



ELECTRIC VEHICLE CHARGER EVC04 Series

Benutzerhandbuch User Manual



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SAFETY INFORMATION



CAUTION

RISK OF ELECTRIC SHOCK:



CAUTION: ELECTRIC VEHICLE CHARGER DEVICE SHALL BE MOUNTED BY A LICENSED OR AN EXPE-RIENCED ELECTRICIAN AS PER ANY REGIONAL OR NATIONAL ELECTRIC REGULATIONS AND STANDAR-DS 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 - Please read these instructions fully before installing or operating

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 (MCB and RCCB). Consult your local dealer.
- The ambient temperature range should be between -35 °C and +55 °C (-25°C and +50 °C for RCCB equipped models: EVC04-AC***A-*) without direct sunlight and at a relative humidity of between 5 % and 95 %. Use the charging station only within these specified operating conditions.
- 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.
- The lowest part of the socket-outlet shall be located at a height between 0,5 m and 1,5 m above ground level.
- Adaptors or conversion adapters are not allowed to be used. Cable extension sets are not allowed to be used.

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.

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.

POWER CABLES, PLUGS and CHARGING CABLE WARNINGS

- Be sure that charging cable is Type 2 socket 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.

WALL MOUNTING WARNINGS

- Read the instructions before mounting your charging station on the wall.
- Do not install the charging station on a ceiling or inclined wall.
- Use the specified wall mounting screws and other accessories.
- This unit is rated for indoor or outdoor installation. If this unit is mounted outdoors, the hardware for connecting the conduits to the unit must be rated for outdoor installation and be installed properly to maintain the proper IP rating on the unit.

GENERAL INFORMATION

1 - INTRODUCTION OF THE PRODUCT COMPONENTS 1.1 - RCD MODELS



Tethered Cable Models





^{en} Socket Models

- 1- Information Display (Optional)
- 2- RFID Card Reader
- 3- Status indicator LED
- 4- Access cover for residual
- current device (Optional)
- 5- Socket Outlet
- 6- Product Label
- 7- Plastic Bling Flange
- 8- Charging station
- communication cable gland nut 9- Charging station supply inlet gland nut

^{en} Tethered Cable Models

- 1- Information Display (Optional)
- 2- RFID Card Reader
- 3- Status indicator LED
- 4- Access cover for residual
- current device (Optional)
- 5- Dummy Socket
- 6- Charging Plug
- 7- Product Label
- 8- Charging cable
- 9- Charging station

communication cable gland nut

10- Charging station supply inlet gland nut



2 - PLUG CHARGING CABLE 2.1 - SOCKET EQUIPPED MODEL

Open the front cover of the socket outlet and plug the charging cable to the socket outlet.



2.2 - ATTACHED CABLE MODEL

Press the button on top of the charging plug holder in order to release charging plug from the charger, and unplug the charging plug. Then plug the charging plug to the vehicle to start charging.



3 - BEHAVIOUR OF THE STATUS INFORMATION LED

| \bigcirc | Status | of the LED | Status of the Charging Station |
|------------|-------------------------|--|---|
| ((1990)) | 0 | No LED Indication | Charging device is ready to charge. Finished charging with RFID card |
| | ₩ [™] 4 sec | Blinks blue | Electric Vehicle is connected. Charging Station is waiting for RFID card authorisation. |
| | | Green Glowing | Charging is authenticated. |
| | | Blue Glowing | Charging in progress |
| | 0 | Constant Blue | Charging suspended or finished |
| | 0 | Constant Red | Fault condition |
| | ₩ 4 sec | Blinks red | Ventilation required mode |
| U | 2 4 sec | Blinks purple | Charging with current limited to 16A due to over temperature |
| | O | Constant Purple | Charging not possible due to over temperature or power optimizer current limit is reached or the charger is disabled |
| | 1 sec | Blinks red and blue | Charging station is reserved. Charging station is waiting for Eco Time interval. Charging station is in Delay Charge Mode. |
| | O | Constant Green | Firmware update |
| | <u>I</u> isec | Blinks red Per second for 60 seconds | Master Card Config mode / Local Card List Reset |
| | 2 sec | Blinks blue in every 2 secs | Waiting to Tap User RFID card or configure Drive Green from the smartphone |
| | Twice | Blinks green for 2 times | User RFID Card addition to local RFID list |
| | Twice | Blinks red for 2 times | User RFID card removes from local RFID list |

