

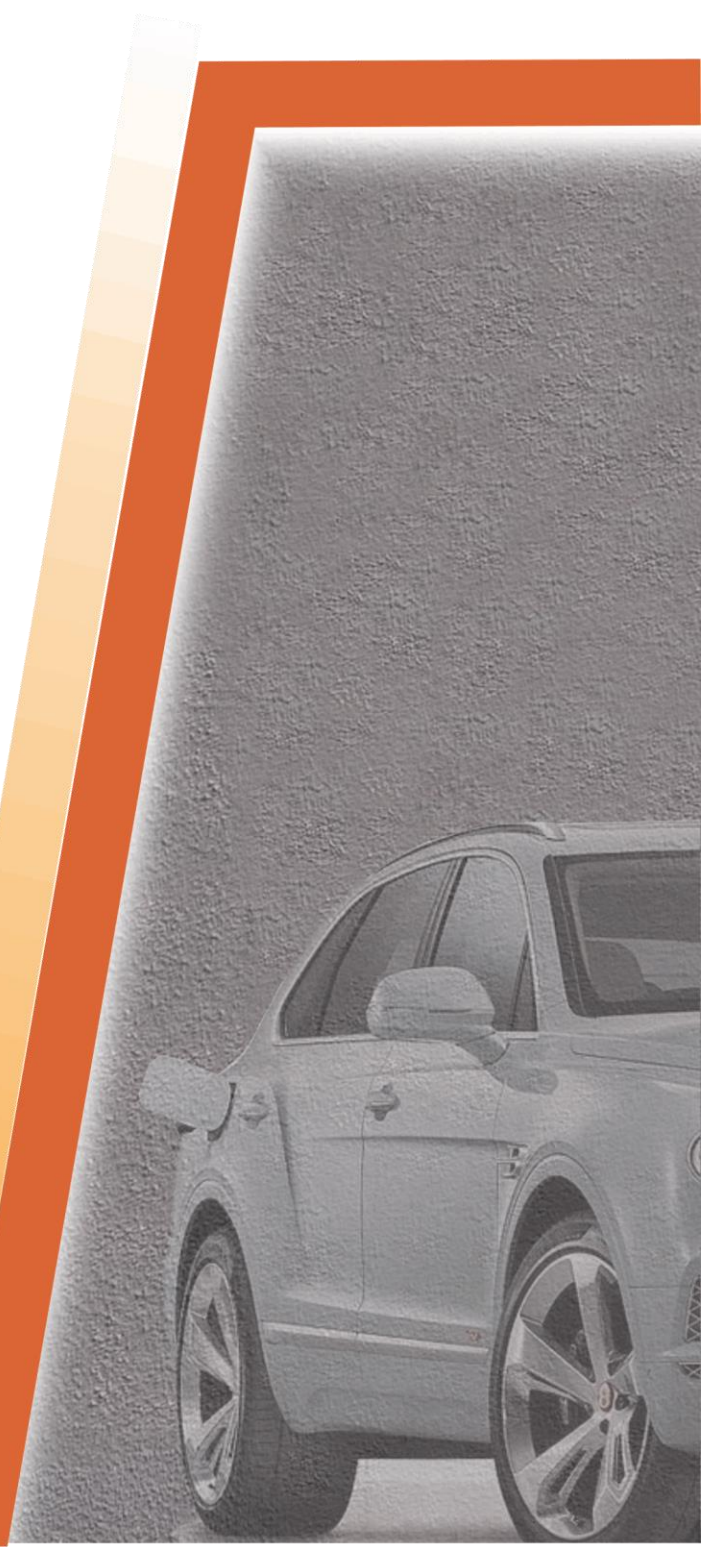


USER MANUAL

TiSO SMART EV CHARGER V1R



UKRAINE 2026 rev.1.1



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SAFETY INSTRUCTIONS

Before operating, repairing, or performing maintenance on the device, carefully read these instructions and inspect the equipment. This document or the equipment itself may include special messages to warn about potential hazards or to draw attention to information that explains or simplifies various procedures.

TiSO stations are charging devices that do not convert voltage or current in the network but regulate their flow and are equipped with internal protection devices in case of short circuits or other types of battery faults.

Charging stations may only be connected to networks where the voltage and frequency values are within the ranges specified in the technical manual. It is also essential that the installer fully understands which configurations should be adopted and which parameters should be selected.

The device is suitable only for fixed wall mounting on protected outdoor areas. Lightning protection must be provided at sites with an electric charging station.

IMPORTANT NOTES

Installation, operation, repair, and maintenance of electrical equipment must be performed only by qualified personnel. A qualified person is someone who has the skills and knowledge in the design, operation, and installation of electrical equipment and has completed safety training that enables them to identify and prevent potential hazards.

The device must not be connected in rooms with high humidity or dust. Direct sunlight exposure is prohibited.

This equipment must not be used by anyone (including children) with reduced physical, sensory, or mental capabilities, or by those lacking experience or knowledge, unless they are supervised by a person responsible for their safety.

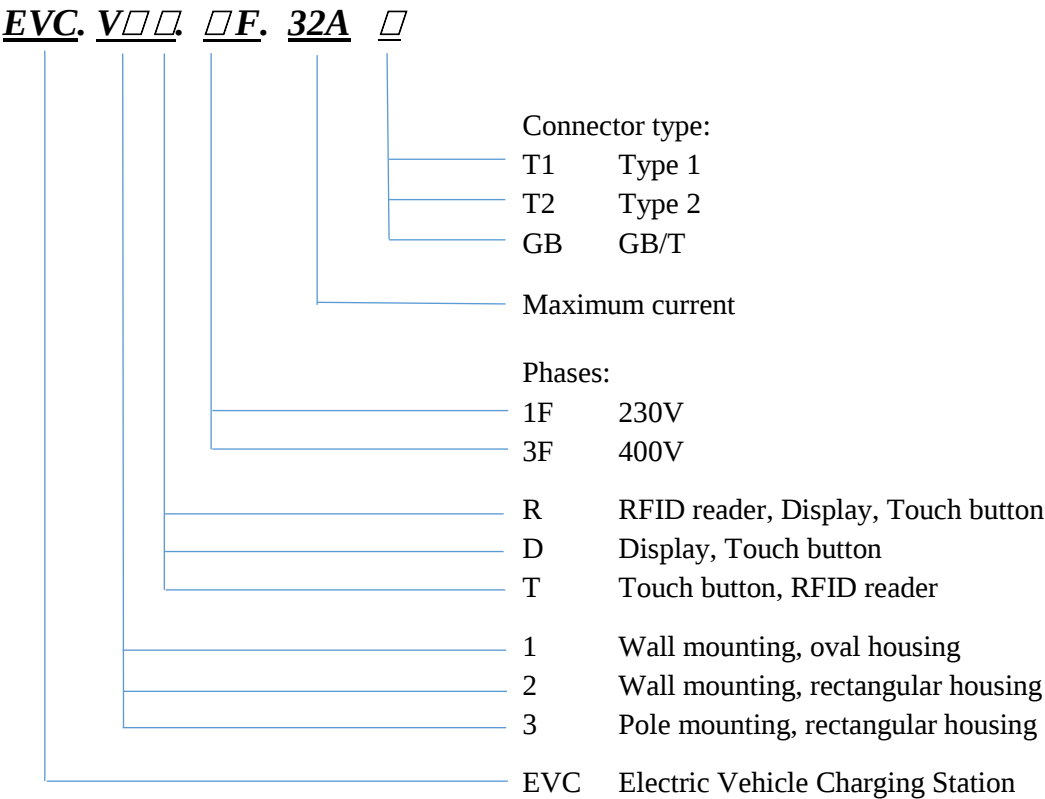
The TiSO charging station line is designed exclusively for charging electric vehicles.

