCPP Configuration Parameters

NumberOfConnectors

4

ReserveConnectorZeroSupported

False

ResetRetries

3

SendLocalListMaxLength

2147483647

StopTransactionOnEvSideDisconnect

True

StopTransactionOnInvalidId

True

StopTxnAlignedData

SAVE

EVC03 Configuration Interface

Main Page

General Settings

OCPP Settings

Network Interfaces

Power Management

System Maintenance

English

Log out

OCPP Connection

OCPP Version

Connection Settings

OCPP Configuration Parameters

StopTxnAlignedData

StopTxnAlignedDataMaxLength

2147483647

StopTxnSampledData

StopTxnSampledDataMaxLength

2147483647

SupportedFeatureProfiles

Core.LocalAuthListManagement.FirmwareManagement.Reservation.Remote

SupportedFeatureProfilesMaxLength

6

SAVE

EVC03 Configuration Interface

Main Page

General Settings

OCPP Settings

Network Interfaces

Power Management

System Maintenance

English

Log out

OCPP Connection

OCPP Version

Connection Settings

OCPP Configuration Parameters

SupportedFeatureProfilesMaxLength

TransactionMessageAttempts

TransactionMessageRetryInterval

UnlockConnectorOnEVSideDisconnect

WebSocketPingInterval

AuthorizationKey

6

3

20

True

15

SAVE

EVC03 Configuration Interface

Main Page

General Settings

OCPP Settings

Network Interfaces

Power Management

System Maintenance

English

Log out

OCPP Connection

OCPP Version

Connection Settings

OCPP Configuration Parameters

AuthorizationKey

CertificateSignedMaxChainSize

CertificateStoreMaxLength

CpoName

SecurityProfile

2147483647

2147483647

Vestel

0

SAVE

EVC03 Configuration Interface

Main Page

General Settings

OCPP Settings

Network Interfaces

Power Management

System Maintenance

English

Log out

OCPP Connection

OCPP Version

Connection Settings

OCPP Configuration Parameters

SendDataTransferMeterConfigurationForNonEichrecht

RemainingTimePostDataTransferMessage

MinimumStatusDuration

NumberOfConnectors

ReserveConnectorZeroSupported

ResetRetries

60

Disabled

Enabled

0

1

False

SAVE

10.4.8.5 - 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).

EVC03 Configuration Interface

English Log out

Main PageGeneral SettingsOCPP SettingsNetwork InterfacesPower ManagementSystem Maintenance

OCPP ConnectionOCPP VersionConnection SettingsOCPP Configuration Parameters

CertificateStoreMaxLength2147483647

CpoNameVestel

SecurityProfile0

Stop Charging Without CardDisabled

Auto Charge SupportDisabled

AutoChargeMACidPrefix

SAVE

10.4.8.6 - Network Interfaces

CELLULAR

EVC03 Configuration Interface

English Log out

Main PageGeneral SettingsOCPP SettingsNetwork InterfacesPower ManagementSystem Maintenance

CellularLANWLAN

CellularEnabled

Priority:10

IMEI:862757053229961

IMSI:

ICCID:

SAVE

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

LAN

EVC03 Configuration Interface

EnglishLog out

Main PageGeneral SettingsOCPP SettingsNetwork InterfacesPower ManagementSystem Maintenance

Cellular

LAN

WLAN

* Indicates required field.

LAN

MAC Address:

B4:10:7B:FD:F3:3A

Priority:

1000

*

i

IP Setting:

Static

*

IP Address:

SAVE

WLAN

EVC03 Configuration Interface

EnglishLog out

Main PageGeneral SettingsOCPP SettingsNetwork InterfacesPower ManagementSystem Maintenance

Cellular

LAN

WLAN

Password:

*

Select security type

Select security type

*

Priority:

100

*

i

IP Setting:

DHCP

*

SAVE

EVC03 Configuration Interface

EnglishLog out

Main PageGeneral SettingsOCPP SettingsNetwork InterfacesPower ManagementSystem Maintenance

Cellular

LAN

WLAN

* Indicates required field.