| Statu | s of the LED | Status of the Charging Station | | |
|-------------|----------------------------|--|--|--|
| | Green Glowing | Authorised RFID Card is tapped while charging cable is connected | | |
| | Glows green for 30 secs | Authorised RFID Card is tapped while charging cable is not connected | | |
| Three Times | Blinks red for 3 times | Start/stop charging attemption with unauthorised RFID card | | |

DESCRIPTION

1 - MODEL DESCRIPTION

| | MODEL DESCRIPTION: EVC04-AC**_* |
|---|--|
| | EVC04 : Electric Vehicle AC Charger (Mechanical Cabinet 04) 1st Asterisk (*) : Rated Power |
| | 11 : 11 kW (3Phase Supply Equipment) 22 : 22 kW (3Phase Supply Equipment) |
| | 2nd Asterisk (*) can include combinations of the following communication module options. RFID reader is standard equipment for all of the model variants. "S" option must be included for selecting combinations of W and L: |
| | Blank : No connectivity module except RFID reader S : Smart Board with Ethernet Port W : Wi-Fi module or WiFi & Bluetooth module L : LTE / 36 / 26 module P : ISO 15118 PLC module |
| Model Name | 3rd Asterisk (*) : Can be one of the following: |
| | Blank : No Display D : 4.3" TFT color display |
| | 4th Asterisk (*) can include combinations of the following: |
| | Blank : No RCCB A : Charging unit with Type-A RCCB MID: Charging unit with MID Meter |
| 5th Asterisk (*) can be Blank : Ca T2S : Case T2P : Case T1P : Case T1P : Case | 5th Asterisk (*) can be one of the following: |
| | Blank : Case-B Connection with normal socket T2S : Case-B Connection with shuttered socket T2P : Case-C Connection with Type-2 plug T1P : Case-C Connection with Type-1 plug |
| Cabinet | EVC04 |

2 - MODEL REFERENCES

Model reference table does not include all model variants of EVC04.

| | Single phase | Three phase | Smart | LTE | WiFi | Display | MID Meter | Type 2 socket | Shuttered type 2 socket output | RCCB Type-A | DC 6mA RCD | Type-2 Attached Cable | Type-1 Attached Cable |
|---------------------|-----------------|----------------|-------|-----|------|---------|-----------|------------------|---|----------------|---------------|-----------------------------|-----------------------------|
| EVC04-AC11SLD | | x | х | x | | x | | x | | | x | | |
| EVC04-AC11SWDA | | x | х | | x | x | | x | | х | x | | |
| EVC04-AC11SW | | x | х | | x | | | x | | | x | | |
| EVC04-AC11SW-T2P | | х | х | | х | | | | | | x | x | |
| EVC04-AC11SLWDA-T2P | | x | х | x | x | x | | | | х | x | x | |
| EVC04-AC11SLWDA-T2S | | x | х | x | x | x | | | x | х | x | | |
| EVC04-AC22SW | | x | х | | x | | | x | | | x | | |
| EVC04-AC22SW-T2P | | x | х | | x | | | | | | x | x | |
| EVC04-AC22SLDMID | | x | х | x | | x | x | x | | | x | | |
| EVC04-AC22SWDA | | x | х | | x | x | | x | | х | x | | |
| EVC04-AC22SLWDA-T2P | | x | х | x | x | x | | | | х | x | x | |
| EVC04-AC22SLWDA-T2S | | x | х | x | x | x | | | x | х | x | | |

TECHNICAL SPECIFICATIONS

This product is compliant to IEC61851-1 (Ed3.0) standard for Mode 3 use.