1 ABOUT THE MANUAL

1.1 Purpose

This manual describes how to install and charge an electric vehicle using the TiSO Smart EV Charging Station. The instructions are intended for users of charging stations produced by LLC «TiSO-Production».

Depending on the design features, number of phases, and connector type of the charging station, the following product designation structure is used:



1.2 Validity of the manual

This manual complies with the standards applicable at the time of its publication (2024).

Please read this manual carefully before using the charging station.

The manufacturer shall not be held liable for any damage resulting from failure to comply with these instructions. The manufacturer reserves the right to make changes to the design, configuration, and construction of the product without prior notice. Such changes may not be reflected in this manual. Images and illustrations in this operating manual are schematic and may differ from the actual product, its components, markings, and labels. The final installation result may also visually differ.

All documents supplied with the product must be kept in an easily accessible place for future reference.

The latest version of the installation manual can also be downloaded from the company’s website using the QR code.

1.3 Types of warnings

The following warning markings are applied to the device and have the meanings described below:



Risk of electric shock!

Before performing any work on the device, ensure that it is completely disconnected from the power supply.



Qualified electrician!

Installation and connection of the device must be carried out exclusively by a qualified electrical installation specialist (hereinafter referred to as an electrician).



Protection class!

The device complies with protection class I in accordance with DIN EN 61140 (VDE 0140-1).

2 CHARGING CHARACTERISTICS AND STATION TYPES

2.1. Product description

TiSO Smart EV Charging station is a single-port charging station designed for residential and corporate use for charging electric vehicles.

The **TiSO Charging Station** is a modern intelligent device equipped with all the necessary features for fast and safe charging and offers the following advantages:

- Robust vandal-resistant enclosure.
- In-house developed electronics.
- Charging power up to 22 kW.
- Protection rating IP54 (dust and water protection).
- Dynamic LED status indication.
- Stylish and minimalist design.
- User-friendly operation.



Fig.1 – General view of the station



WARNING:

The charging station is not intended for any purpose other than those described in this manual. In the event of use of the charging station for any other purpose, all obligations, warranty liabilities, and claims for compensation shall become void.

2.1.1 Technical specifications

Technical data					
General data					
Charging model	EVC-V1R-1F-32A-T1	EVC-V1R-1F-32A-T2	EVC-V1R-3F-32A-T2	EVC-V1R-1F-32A-GB	EVC-V1R-3F-32A-GB
Connector type	Type 1	Type-2	Type-2	GB\T AC	GB\T AC
Application	Residential use				
Voltage / Phases	230V 1Ph	230V 1Ph	400V 3Ph	230V 1Ph	400V 3Ph
Current	32A	32A	32A*3	32A	32A*3
Power output	7 kW	7 kW	22 kW	7 kW	22 kW
Input terminal	3 Pin 32A (2P+PE) L1/N/PE	3 Pin 32A (2P+PE) L1/N/PE	5 Pin 32A (3P+N+PE) L1/L2/L3/N/PE	3 Pin 32A (2P+PE) L1/N/PE	5 Pin 32A (3P+N+PE) L1/L2/L3/N/PE
Charging mode	Mode 3 AC Fast Charger				
Overvoltage category	CAT II	CAT II	CAT III	CAT II	CAT III
Operating temperature / Humidity	-10 + 40 C - non-condensing				
Installation location	Indoor / Outdoor				
Mounting type	Wall-mounted				
IP rating	IP54				
Impact protection rating	IK07				
Functions and features					
Communication	Control button with indicator /WIFI / WIFI AP				
Options	RFID card reader, Smartphone control (NFC)				
Monitoring	Charger temperature, system time, energy consumption measurement				
Protection and safety	PE grounding protection, RCD overcurrent protection, OPP (overpower protection), OVP (overvoltage protection), UVP (undervoltage protection), overtemperature protection				
Additional features	Remote control, charging data storage, personalization				
Dimensions and physical characteristics					
Weight, kg	6,5 kg	7,5 kg	7,5 kg	7,5 kg	7,5 kg
Dimensions (H x W x D)	343x214x123 mm (with cable glands + mounting plate) 300x214x113 mm (housing without bracket)				
Material	Brushed stainless Steel + Black Front Glass				
Enclosure type	V1R				
Design features	3.5-inch display				
Cable length, m	5 m				
Power cable length	1 m				

2.1.2 Features

TiSO is a single-port EV charging station with a vandal-resistant enclosure, RFID and WiFi connectivity, and support for multiple charging standards.

The station is designed for fast charging of electric vehicles and features multi-level protection against overheating, unstable voltage, overcurrent, short circuit, adverse weather conditions, and external dust. It is equipped with grounding, residual current protection (insulation fault detection), fault monitoring, and an IP54 protection rating.

1. The vandal-resistant housing ensures long-term operation under any conditions. The enclosure is made of high-quality materials, providing resistance to vandalism and fire hazards, ensuring the safety of both the charging station and the surrounding environment.
2. The charging station provides enhanced security and monitoring through RFID and WiFi connectivity.
 - The RFID identification system ensures secure access management by allowing only authorized users to operate the charging station.
 - The integrated WiFi module enables the station to connect to the Internet for monitoring, control, and reporting. This allows operators to remotely monitor and manage charging sessions.
3. Support for multiple charging standards:
 - Type-1: Charging standard commonly used in the USA and Japan.
 - Type-2: Charging standard commonly used in Europe.
 - GB-T/AC: Charging standard commonly used in China.