WLAN

Enabled

MAC Address:

54:DF:1B:11:7D:60

SSID:

*

Password:

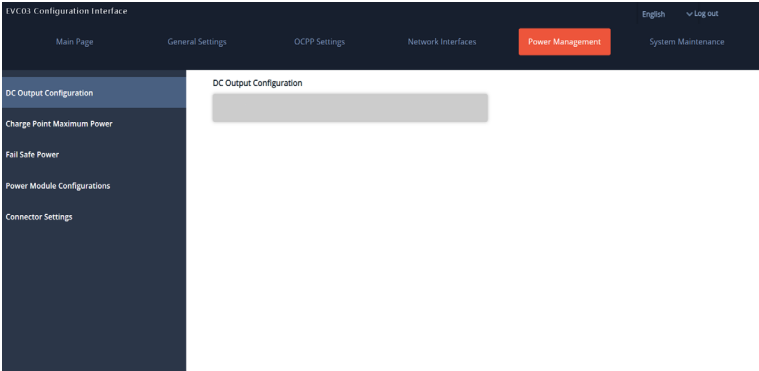
*

SAVE

10.4.9 - Power Management

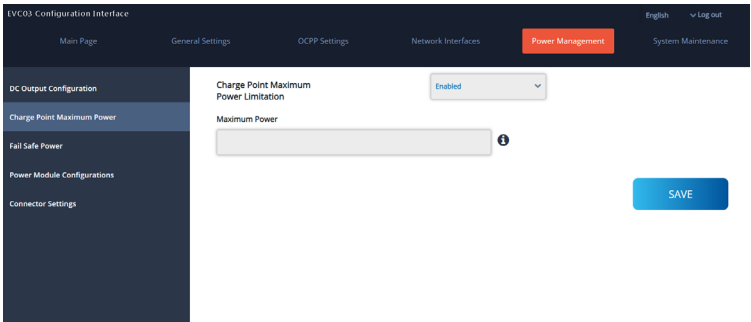
10.4.9.1 - DC Output Configuration

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



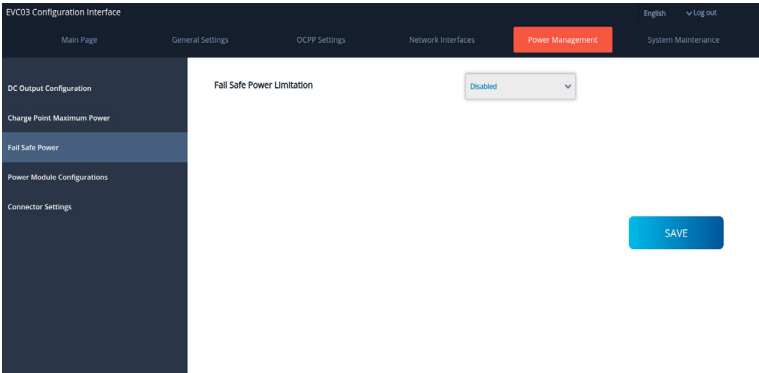
10.4.9.2 - Charge Point Maximum Power

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

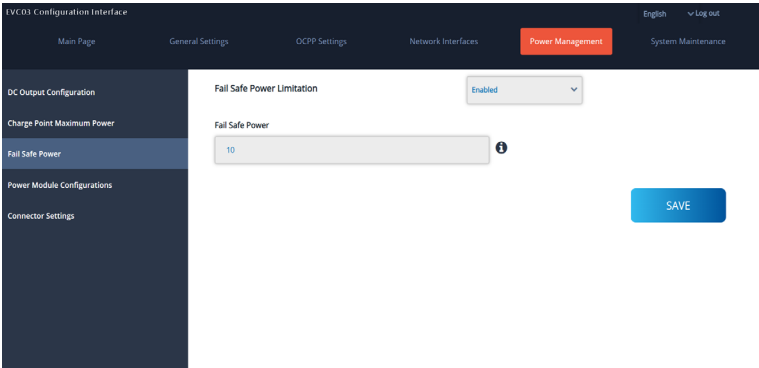


10.4.9.3 - Fail Safe Power

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



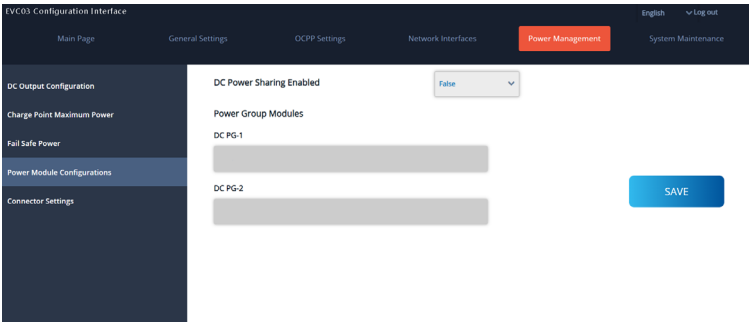
