



EV CHARGER **USER MANUAL**



Thank you for choosing the Inocharge electric vehicle charger. Your electric vehicle charger has been manufactured using modern technologies and has undergone rigorous quality control procedures. This manual has been prepared to help you use your device in the most efficient and safest way possible. Our product offers ease of use by providing solutions best suited to your needs. By performing regular maintenance on your device, you can ensure long-term and trouble-free operation. Designed to deliver the best performance, this device has been developed using environmentally friendly production methods and is manufactured with the goal of a sustainable future.

Since vehicle chargers are used to meet the charging needs of electric vehicles, they can be installed in garages, parking lots, and similar locations. Due to the complex structure of the cable and electronic components in the product, please do not disassemble or replace the cables or electronic parts yourself. Inotel is not responsible for any damages that may occur in such cases and cannot be held liable for any resulting personal injuries.

1 - DEVICE OVERVIEW	4
- Main Features	4
- Visual Introduction of the Device	6
2 - WARNINGS AND SAFETY	8
- Safety During Installation	8
- Safe Use of the Device	9
3 - DEVICE INSTALLATION	12
- Installation Preparation	12
- Materials Required for Installation	12
- Installation Steps	13
4 - USING THE DEVICE	17
- Meaning of LED Indicators	17
- Using the User Card	18
- Resetting the Device to Factory Settings	20
- Charging the Vehicle	20
5 - WEB INTERFACE	22
- Introduction	22
- Connecting to the Charging Station	23
- Web Page Overview	24
- Communication Status LED	35
6 - MOBILE INTERFACE	36
- Introduction	36
- Using the Mobile Application	36
7 - MAINTENANCE AND CLEANING TIPS	42
- Regular Maintenance	42
- Cleaning Recommendations	42
- Storing the Device	43
8 - FREQUENTLY ASKED QUESTIONS	44
9 - WARRANTY CERTIFICATE	49
10 - WARRANTY TERMS	50

DEVICE OVERVIEW

Inocharge is designed to provide electric vehicle owners with a fast, reliable, and user-friendly charging experience. Featuring alternating current (AC) charging capability and offering users various power options (7 kW, 11 kW, and 22 kW), this device can be safely used both at home and in commercial areas. Thanks to Wi-Fi and Ethernet connectivity options, users can monitor and control the charging process remotely. The Inocharge vehicle charger is compatible with Type 2 connectors and serves a wide range of vehicles.

MAIN FEATURES

Inocharge stands out with its powerful, safe, and versatile design. Here are the key features of the device:

Charging Power : Offers 7 kW, 11 kW, and 22 kW options, allowing vehicle batteries to be charged at different speeds. These options provide suitable solutions for various electrical infrastructures and vehicle capacities.



Inocharge will supply the charging power specified by your vehicle's manufacturer, up to 22 kW.



Voltage and Current Ratings : The power specifications of the product are as follows:

Voltage : 400V AC $\pm 10\%$ (L-L)

Current : Maximum 32A

These power ratings ensure that charging operations are carried out safely and efficiently.

Connector Type : With "Type 2" connector options compliant with the IEC 62196-2 standard, it is compatible with various vehicles. This standard offers a safe and widely accepted charging experience.

Cable and Connection Features : The electrical connection between the device and the grid is provided via a 2-meter power cable attached to the device. The connection between the device and the vehicle is made using an external socketed connection cable (not included with the product) in the socketed model, while in the cable model, it is made through Inocharge's 5-meter charging cable and plug.

Connectivity Options : The charging station can be connected to the internet either via a wireless Wi-Fi connection or by connecting an Ethernet cable to the RJ45 socket located on the device's electronic board. Thanks to the internet connection, the device can be controlled remotely. Users can start and stop the charging process and monitor the device status through the Inocharge mobile application.

Charging Status Indicator : The charging status of the device can be easily monitored through LED indicators. Different colors indicate the stage of the charging process.

Mobile Application Integration : Inocharge mobile application integration allows users to monitor and manage the charger via the mobile app.

Charging Mode : It uses a Mode 3 charging system compliant with the IEC 61851-1 standard. This mode allows electric vehicles to be charged safely and quickly.

User Authentication : Secure usage is ensured through authentication via the Inocharge mobile application or an RFID card registered to the device. Each user can share the charger only with authorized individuals.

Device Design and Color Options : Thanks to its stylish and compact design, the Inocharge vehicle charger offers an aesthetic appearance while saving space. With the optional color options we provide, you can make the device more compatible with your environment.

Operating and Storage Temperature Ranges : Wide operating and storage temperature ranges ensure that the device operates safely even under harsh weather conditions.