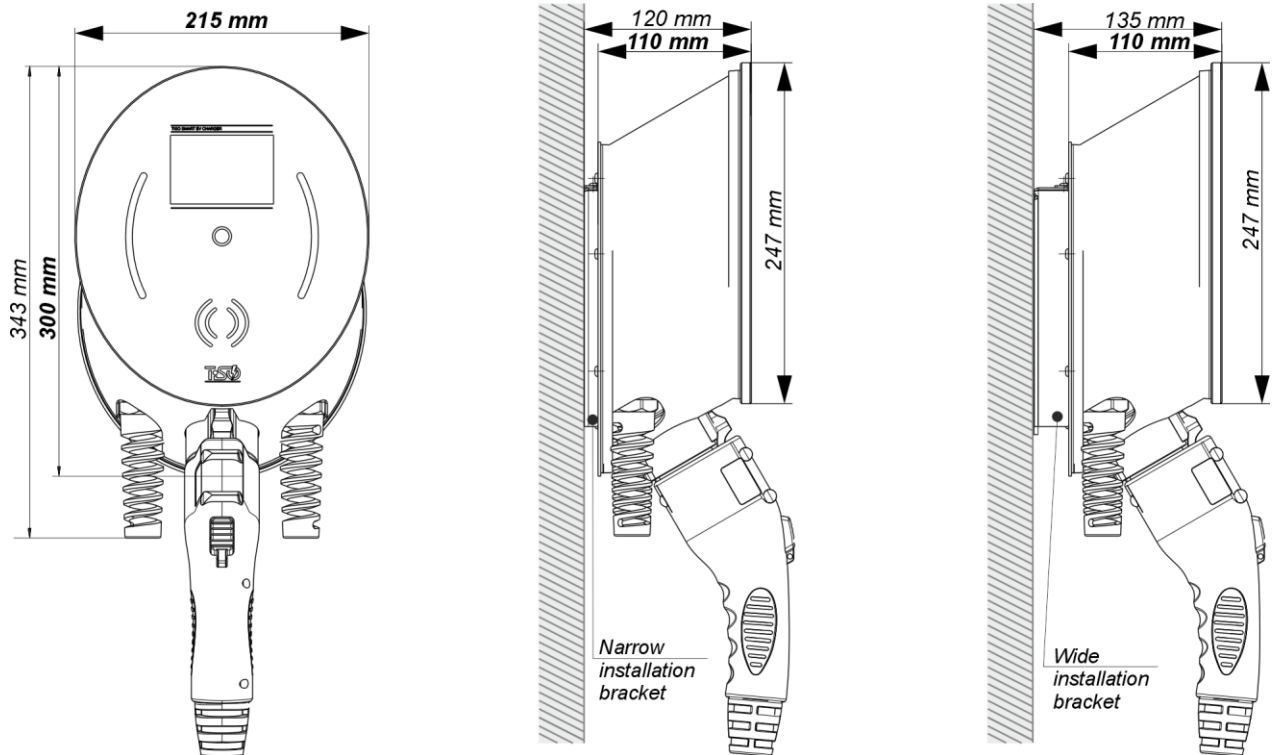


2.1.3 Model range

TiSO charging station model range (in accordance with IEC 62893)

Charging connector	Model	Voltage	Maximum current	Charging cable length	Control
Type-1	EVC-V1R-1F-32A-T1	230VAC– 1Ph	32A-7kW	5m	RFID, WIFI
Type-2	EVC-V1R -1F-32A-T2	230VAC– 1Ph	32A-7kW	5m	RFID, WIFI
	EVC-V1R -3F-32A-T2	400VAC – 3Ph	32A*3-22kW	5m	RFID, WIFI
GB-TVAC	EVC-V1R -1F-32A-GB	230VAC – 1Ph	32A-7kW	5m	RFID, WIFI
	EVC-V1R -3F-32A-GB	400VAC – 3Ph	32A*3-22kW	5m	RFID, WIFI

2.1.4 Dimensions



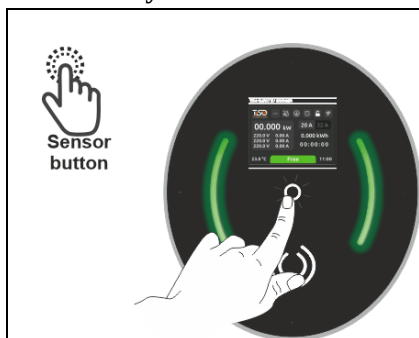
*Type 1 charging connector shown

Fig. 2 - Overall dimensions of the EV charging station

2.2 Control methods

There are three ways to interact with the charging station to charge your vehicle:

1. System menu button



Charging station display control button — pressing the touch button on the front panel switches between menu screens and changes the displayed parameters.

2. RFID



RFID card — an owner card used to control the charging station, including locking (charging disabled) and unlocking (charging enabled) the system.

3. Web UI



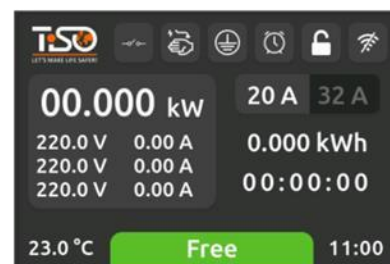
Web UI (Web Interface) — a user interface for controlling and configuring the charging station. Allows configuration and adjustment of all parameters available to the user.

2.3 Charging station statuses

The charging station status is indicated by the dynamic LED indicator on the front panel and by the information shown on the display:

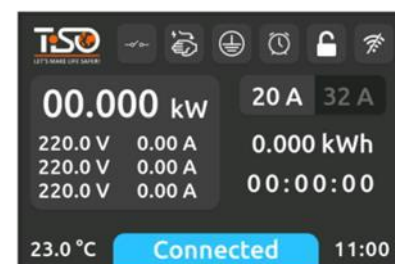
Free

- Charging station available/ready - waiting for the charging connector to be connected to the vehicle.



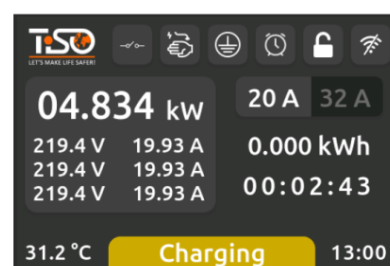
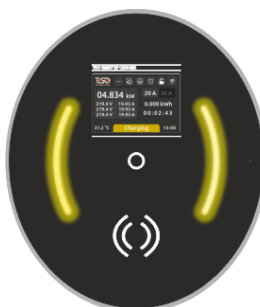
Connect

- The charging connector is connected to the vehicle, and the charging station is waiting for the vehicle to initiate charging. Alternatively, the vehicle has completed charging, and the station is waiting for the connector to be disconnected from the vehicle.



Charging

- Charging connector connected - vehicle is charging.



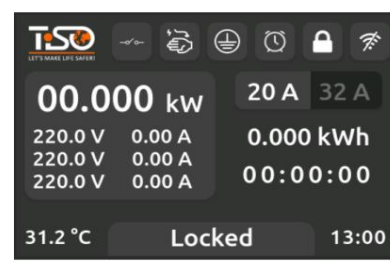
Fault

- An error has occurred - the charging session has stopped, vehicle voltage disconnected. The charging station is awaiting error reset by the user or automatic reset after the cause has been resolved, followed by automatic resumption of charging.



Locked

- The charging station can be locked
- in this case, the charging session will be terminated and cannot be started. Alternatively, it can be unlocked - charging becomes available and sessions can be started or continued. Locking and unlocking can be performed using an RFID card, via the web interface, or according to a configured timer.



Locked and Connect - The charging station can be locked - in this case, the charging session will be terminated and a new session cannot be started. Or unlocked - in this case, charging is available and charging sessions can be started and continued. Locking and unlocking can be performed using an RFID card, via the web interface, or according to a configured timer.