When feature is enabled, the user can set output power value. The default value is 10 kW.



10.4.9.4 - Power Module Configurations

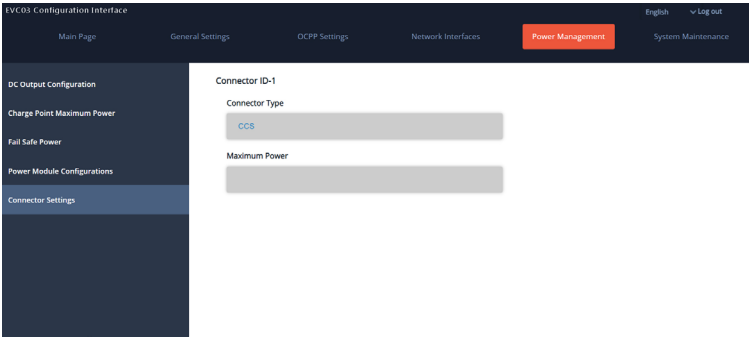
DC power sharing enabled option is used to allow CPO to decide if power sharing will be active for power modules.

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.



10.4.9.5 - Connector Settings

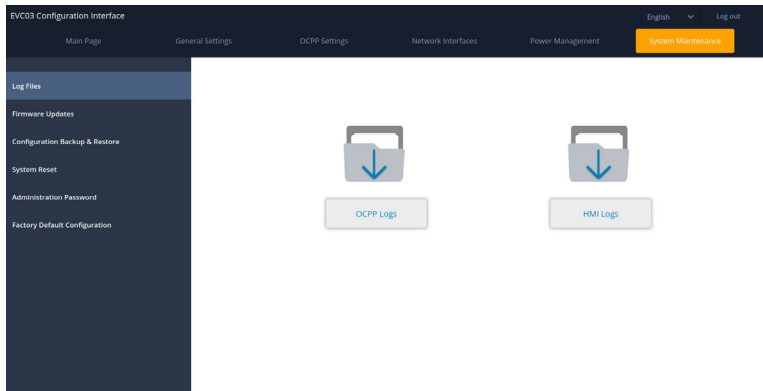
Connector type and corresponding maximum output power is displayed under Connector Settings menu.



10.4.10 - System Maintenance

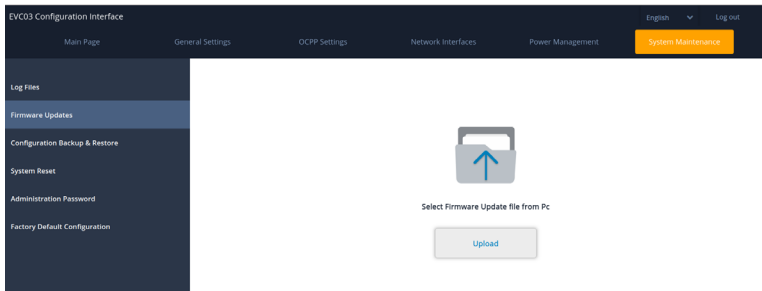
10.4.10.1 - Log Files

The logs related to device can downloaded here.