| Model | | EVC04-AC22 Series | EVC04-AC11 Series | | |
|--|---------------|--|---|--|--|
| IEC Protection | class | Class - I | Class - I | | |
| Vahiela | Socket Model | Socket TYPE 2 (IEC 62196) | Socket TYPE 2 (IEC 62196) | | |
| Interface Cable Model | | 5 m Cable with TYPE 2 (IEC 62196) Female Plug | 5 m Cable with TYPE 2 (IEC 62196) Female Plug | | |
| Voltage and Cu | rrent Rates | 400VAC 50/60 Hz - 3-phase 32A | 400VAC 50/60 Hz- 3-phase 16A | | |
| AC Maximum Charge Output | | 22kW | 11kW | | |
| Idle Power Consumption | | 3.5W | 3.5W | | |
| Required Circu AC Mains | it Breaker on | 4P-40A MCB Type-C | 4Р-20А МСВ Туре-С | | |
| Required Leakage Current Re- lay on AC Mains (for products which are not equipped with RCCB Type A) | | 4P -40A - 30mA RCCB Type-A | 4P -20A - 30mA RCCB Type-A | | |
| Required AC Ma | ains Cable | 5x 6 mm² (< 50 m) External Dimensions: Ø 15-21 mm | 5x4 mm² (< 50 m) External Dimensions: Ø 15-21 mm | | |

| Model | | EVC04-AC7 Series | | | |
|--|--------------|--|--|--|--|
| IEC Protection | class | Class - I | | | |
| Vehicle | Socket Model | Socket TYPE 2 (IEC 62196) | | | |
| Interface | Cable Model | 5 m Cable with TYPE 2 (IEC 62196) Female Plug | | | |
| Voltage and Cu | rrent Rates | 230VAC 50/60 Hz - 1-phase 32A | | | |
| AC Maximum C | harge Output | 7.4kW | | | |
| Idle Power Consumption | | 3.5W | | | |
| Required Circuit Breaker on AC Mains | | 2Р-40А МСВ Туре-С | | | |
| Required Leakage Current Re- lay on AC Mains (for products which are not equipped with RCCB Type A) | | 2P -40A - 30mA RCCB Type-A | | | |
| Required AC Ma | ains Cable | 3x 6 mm² (< 50 m) External Dimensions: Ø 11-15 mm | | | |

CONNECTIVITY

| Ethernet | 10/100 Mbps Ethernet (Standard with Smart Options) |
|----------------------|--|
| Wi-Fi (Optional) | Wi-Fi 802.11 a/b/g/n/ac |
| Bluetooth (Optional) | BT 4.2 / BT 5.0 |
| Celullar (Optional) | LTE: B1 (2100 MHz), B3 (1800 MHz), B7 (2600 MHz), B8 (900 MHz), B20 (800 MHz), B28A (700 MHz) WCDMA: B1 (2100 MHz), B8 (900 MHz) GSM: B3 (1800 MHz), B8 (900 MHz) |

OTHER FEATURES (Connected Models)

| Diagnostics | Diagnostics over OCPP WebconfigUI |
|-----------------|--|
| Software Update | Remote software update over OCPP WebconfigUI update Remote software update with server |

AUTHORIZATION

| RFID | ISO-14443A/B and ISO-15693 |
|------|----------------------------|
|------|----------------------------|

MECHANIC SPECIFICATIONS

| Material | Plastic |
|--|--|
| Size Dimensions (Package) Weight (Product) Weight with package AC Mains Cable Dimensions Cable Inlets | 315 mm (Width) x 460 mm (Height) x 135 mm (Depth) 405 mm (Width) x 530 mm (Height) x 325 mm (Depth) 5 kg for socket equipped model, 6,8kg attached cable model 7,1 kg for socket equipped model, 8,9kg attached cable model For 22 kW version Ø 15-21 mm For 7.4 kW version Ø 15-22 mm For 7.4 kW version Ø 11-15 mm AC Mains / Ethernet / Modbus |

ENVIRONMENTAL TECHNICAL SPECIFICATIONS

| Protection Class | Ingress Protection Impact Protection | IP54 IK10 (Optional display have IK08 protection) |
|------------------|---|---|
| Usage Conditions | Temperature Humidity Altitude | -35 °C to 55 °C (without direct sunlight) (–25°C to +50 °C for RCCB equipped models) 5% - 95% (relative humidity, no dew) 0 - 4,000m |

CHARGING

Your charging station is configured to be used in authorized charging mode by default. Check authorized charging mode behavior details in below section.