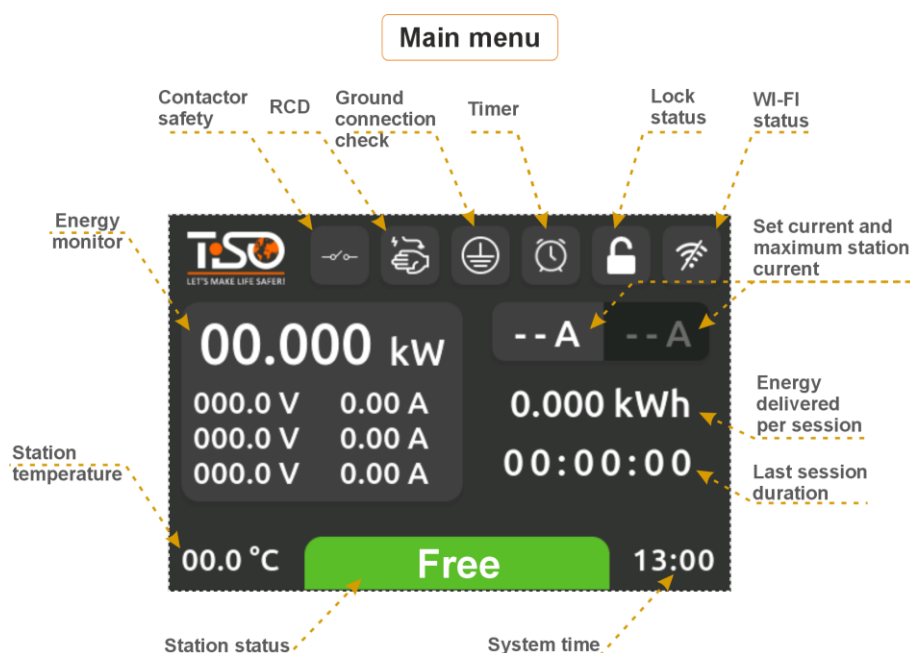


3 DESCRIPTION OF THE CHARGING STATION GRAPHICAL INTERFACE

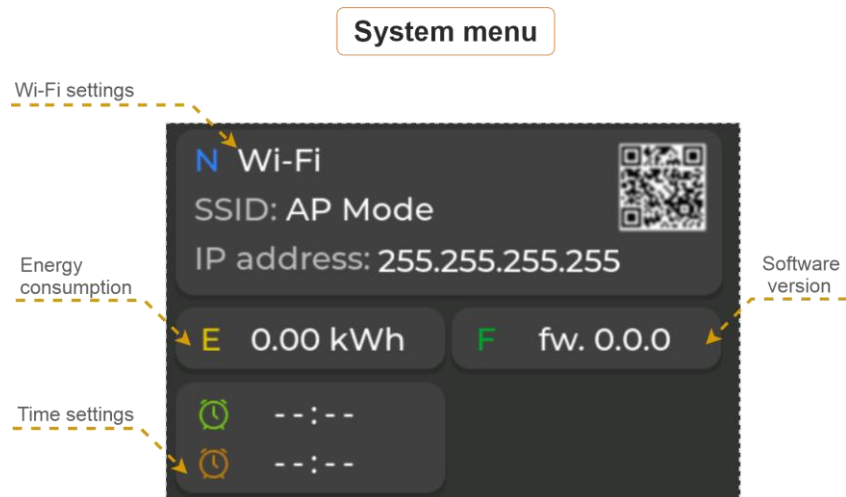
3.1 Charging station graphical interface

Three screens are displayed on the front panel display of the charging station:

1. MAIN DISPLAY



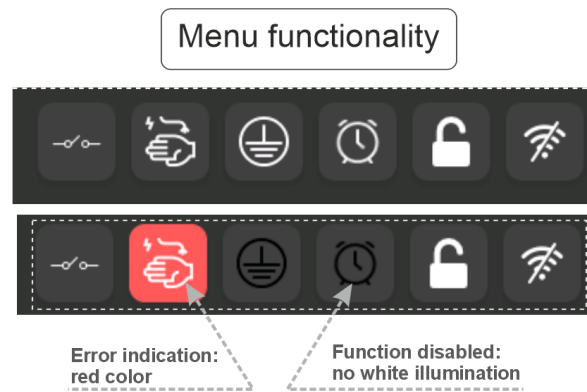
2. ADDITIONAL DISPLAY



3. MESSAGE DISPLAY

An error occurrence is indicated by red illumination.

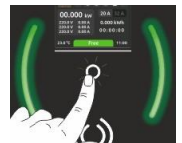
Functionality disabled - no white illumination.



To access the charging station settings, open the Additional Display menu.

A touch button on the charging station panel is used to switch between displays.

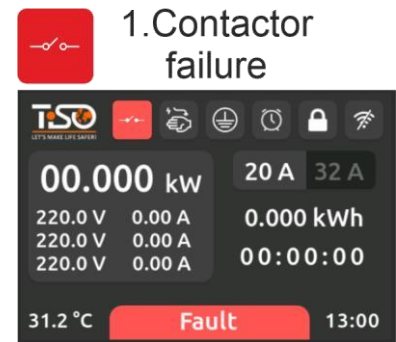
Automatic return to the Additional menu — timeout: 60 seconds.



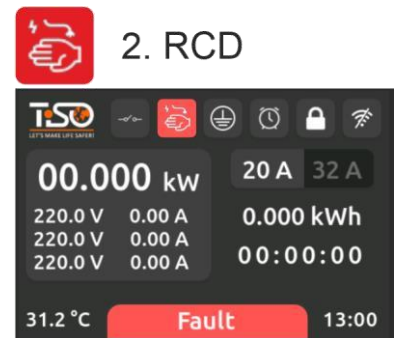
3.2 Safety – common errors

Typical errors and faults + Displayed messages on the charging station display.

1. **Contactor Check** – verification of proper contactor operation. The contactor is checked during every charging station state transition. If the contactor state does not match the required position, the system will enter a fault condition and the charging session start will be blocked until the error is reset via the Web UI or by restarting the charging station.

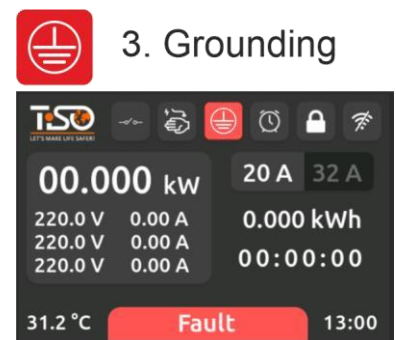


2. **Residual Current Device (RCD)** - emergency termination of the EV charging session in case of a difference between input and output currents. Charging sessions are blocked until the error is cleared via the Web UI or by restarting the station.

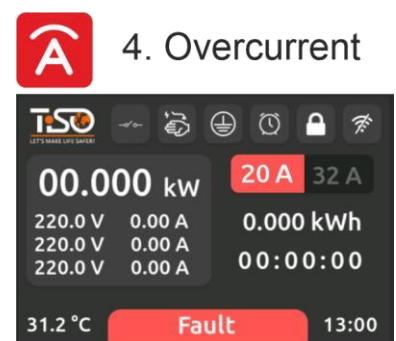


Residual Current Device (RCD) Test - verification of RCD operation. When the RCD is enabled, before the start of an EV charging session, the station controller generates a test current imbalance and waits for the RCD trip signal. Passing the test allows the charging session to start. If an error occurs during the test, the charging station is blocked, and charging sessions are prohibited until the error is cleared via the Web UI or by restarting the station.

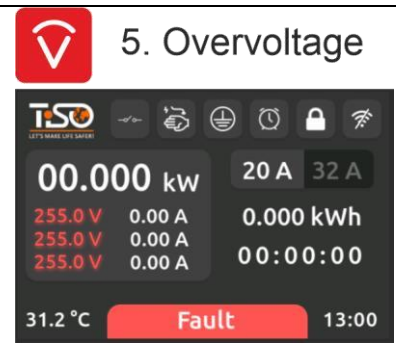
3. **Grounding Check - verification of the presence of a Protective Earth (PE) connection.** When PE monitoring is enabled, loss of contact with the PE line will result in emergency termination of the charging session and block the start of a new session until the error is cleared via the Web UI or by restarting the charging station.



4. **Overcurrent Check - verification of EV charging current.** If the charging current exceeds the preset allowable value, the charging station will terminate the session and enter a fault condition. The error can be cleared via the Web UI or by restarting the charging station.