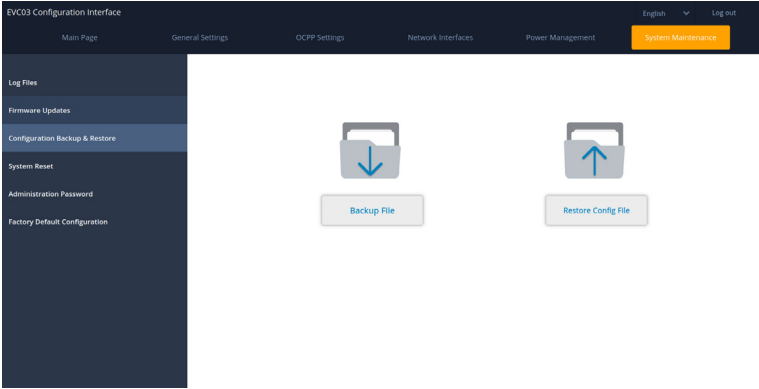
10.4.10.2 - Firmware Updates

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



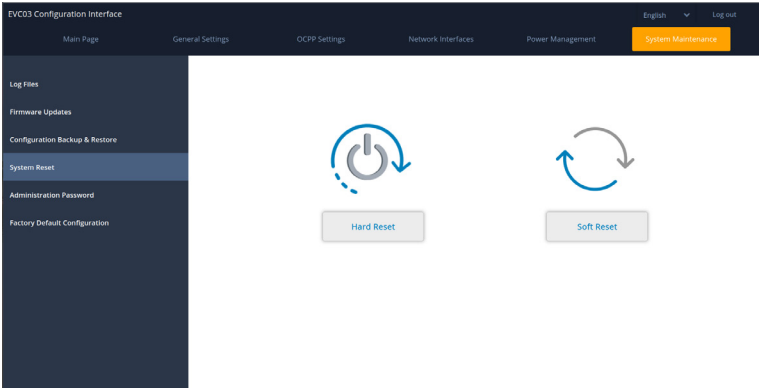
10.4.10.3 - Configuration Backup & Restore

The configurations related to device can be backed up and restored here.



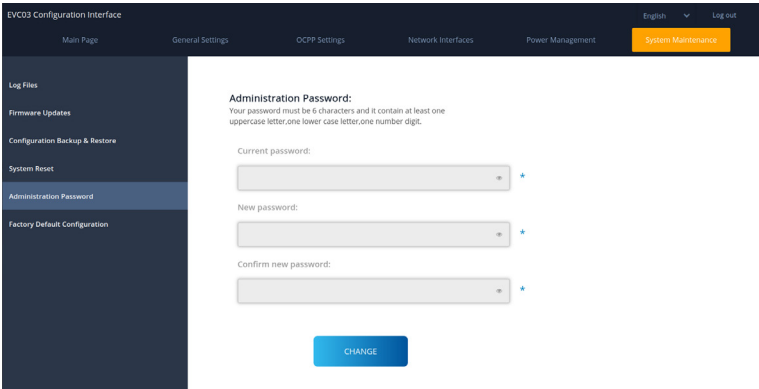
10.4.10.4 - System Reset

Hard or soft reset can be applied to device here.



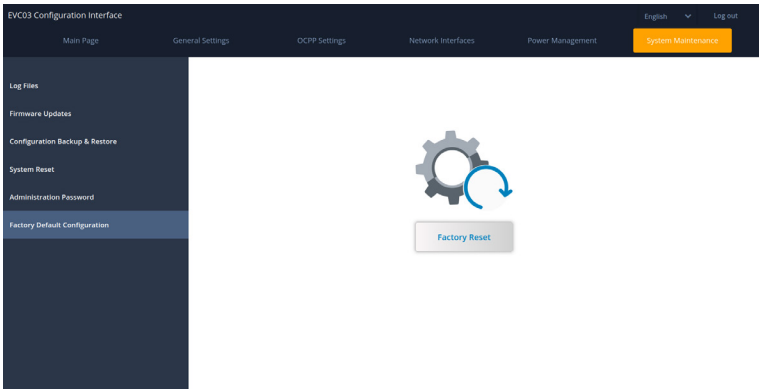
10.4.10.5 - Administration Password

The administrator password can changed here.