1 - STANDALONE USAGE MODES

First usage of "Standalone Usage" mode charger: Your charger's master RFID card is already registered to your charger and you can find the master RFID card in accessories. When your charger is powered in the first time, it opens in "onboarding" screens as shown figure below. If you do not make any configuration in onboarding screens for 60 seconds and connect your charging cable, your charging station starts in autostart mode automatically.



1.1 - AUTOSTART CHARGING MODE

Your charging station behaves in autostart charging mode as mentioned below:

a) If you do not make any configuration in configuration mode for 60 seconds and connect your charging cable, your charging station starts in autostart mode automatically. b) If you delete the last RFID card from the local RFID card list, then your charger starts to behave as autostart mode. (Detailly descriped in section 1.2.1.1)

1.1.1 - SOCKET EQUIPPED MODEL

1.1.1.1 - VEHICLE CONNECTION & CHARGING

| Model Without Display | Model With Display |
|--|--|
| 1 - Ensure that your vehicle and the station is ready for charging. | 1 - Ensure that your vehicle and the station is ready for charging. |
| No LED Indication | No LED Indication |
| 2 - Insert the charging plug to the vehicle inlet and charging station socket outlet. | 2 - Insert the charging plug to the vehicle inlet and charging station socket outlet. |
| No LED Indication | No LED Indication |
| 3 - Charging starts and status indicator LED glows in blue. | 3 - Charging starts automatically, and status indicator LED glows in blue. |
| | |

1.1.1.2 - STOP CHARGING



1.1.2 - ATTACHED CABLE MODEL

1.1.2.1 - VEHICLE CONNECTION & CHARGING



1.1.2.2 - STOP CHARGING



1.2 - RFID AUTHORIZED MODE

1.2.1 - REGISTERING USER RFID CARD

In standalone usage mode, the master RFID card is already registered to your charger. If you tap the master RFID card to your charging station when the charging cable is not connected, your charger starts to make broadcasting over Bluetooth and also in the same time you can add user RFID card to the charger's local RFID list. In this period of time, indication LED starts to blink blue for 60 seconds. You can add/delete your user RFID card. If you do not make any configuration in 60 seconds, charging station exists from configuration mode and returns to its previous mode.

1.2.1.1 - ADD/DELETE RFID CARD TO/FROM LOCAL RFID LIST:

As mentioned above, in configuration mode within 60 seconds, if you tap any user RFID card which is not in Local RFID list, it is provided to add to the list. Similarly, if you tap the user RFID card which was already added to the local RFID list before, then it is deleted from the list. If you delete the last RFID card from the local RFID card list, then your charger starts to behave as autostart mode.

1.2.2 - VEHICLE CONNECTION & CHARGING

1.2.2.1 - SOCKET EQUIPPED MODEL

1.2.2.1.1 - VEHICLE CONNECTION & CHARGING





NOTE

Charging operation is rejected by the charging station when you want to start charging with an unauthorized card.

It takes around one minute to reboot your charging station after it resets.

1.2.2.1.2 - STOP CHARGING

| Model Without Display | Model With Display |
|--|---|
| 1- You may follow the alternative methods specified below to stop charging. Do not attempt to unplug the charging cable from the station before stopping charging otherwise locking mechanism may get damaged. | 1- You may follow the alternative methods specified below to stop charging. Do not attempt to unplug the charging cable from the station before stopping charging otherwise locking mechanism may get damaged. |
| Method1. You can terminate charging by tapping the RFID card that you have started charging before. | Method1. You can terminate charging by tapping the RFID card that you have started charging before. |
| | Charging is finished Town 25W Boom Charging is finished Charging is fini |
| Method2. You may stop charging by unplugging the charging from the vehicle first. | Method2. You may stop charging by unplugging the charging cable from the vehicle first. |
| No LED Indication | Charging is finished <u>Down</u> <u>22xV</u> <u>22xV</u> <u>Com</u> <u>Charging is finished</u> <u><u>Charging is finished</u> <u><u>Charging is finished</u> <u><u>Charging is finished</u> <u><u>Charging is finished</u> <u><u>Charging is finished</u> <u><u>Charging is finished</u></u> <u><u>Charging is finished</u> <u><u>Charging is finished</u></u> <u><u>Charging is finished</u></u> <u>Charging is finished</u> <u></u><u>Charging is finished</u></u> <u>Charging is finished</u> <u></u><u>Charging is finished</u></u> <u>Charging is finished</u> <u></u><u>Charging is finished</u> <u></u> </u></u></u></u> |