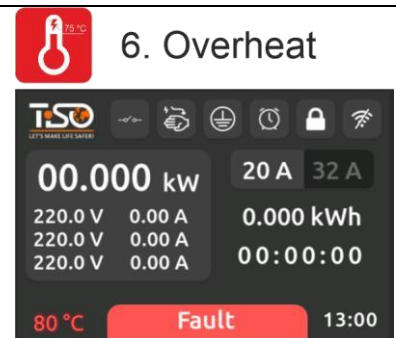


5. Overvoltage Check - verification of supply voltage and EV charging voltage. If the voltage exceeds the preset allowable value, the charging station will terminate the session and enter a fault condition. Once the voltage returns to normal, the error is cleared and the charging station resumes normal operation. The error can also be cleared via the Web UI or by restarting the charging station (either through the Web UI or by power cycling).



Undervoltage Check - verification of supply voltage and EV charging voltage. If the voltage drops below the permissible limit, the charging station will terminate the session and enter a fault state. Once the voltage returns to normal, the error is cleared and the charging station resumes normal operation. The error can also be cleared via the Web UI or by restarting the charging station.

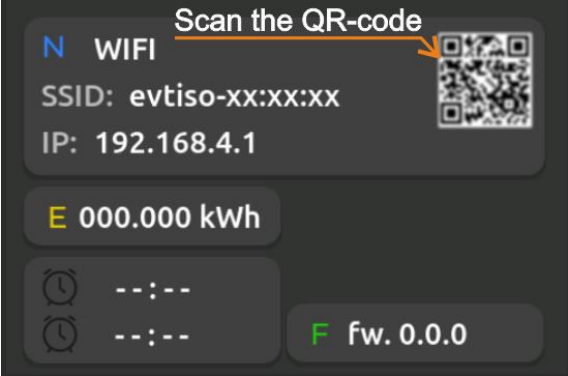
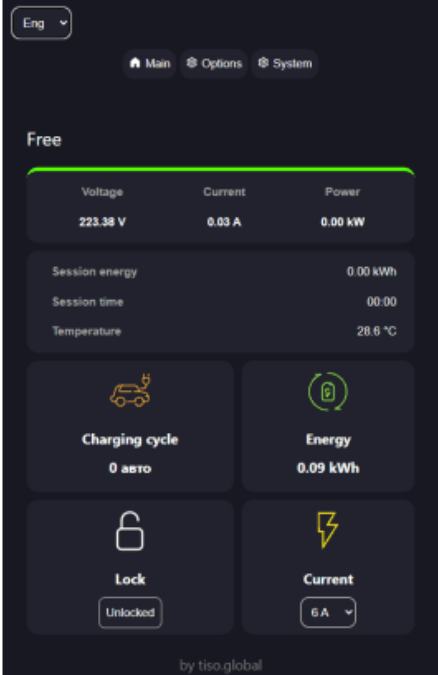
6. Overheat Protection - verification of the charging station temperature. If the temperature exceeds 60°C, the charging station will terminate the session and enter a fault state. Once the temperature returns to normal, the error is cleared and the charging station resumes normal operation. The error can also be cleared via the Web UI or by restarting the charging station.



4. DESCRIPTION OF THE CHARGING STATION WEB INTERFACE FUNCTIONALITY (WEB-UI)

4.1 Accessing the Web interface

To access the charging station web interface and perform further control, the user must connect to the same local network as the charging station.

1) By pressing the touch button on the charging station panel (View A), switch from the main menu to the system menu (View B).	View A)  View B) <i>System menu</i> 
2) Open the smartphone camera. Scan the QR-code located in the system menu and follow the link.	
3) The web interface for configuring the device will open.	Web interface home page 

Upon first startup, the charging station is configured in **Access Point (AP) mode**.

Operating modes

The charging station can operate in two modes:

- **Access Point Mode (AP mode)** — in this mode, the charging station creates its own Wi-Fi network (an access point) that a client, such as a smartphone, can connect to. This mode is activated when there is no connection to an existing network (another access point) or if the connection is lost.

- **Station Mode (STA mode)** — in this mode, the charging station connects to an existing home network. The user can assign a static IP address for the charging station via the Wi-Fi router settings. Scanning for available networks and connecting to them is performed through the web interface.

4.2 Home page

Language settings - select the system language for the web interface and the charging station.

Monitor — current measurements of voltage, current, and temperature, as well as information on electricity consumption during the last or current charging session.

Information on the number of EV charging cycles using the station and the total electricity consumed.

Lock control – lock/unlock button. When locked, charging is disabled; when unlocked, charging is available.

Current settings – set the maximum EV charging current.

The screenshot shows the home page of a charging station web interface. At the top, there is a language selector set to 'Eng' and three navigation tabs: 'Main' (active), 'Options', and 'System'. The main content area is titled 'Free' and displays real-time monitoring data in a dark-themed layout. A table shows Voltage (218.55 V), Current (0.03 A), and Power (0.00 kW). Below this, session statistics are shown: Session energy (0.00 kWh), Session time (00:00), and Temperature (28.9 °C). Further down, two large cards show 'Charging cycle' (45 авто) with a car icon and 'Energy' (0.09 kWh) with a battery icon. At the bottom, there is a 'Lock' section with an unlocked padlock icon and a 'Current' section with a lightning bolt icon and a dropdown menu set to 27 A. The footer text 'by tiso.global' is visible.

Voltage	Current	Power
218.55 V	0.03 A	0.00 kW

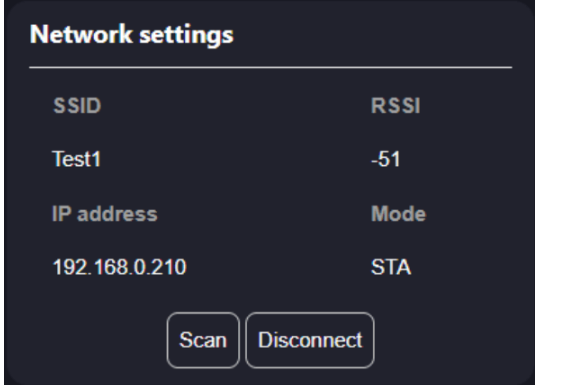
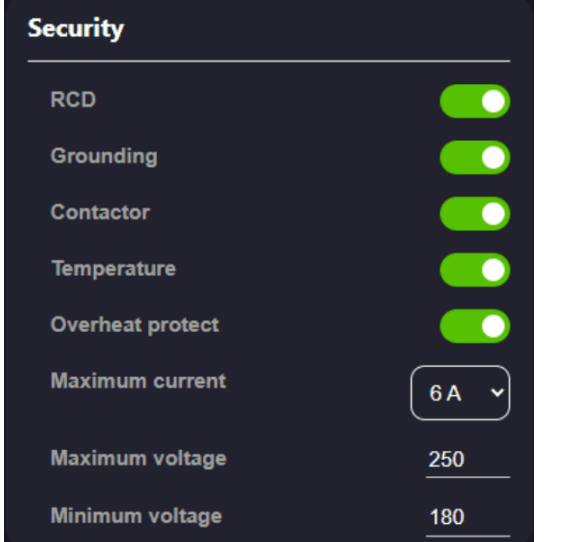
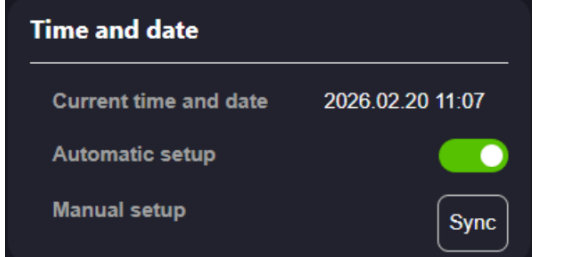
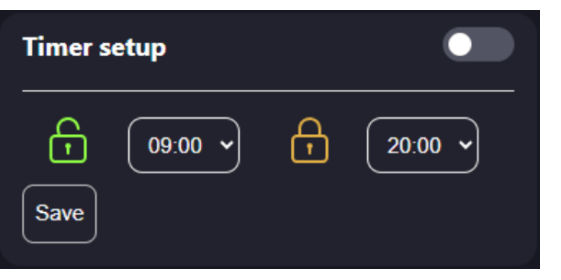
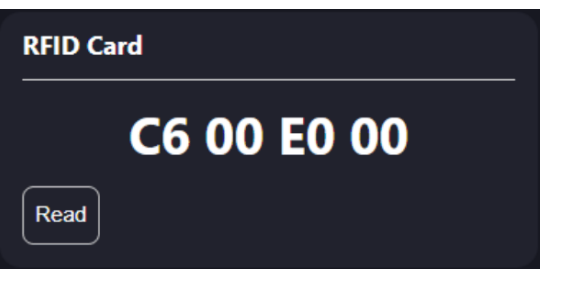
Session energy	0.00 kWh
Session time	00:00
Temperature	28.9 °C