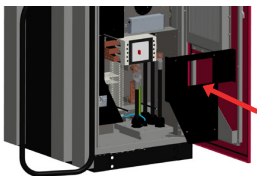
10.4.10.6 - Factory Default Configuration

Factory reset can applied to device here.

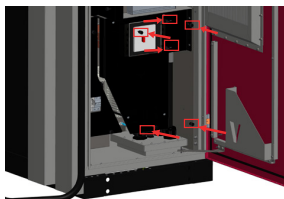


10.5 - CLOSE COVER

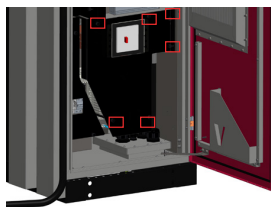
1. Place the (left and right) bottom side plates back and tighten the bolts.
2. Ensure all the cables and plugs are not damaged.
3. Place and tighten the screws of the isolator plate covering the AC Mains cable.



Step.1

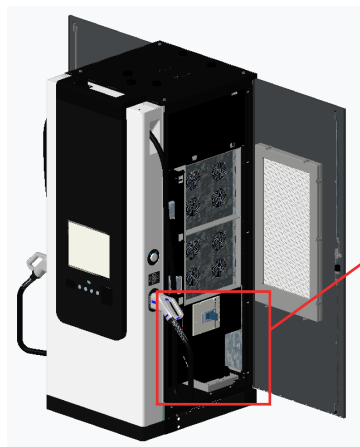


Step.2



Step.3

4. Switch on the MCCB.



5. Control of level of coolant in cooling unit.
(Only applicable for Liquid Cooled cable equipped models) (Optional)

6. Close the right side cover of the product by turning the handle clockwise with a wide-angle as shown in the section "Opening side covers" using the keys provided.

11 - PERIODIC MAINTENANCE LIST

	Maintenance Period (years)									
	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
Earthing resistance	M	M	M	M	M	M	M	M	M	M

C : Clean

I : Inspect (check, confirm, clean, tighten or replace if necessary)

M : Measure

T : Tighten

R : Revise

Air filters

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

Plugs

All Plugs should be checked when going for maintenance. If the plug is broken or cracked, it should be replaced. In addition, a charge attempt should be made with all Plugs.

Screen

When going for maintenance, the screen should be checked by pressing the touchscreen. It can be controlled by pressing all the functions on the screen. If there is no problem with the screen touch, the screen should be cleaned.

Distribution elements (MCCB, MCB RCCB)

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

AC input terminals

When going for maintenance, AC input terminals should be checked and tightened. It should be tightened with 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 must be replaced. If there is no problem with the fans, a charging attempt should be made. It should be checked whether the fans rotate during this charging.

DC relay terminals

When going for maintenance, DC relay terminals should be checked and tightened. The tightening process should be applied with 6.5 Nm.

DC output cable and terminals

DC output cable and terminallet should be checked when going for maintenance. It should be checked for any damage.

Body

When going for maintenance, the outer cabinet should be cleaned.

Earthing resistance

When going for maintenance, a mechanism should be set up like measuring with meger. After the piles are driven, the voltage between the two piles should be less than 1V

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

MOBİLİTE SANAYİ VE TİCARET A.Ş. EGE SERBEST BÖLGE ŞUBESİ

Zafer SB Mah. Ayfer Sok. No:22 İç Kapı No:1 Gaziemir, İzmir/ TÜRKİYE

Telefon (pbx) : 90 (232) 251 72 90 Fax : 90 (232) 251 73 13

Gaziemir V.D. : 837 001 0241