1.2.2.2 - ATTACHED CABLE MODEL 1.2.2.2.1 - VEHICLE CONNECTION & CHARGING

| Model Without Display | Model With Display |
|--|--|
| 1 - Ensure that your vehicle and the station is ready for charging. | 1 - Ensure that your vehicle and the station is ready for charging. |
| No LED Indication | Connect charging coble |
| 2 - Insert the charging plug to the vehicle inlet. | 2 - Insert the charging plug to the vehicle inlet. |
| No LED Indication | No LED Indication |



NOTE

Charging operation is rejected by the charging station when you want to start charging with an unauthorized card.

It takes around one minute to reboot your charging station after it resets.

1.2.2.2.2 - STOP CHARGING

| Model Without Display | Model With Display |
|--|--|
| 1- You may follow the alternative methods specified below to stop charging. | 1- You may follow the alternative methods specified below to stop charging. |
| Method1. You can terminate charging by tapping the RFID card that you have started charging before. | Method1. You can terminate charging by tapping the RFID card that you have started charging before. |
| | Direct Charging is finished 22x00 22x00 0 0 |
| Method2. You may stop charging by unplugging the charging from the vehicle first. | Method2. You may stop charging by unplugging the charging cable from the vehicle. |
| No LED Indication | Market Durgton No LED Indication |
| 3- Insert the charging plug to the dummy socket of the station. | 3- Insert the charging plug to the charging plug holder of the station. |
| No LED Indication | Connect charging cable |

1.3 - SMART APPLICATION AUTHORIZED MODE (Optional with Wi-Fi)

1.3.1 – CONFIGURING DRIVE GREEN APPLICATION

In standalone usage mode, the master RFID card is already registered to your charger. If you tap the master RFID card to your charging station when the charging cable is not connected, your charger starts to make broadcasting over Bluetooth In this period of time, indication LED starts to blink blue for 60 seconds. You can configure Drive Green application from your smartphone in this period of time. If you do not make any configuration in 60 seconds, charging station exits from configuration mode and returns to its previous mode.

1.3.2 DRIVE GREEN CONFIGURATION:

It is waited to start configuration from your smartphone within 60 seconds after the configuration mode starts. If you do not make any configuration in 60 seconds, bluetooth broadcasting finishes and configuration mode ends.

Please download "Drive Green" application from Android Play Store or IOS App Store.

You can reach to the application by QR code below.





Open Drive Green Mobile App. You will see selection of different models. To configure your charger, select EVC04 screen shown in picture above and tab continue button and follow the instructions which are mentioned inside the application detailly to setup the charger and finish the configuration.

1.3.3 - VEHICLE CONNECTION & CHARGING

After configuring your charger with smart application, you can control the charger via the application either in autostart mode or in RFID authorised mode. Autostart and RFID authorised modes are explained in section 1.1 and 1.2.

Your charging station behaves in autostart charging mode as mentioned below. But you can continue to control the charger with smart application even it is in autostart charging mode.

a) If you do not make any configuration in configuration mode for 60 seconds and connect your charging cable, your charging station starts in autostart mode automatically. b) If you delete the last RFID card from the local RFID card list, then your charger starts to behave as autostart mode. (Detailly descriped in section 1.2.1.1)

1.3.3.1 - SOCKET EQUIPPED MODEL 1.3.3.1.1 - VEHICLE CONNECTION & CHARGING

| Model With Display |
|--|
| 1 - Ensure that your vehicle and the station is ready for charging. |
| Connect charging cable |
| 2 - Insert the charging plug to the vehicle inlet and charging station socket outlet. |
| Connect charging coble |
| No LED Indication |
| |



NOTE

Charging operation is rejected by the charging station when you want to start charging with an unauthorized card.