 Charging cycle 45 авто	 Energy 0.09 kWh
---	--

 Lock Unlocked	 Current 27 A
--	---

by tiso.global

4.3 Options page

Network Settings – control panel for configuring the Wi-Fi module. The main panel displays information about the current connection.	 The 'Network settings' interface shows the current SSID as 'Test1' with an RSSI of -51. The IP address is 192.168.0.210 and the mode is STA. There are 'Scan' and 'Disconnect' buttons at the bottom.
Security – charging station security settings: enable or disable error monitoring and parameter control.	 The 'Security' interface includes toggle switches for RCD, Grounding, Contactor, Temperature, and Overheat protect, all of which are currently enabled. It also features dropdown menus for 'Maximum current' (set to 6 A), 'Maximum voltage' (set to 250), and 'Minimum voltage' (set to 180).
Time and Date – system time information and a synchronization button for setting the charging station time based on the connected device.	 The 'Time and date' interface displays the current time and date as 2026.02.20 11:07. It has a toggle for 'Automatic setup' which is enabled, and a 'Manual setup' section with a 'Sync' button.
Timer – timer configuration with selectable session start time (unlock) and session stop time (lock). Allows scheduled vehicle charging.	 The 'Timer setup' interface features a master toggle switch at the top. Below it, there are two time selection fields: one for unlocking at 09:00 and another for locking at 20:00, each with a corresponding lock icon. A 'Save' button is located at the bottom left.
Card Settings – panel displaying administrator card information and a button for registering a new card. After pressing the “Register” button, the user has 10 seconds to present a new card.	 The 'RFID Card' interface shows the card ID 'C6 00 E0 00' in large text. A 'Read' button is positioned at the bottom left.

Charging station setup – charging station configuration.

- Max Power – mode that allows setting the maximum charging current up to 40 A.
- For three-phase stations, a phase selection feature is available (1 phase or 3 phases).

Charging station setup

- Eco mode ☐
- Max power (40 A) ☐
- Recharge ☐

4.4 System page

Access point password settings – control panel for setting the charging station access point password when the station operates as a host.

Wi-Fi Access point

AP SSID evtiso-31:4e:45

STA MAC 68:b6:b3:31:4e:44

Password

Save

Firmware update – panel for updating the charging station software.

Firmware update

OTA Firmware 

Select file

No file selected

Device status information and access to the event log.

Device ID field — used for support, registration, and tracking. View system messages, errors, and service records.

System diagnostic

Serial number ec6fc3e2b1171025

Event log

Open

To perform an update, select the firmware version from the server and specify the file path on the PC.

Software information – panel displaying software details and a button for restarting the station via the web UI.

Firmware info

Version	0.9.7-002-d-0ef5a05a
Date	2026-02-20
Free RAM	2018344

Reload

Reset and factory restore controls.
Performs a full factory reset. All user data and settings will be deleted.

System restore

Factory reset

Restore

5. INSTALLATION AND MOUNTING

5.1 Site selection criteria

When choosing an installation location, follow the recommendations below to ensure safe operation of the charging station.

Installation location recommendations

- Consider the risk of possible flooding, local fire safety regulations, accident prevention requirements, and evacuation routes at the installation site.
- Do not install the charging station in hazardous or explosive areas, or in locations exposed to direct sunlight, heat sources, or water jets.
- The ambient temperature must be between -10°C до $+40^{\circ}\text{C}$.
- Do not install the charging station near sources of interference or heat, such as frequency converters, as they may affect the operation of the charger.
- Install the charging station on a wall indoors or in a protected outdoor area.
- Install the charging station only on flat wall surfaces made of concrete, brick, or other non-combustible materials. Installation on lightweight walls is prohibited.
- The technical specifications of the charging station must match the electrical supply parameters at the installation site.
- Install the charging station only in a vertical position and maintain the minimum clearances from other objects or walls, as well as the maximum distance between the charger and the electric vehicle.
- The installation location should also be agreed upon with the user. To ensure sufficient cable length, consider the vehicle charging port location and typical parking orientation.

Before installing the charging station, perform the preparation steps listed below:

Charging station power supply preparation recommendations:

- Install an additional circuit breaker in the building power supply system. The rating should be selected according to the charging station power.
- Mandatory installation of an additional residual current device (RCD) or a residual current circuit breaker in the building power supply system (see Section 6).
- Prepare the power supply line according to the phase configuration of the selected charging station.

5.2. Wall mounting

1. Select the required installation height for the charging station (recommended: 1.5 m). Mark the screw positions on the wall using the mounting bracket included in the package.

The mounting bracket is available in two versions: with a cable entry hole for power connection directly behind the station, or without a hole for routing the power cable next to the station.

2. Provide the appropriate power supply to the installation location (see Section 5);

3. Ensure the marked positions are level and drill holes according to the markings;

4. Route the power cable to the charging station according to the station configuration (single-phase 230 V or three-phase 400 V).