It takes around one minute to reboot your charging station after it resets.

1.3.3.1.2 - STOP CHARGING

| Model Without Display | Model With Display |
|---|---|
| 1- You may follow the alternative methods specified below to stop charging. Do not attempt to unplug the charging cable from the station before stopping charging otherwise locking mechanism may get damaged. | 1- You may follow the alternative methods specified below to stop charging. Do not attempt to unplug the charging cable from the station before stopping charging otherwise locking mechanism may get damaged. |
| Method1. You can terminate charging by tapping the RFID card that you have started charging before. | Method1. You can terminate charging by tapping the RFID card that you have started charging before. |
| Method2. You may stop charging by pressing "STOP" button in mobile application in your smartphone. | Method2. You may stop charging by pressing "STOP" button in mobile application in your smartphone. |
| 00 | |



1.2.2.2 - ATTACHED CABLE MODEL 1.2.2.2.1 - VEHICLE CONNECTION & CHARGING







NOTE

Charging operation is rejected by the charging station when you want to start charging with an unauthorized card.

It takes around one minute to reboot your charging station after it resets.

1.2.2.2.2 - STOP CHARGING

| Model Without Display | Model With Display |
|--|--|
| 1- You may follow the alternative methods specified below to stop charging. | 1- You may follow the alternative methods specified below to stop charging. |
| Method1. You can terminate charging by tapping the RFID card that you have started charging before. | Method1. You can terminate charging by tapping the RFID card that you have started charging before. |
| | Mover Integer 22300 22300 Mover Energy 22300 2000 |



1.3.4 - APPLICATION MODES

1.3.4.1- ECO CHARGE MODE

Eco Charge mode is a function which the user can set according the peak hours of electricity usage in his/her country and manage the charging periods accordingly. When Eco Charge is activated, charging start and finish intervals can be set.

If the charger starts charging in between the eco time interval set by the user, charging starts and finishes normally. If the charging starts out of eco time interval set by the user, it is waited to be in eco time period to start charging.



- If your charger is RFID authorised, after the charging cable is connected, you need to press "Charge Now" button from the application or tap one of the user card which is authorised. After that it is passed to eco time waiting mode.
- If you need to charge your EV without waiting the eco time interval, you can press to "Charge Now" button in your application for or tap one of authorised RFID user cards for immediate charging start.
- Your charger starts to blink blue-red when it waits the eco-time interval.
- When the charger starts to wait the eco charge interval, in the first 5 minutes, indication LED blinks blue and red colours. After 5 minutes the LED stops blinking blue and red colours. Similarly when the eco charge interval finishes, charging section pauses and indication LED blinks blue and red colours. After 5 minutes, the LED stops blinking.

1.3.4.2- DELAY CHARGE FUNCTION

Your charger has function to start your charging in a delay which you set in the application from your smartphone. To start charging in delay mode;

- After you connect the charging cable and set the delay time period from your application and press "Delay Charge" button, the charger passes to delay time mode, charging cable is locked by the charger and the indication LED starts to blink blue-red.
- In your application screen, you can see that the charging station is in delay charge mode.
- If you want to start immediate charging without waiting the delay time period; even the delay time is active from the application,

a) For RFID authorised mode device, any authorised RFID card tapping or pressing "Charge Now" button from the application can let your charger to start charging immediately.

b) For autostart mode device, pressing charge "Charge Now" button from the application can let your charger to start charging immediately.

- Delay charge screen in your charging station will be as below.
- When the charger is set as delay charging mode, in the first 5 minutes, indication LED blinks blue and red colours. After 5 minutes the LED stops blinking blue and red colours.



1.4 - RFID LOCAL LIST AUTHORIZED MODE & ACCEPT all RFIDs MODE

Please check "STANDALONE MODE SETTINGS" in Installation Guide document.

1.4.1 - SOCKET EQUIPPED MODEL

1.4.1.1 - VEHICLE CONNECTION & CHARGING





NOTE

Charging operation is rejected by the charging station when you want to start charging with an unauthorized card.

It takes around one minute to reboot your charging station after it resets.

1.4.1.2 - STOP CHARGING

| Model Without Display | Model With Display |
|--|--|
| 1- You may follow the alternative methods specified below to stop charging. Do not attempt to unplug the charging cable from the station before stopping charging otherwise locking mechanism may get damaged. | 1- You may follow the alternative methods specified below to stop charging. Do not attempt to unplug the charging cable from the station before stopping charging otherwise locking mechanism may get damaged. |
| Method1. You can terminate charging by tapping the RFID card that you have started charging before. | Method1. You can terminate charging by tapping the RFID card that you have started charging before. |
| Method2. You may stop charging by unplugging the charging from the vehicle first. | Method2. You may stop charging by unplugging the charging cable from the vehicle first. |
| 3- Insert the charging plug to the dummy socket of the station. No LED Indication | 2 - Unplug the charging cable from the station. |

1.4.2 - ATTACHED CABLE MODEL 1.4.2.1 - VEHICLE CONNECTION & CHARGING

| Model Without Display | Model With Display |
|--|--|
| 1 - Ensure that your vehicle and the station is ready for charging. | 1 - Ensure that your vehicle and the station is ready for charging. |
| No LED Indication | Connect charging cable |
| 2 - Insert the charging plug to the vehicle inlet. | 2 - Insert the charging plug to the vehicle inlet. |
| No LED Indication | No LED Indication |
| 3- Tap the RFID card to the RFID reader. | 3- Tap the RFID card to the RFID reader. |
| | Checking MTD authorization Prove most Unit of the sec. |



NOTE

Charging operation is rejected by the charging station when you want to start charging with an unauthorized card.

It takes around one minute to reboot your charging station after it resets.

1.4.2.2 - STOP CHARGING



2 - OCPP CENTRAL SYSTEM CONNECTED MODE (Optional)

2.1 - SOCKET EQUIPPED MODEL

2.1.1 - VEHICLE CONNECTION & CHARGING





NOTE

Charging operation is rejected by the charging station when you want to start charging with an unauthorized card.

It takes around one minute to reboot your charging station after it resets.

2.1.2 - STOP CHARGING

| Model Without Display | Model With Display |
|---|--|
| 1- You may follow the alternative methods specified below to stop charging. Do not attempt to unplug the charging cable from the station before stopping charging otherwise locking mechanism may get damaged. | 1- You may follow the alternative methods specified below to stop charging. Do not attempt to unplug the charging cable from the station before stopping charging otherwise locking mechanism may get damaged. |
| Method1. You can terminate charging by tapping the RFID card that you have started charging before. | Method1. You can terminate charging by tapping the RFID card that you have started charging before. |
| | United Overage Overage Overage United Overage Overage Overage United Overage Overage Overage United Overage Overage Overage |
| Method2. You may stop charging by unplugging the charging from the vehicle first. | Method2. You may stop charging by unplugging the charging cable from the vehicle first. |
| No LED Indication | Every Duration 22x10 22x10 |



2.2 - ATTACHED CABLE MODEL

2.2.1 - VEHICLE CONNECTION & CHARGING





NOTE

Charging operation is rejected by the charging station when you want to start charging with an unauthorized card.

It takes around one minute to reboot your charging station after it resets.

2.2.2 - STOP CHARGING



2.3 - OCPP 1.6 JSON ADDITIONAL FEATURES

2.3.1 - RESERVATION FEATURE

Reservation feature allows the user to reserve the charging station for a period of time. During this period:

- The LED will blink in red and blue.
- Only the RFID card that is used for reservation may initiate the charging process. Other cards are rejected.

If charging is not initiated until the reservation period is expired, the LED will switch to "No Light Indication" mode.



2.3.2 - REMOTE CHARGE INITIATION / TERMINATION

This feature is supported by the charging station. If it is also supported by the connected server, then charging process may be initiated/terminated remotely.