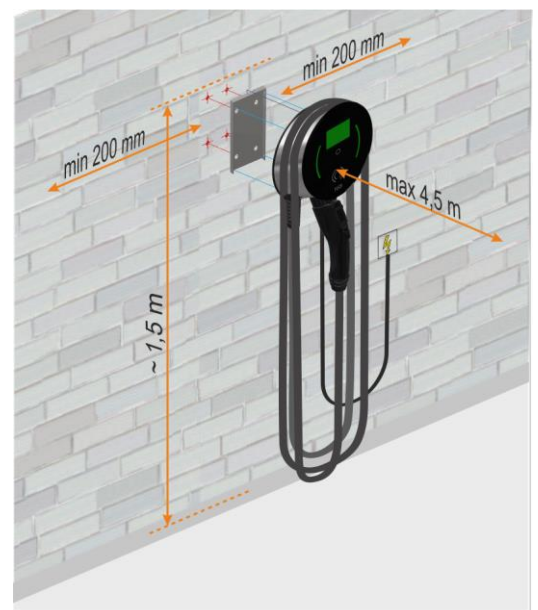


Fig.3 – Wall mounting

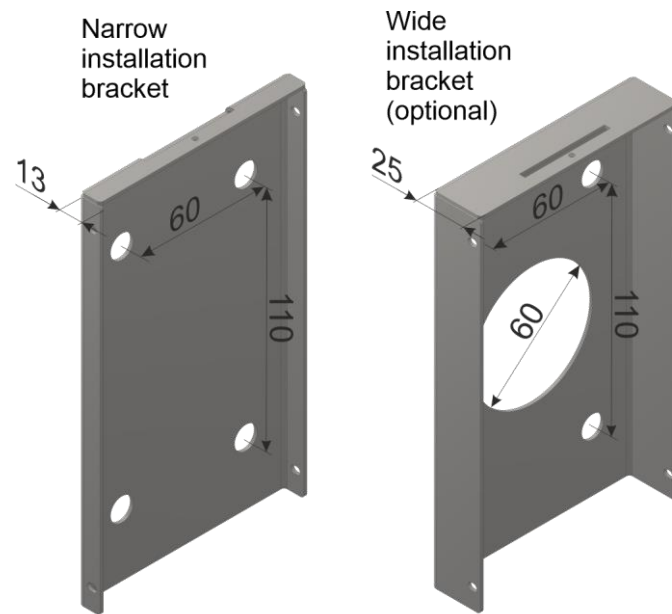


Fig.4 - Recommended wall mounting dimensions

5. Install the wall bracket and secure it with four screws (View B 1).
6. Mount the charging station onto the wall bracket slot (View C 2) and secure it with screws at the top (View B 3) and on both sides (View B 4).
7. Ensure the charging station is securely and firmly mounted on the wall.

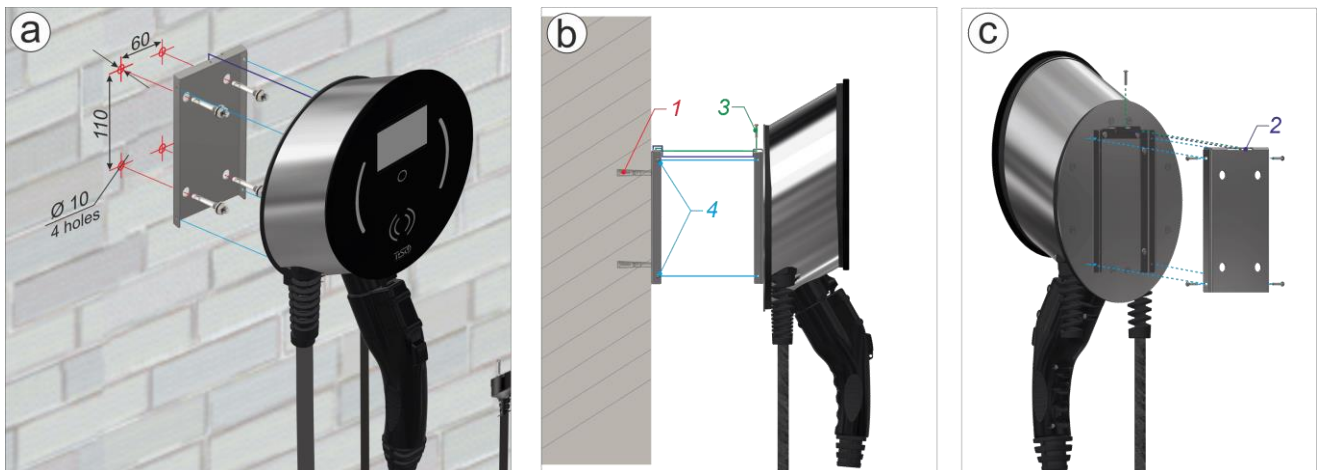


Fig.5 – Step-by-step wall mounting

6. CONNECTION



DANGER: RISK OF ELECTRIC SHOCK!

- Working with live parts may result in electric shock, which can be fatal.
- Before making any connections, ensure that the power is turned off by switching off the circuit breaker.
- Power may only be restored once the charging station is fully installed.

1. Route the power supply line to the wall-mounted charging station installation location using a cable gland for secure cable fixation.
2. Connect the power supply wires to the charging station cable.
3. Verify that the power supply line has proper grounding.

Charging station connection options:

A) Single-phase EVC-V1R-1F-32A



Fig. 6 - Single-phase charging station connection options

B) Three-phase EVC-V1R-3F-32A



Fig. 7 - Three-phase charging station connection options

To connect the charging station to the power supply line, perform the following steps:

1. Shorten the charging station power supply line to the required length using pliers.
2. Insert the individual wires of the power line into the corresponding terminals of the residual current device (RCD) and secure them.
 - flexible wires must be fitted with cable ferrules beforehand.
 - engage the spring mechanism of the PE terminal and secure the protective conductor.
 - to determine the correct connection sequence of the current-carrying conductors and their purpose, refer to the wiring diagrams provided below.

Start of charging

1. Park your vehicle in the designated charging spot, switch it off, and engage the parking brake.
2. Remove the charging plug from the charging station socket.
3. Insert the charging plug into the vehicle's charging socket.
4. The charging process will start automatically.

Function check

Proper operation of the charging station can be verified using the following sequence of steps:

1. Switch on the charging station power supply.
2. Wait until the display is activated.
The status LED indicator lights up green.
3. Connect the charging connector to the vehicle.
The status LED indicator lights up blue.
4. Charging process starts.
The status LED indicator lights solid yellow.
5. Charging process ends.
The status LED indicator lights up blue.
6. Disconnect the charging plug from the vehicle.
The status LED indicator lights up green.

7. PRODUCT OPERATION



WARNING!

Strictly follow the operating instructions and safety precautions provided below to ensure safe and reliable charging.

Regular professional inspection and maintenance of the charging connector are recommended to ensure long-term stable operation!

7.1 General safety rules for operation

1. Pre-use inspection

- 1) Before using the charging connector, make sure the charging equipment and cables are intact and undamaged.

In case of cable damage, loose connections, or other faults, discontinue use immediately and contact qualified personnel for inspection and corrective action to prevent electric shock or fire.

- 2) Ensure that the voltage and power ratings of the charging connector and charging station match to prevent equipment damage.

2. Operating conditions

- 1) Avoid using the charging connector in humid environments, extreme temperatures, or areas with corrosive gases.

- 2) Ensure the charging connector is used in a dry and well-ventilated environment and avoid direct sunlight exposure.

3. Operator requirements

- 1) Operators should receive proper training to understand the basic operating principles, procedures, and safety requirements of the charging connector.

- 2) During operation, appropriate personal protective equipment (PPE), such as insulated gloves and safety goggles, should be worn to prevent electric shock or injury.

7.2 Safety precautions

1. Electric shock prevention

- When operating the charging connector, ensure your hands are dry and clean, and avoid touching exposed metal parts of the charging connector and charging station simultaneously.
- If leakage is detected in the charging connector or charging station, stop operation immediately and contact qualified personnel for repair.

2. Fire prevention

- During charging, keep flammable and explosive materials away from the charging connector and charging station.
- If abnormal heating, smoke, or fire is detected during charging, stop charging immediately and use a fire extinguisher if necessary.

3. Equipment protection

- Avoid rough handling, such as dropping or stepping on the charging connector, to prevent equipment damage.
- Regularly inspect and maintain the charging connector to ensure proper operation.

4. Compliance

- Strictly follow national and local regulations and safety guidelines for EV charging.

In case of an emergency, immediately press the emergency stop button on the charging station and contact qualified personnel for assistance.

7.3 Charging process

1) Connecting the charger to the electric vehicle

Park the electric vehicle near the charger, ensuring the cable is not under tension at this stage:

- Remove the charging cable from the charging station and connect the charger and vehicle connectors.
- Insert the charging connector into the vehicle's charging port until it clicks into place, indicating that it is securely locked.
- When inserting or removing the charging connector, ensure the plug and connector head are properly aligned and securely engaged. Do not pull the cable forcefully, as this may damage the cable or plug and cause leakage or short circuit.