2.3.3 - RESTART

If the electric vehicle charging station is not working properly, the service provider may restart the appliance with this feature. There are two types of restart. Software or hardware reset may be selected.

2.3.4 - UNLOCKING THE SOCKET

If the charging cable is locked at the station, the service provider may unlock the cable via this feature.

LOCKED CABLE FUNCTION (Model with Socket)

The cable becomes locked and your socket model charging station starts behaving as an attached cable model.



MID METER MODELS (Optional)

It is possible to view the total active energy on the display of the MID meter (products with MID meter).



ERROR AND FAULT CONDITIONS

Due to any fault, in display models, you can see "Out of order!" screen in charging station.



1 - GENERAL ERROR CONDITION

If the status information LED is constant red, turn off the charging station and turn on again. if the LED is still constant red then call an authorized service.



2 - OTHER ERROR CONDITIONS

| Status Indicator | Problem | Possible Causes | Recommended Solutions |
|------------------|---|--|---|
| O | Constant LED. | AC supply voltage may not be in the range in the operation manual, grounding connection may not be performed and/or phase/neutral connections may be reversed or the charging station may have a fault. | Please ensure that the voltage is in the specified range and that the grounding connection have been performed. If the button is still solid red, please contact authorized service. |
| (()) 🔀 4 sec | Even if the status information LED blinks in blue every four seconds, it is not possible to start charging the electric vehicle or to lock the plug in the charging station | The charging plug may not be connected properly to the charging device or the electric vehicle. | Ensure that the charging plug is connected properly on both sides. Please check if your electric vehicle is in charging mode. |
| | The status information LED blinks in red | You shall see this error notification if your vehicle is equipped with a battery type that requires ventilation. | This charging station is not suitable to charge such vehicles. |

NOTE : if you face a configuration problem in configuring your charger and smartphone please be sure that the bluetooth range is less than 10 meters - stay inside the range.

NOTE : if you face a Wi-Fi connection problem in controlling the charger please restart your router and check the connections.

3 - TRIPPING RELAY ON PRODUCTS WITH RESIDUAL CURRENT DEVICE

ACAUTION

3.1 TRIPPING THE RESIDUAL CURRENT DEVICE

- The residual current device can be seen in the second part of the following figure. You may access the residual current device by opening the lock which is placed on the side cover as shown in the first part of the figure below. Place and push triangle key on the side cover lock then rotate the key 90 degree counter-clockwise.
- Ensure that there is no failure on your vehicle or on the charging plug that may cause a residual current before resetting the tripped residual current device.
- After ensuring that there is no problem on your vehicle or on the charging plug, unplug the charging cable from the charging station. Then reactivate your charging station by resetting the switch as shown in the third part of the figure as shown below.
- If the problem still occurs, contact an authorized service. If the problem is solved, there may be some problem with your vehicle or charging cable. Please contact with your vehicle service.



3.2 DC 6mA LEAKAGE CURRENT SENSOR BEHAVIOR

The charging station is equipped with a DC leakage current sensor that reacts a DC leakage current higher than 6mA.

If the charging station goes to error state due to DC leakage current, charging cable must be unplugged from vehicle and then from the charging station to reset this error.

CLEANING AND MAINTENANCE

A DANGER

- Do not clean your electric vehicle charging device while charging your vehicle.
- Do not wash the device with water.
- Do not use abrasive cloths and detergents. Microfiber cloth is recommended.

Failure to follow these warnings may result in death and serious injuries. Also, it may cause damage to your device.



VESTEL GERMANY GMBH Parkring 6 85748 Garching b. München / Germany

 Telefon:
 +49 89 55295-0

 Fax:
 +49 89 55295-5086

 Mail:
 B2B@Vestel-Germany.de

 Web:
 www.vestel-germany.de

Im Service- oder Garantiefall kontaktieren Sie uns bitte über:

Telefon: 089 211 29 999 (Deutschland) 0800 29 78 52 (Österreich)

eMail: service.evc@vestel-germany.de (alle Länder)

Unsere Garantiebedingungen für EV-Charger finden Sie unter: http://vestel-germany.de/de/page/service