When properly connected, the LED indicator on the charger should flash yellow, indicating that the charger is ready to start charging the vehicle.

2) Start of charging

Once the connector is plugged into the electric vehicle and ready for charging, scan the RFID card once over the identification area on the front panel (if required by the selected mode) to start charging.

Once charging begins, the connector will remain locked in the socket until the next command. The charger will display real-time charging information, such as energy delivered, charging time, voltage, current, and power.

3) End of charging

When the electric vehicle is fully charged, charging will stop and the LED indicator will turn green.

If it is necessary to stop charging earlier, the session can be ended from the vehicle side. Once the connector is released from the vehicle, the charging session will be terminated!

1) When charging is complete or needs to be stopped, first stop the charging process, then press the release button on the connector and unplug it from the vehicle to ensure safety.

2) Store the charging connector properly: wrap the cable around the charging station and place the connector into the built-in holder.

3) Do not leave the charging cable on the ground.

8. MAINTENANCE

8.1. Cleaning and care

To ensure safe and reliable operation of the charging station, carry out the following maintenance and inspection procedures:

Check / Maintenance	Interval	Performed by
Visual and functional inspection	During operation	User
RCD functional test	Every 6 months	Qualified electrician
Charging cable insulation test	Every 6 months	Qualified electrician

8.1.1. Care

DANGER!

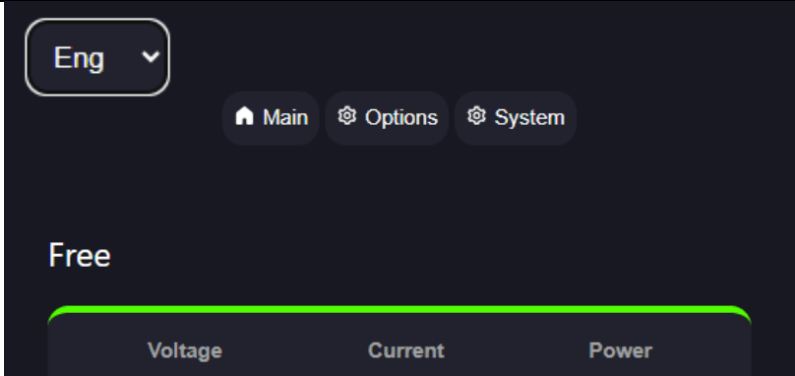
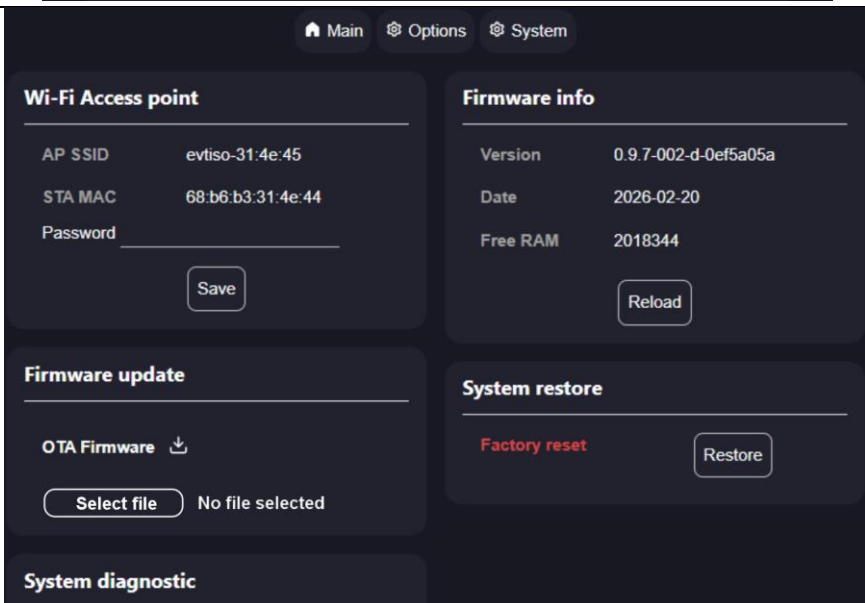
- Risk of electric shock, explosion, or arc flash.
- Do not spray water on this equipment.
- Do not clean the equipment while the charging station is connected to the power supply.
- Failure to follow these instructions will result in serious injury.

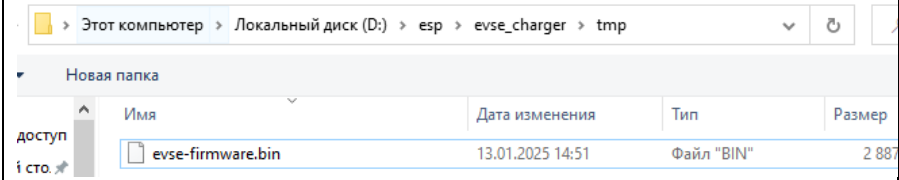
8.1.2. Cleaning

Abrasive cleaning agents or sponges may damage the charging station enclosure.

- Clean the charging station using a soft, dry cloth.
- Do not use aggressive detergents, solvents, abrasive sponges, or water jets to clean the charging station.
- Use special glass cleaning wipes for cleaning the glass surface.

8.2. Software update

1. Open the charging station web page.	
2. Go to the «System» menu. In the «Firmware update» section, click «Select file».	

3. Select a .bin file.	
4. Click the «Upload» button	 to start the update process.

9. TROUBLESHOOTING

Error	Possible solution
RCD tripped	- Turn off the upstream circuit breaker at the charging station input. - Check the power cable and charging connector for damage.
RCD self-test error	- Restart the charging station. - Contact the manufacturer's service department.
Ground fault	- Restart the charging station. - Check the integrity of the charging station power cable. - Verify that proper grounding is available at the installation site.
Contactor fault	- Turn off the upstream circuit breaker at the charging station input. - Contact the manufacturer's service department.
Overtemperature	- Disconnect the charging connector from the vehicle and allow the station to cool down. - Check ambient conditions and ensure there are no nearby heat sources.
Overcurrent	Contact the manufacturer's service department.
Undervoltage	- Contact the manufacturer's service department. - Reduce the vehicle charging current.
Overvoltage	Wait until the grid voltage stabilizes.
Connector plugged in but charging does not start	- Ensure the connector is properly inserted by unplugging and reconnecting it. - Check that the charging station is unlocked.
No LED indication on the front panel	- Check the power cable - Check the circuit breaker in the distribution panel and the building main breaker. - The charging station may be faulty. Contact the manufacturer's service department.
Charging session interrupted	Check the vehicle's onboard computer.

10. PRODUCT DISASSEMBLY

The charging station shall be dismantled in the reverse order of installation (see Section 5.2).

11. PRODUCT DISPOSAL



Follow local waste disposal regulations.

- **Product:** dispose of as electronic waste.
- **Packaging:** dispose of as household waste.



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Our equipment meets the requirements of European standarts:

EN IEC 61851-1:2019, EN 61851-23:2014, EN 61851-24:2014,

EN IEC 61439-1:2021, EN IEC 61439-2:2021,

EN 62196-1:2014, EN 62196-2:2017, EN 60529:1991,

EN IEC 61000-6-1:2019, EN IEC 61000-6-3:2021

and meets the requirements of the following EU Directives:
2014/35/EU; 2014/30/EU