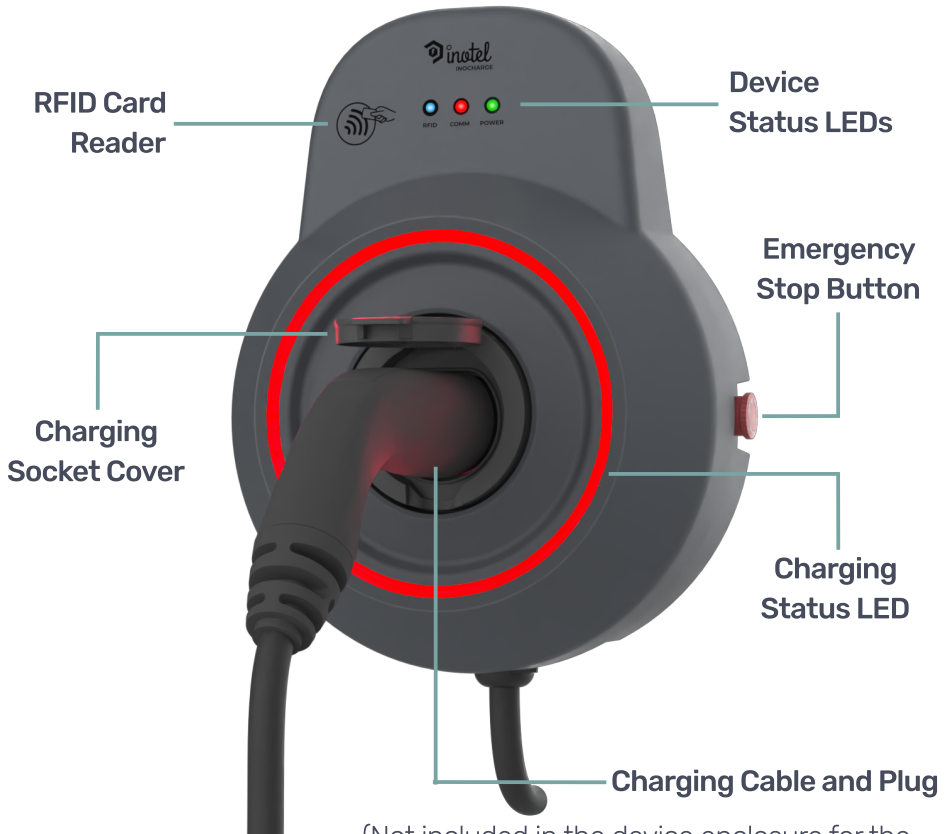
> **Operating Temperature :** Between -25°C and 60°C

> **Storage Temperature :** Between -40°C and 70°C

Safety : The device includes a residual current relay with a 30 mA threshold for safety purposes. Additionally, there is an emergency stop button that can be used if external user intervention is required in an emergency. Pressing this button will prevent the vehicle charging process from starting or will stop it if it has already started.

VISUAL INTRODUCTION OF THE DEVICE

The Inocharge vehicle charger is specially designed to allow the user to utilize the product more functionally. Below are the names of the cables, buttons, sockets, and lights located on the device.



(Not included in the device enclosure for the wireless model; the user must supply it separately.)

(In the wired model, there is not socket on the device, so a single-ended plug is provided.)

WARNINGS AND SAFETY

To use your electric vehicle charger safely, it is extremely important to pay attention to the following safety warnings. Incorrect use of the device may cause damage to the device as well as serious injuries or accidents such as fires. Please read and follow these warnings carefully.

SAFETY DURING INSTALLATION

The installation of the device must be carried out only by authorized personnel. Incorrect installation may cause electric shock, fire, or device malfunction.

For safety reasons, the socket to which the device is connected should be positioned at a height of at least 0.5 meters and at most 1.5 meters above ground level. This height range helps ensure proper ventilation and safe connection conditions for the device.

To ensure the safe operation of the device, it is recommended to use a Direct Current Switch and an RCD (Residual Current Device) properly connected to your building's electrical network. This provides additional safety against both electric shock and explosion risks.

Your device is suitable for both indoor and outdoor use. When installing outdoors, make sure that the cable you use is suitable for external environments.

Do not mount your device on the ceiling or sloped walls.

Grounding : Ensure that the charger is properly grounded. Incorrect grounding increases the risk of electric shock. Since the installation of the device is the responsibility of the user who purchased the product,

Inotel is not responsible for any problems resulting from improper grounding.

SAFE USE OF THE DEVICE

To use your Inocharge electric vehicle charger safely, it is extremely important to pay attention to the following safety warnings. Incorrect use of the device may cause damage to the device as well as serious injuries or accidents. Please read and follow these warnings carefully.

Device Connection : Before connecting the charger to the vehicle, ensure that the plug and sockets are completely dry. Moist or wet connections can cause short circuits or electric shock.

Cable Inspection : Regularly check the charging cable. Do not use damaged or worn cables, and consult authorized service as soon as possible. Damaged cables can cause fire or electric shock.

Exposure to Liquids : The Inocharge vehicle charger is designed with an IP65 protection rating, making it resistant to water splashes, rain, and dust. Charging can be performed even in rainy weather. However, to prevent the risk of electric shock and fire, protect the device during heavy rain and stormy conditions, and do not wash it by pouring water directly on it.

Use of Accessories : The use of converters and adapters with this device is not appropriate.

Use at Proper Voltage : Ensure that the voltage supplied from the grid is within the range specified by the manufacturer for the proper operation of the device. Incorrect use may cause damage to the device or your vehicle and lead to safety issues.



During the charging process, keeping your vehicle under supervision will ensure a safer charging experience.



Keep Away from Children : Make sure to place the device in a location out of reach of children.

Do Not Modify the Device : Do not make any modifications to the device or attempt unauthorized repairs. This may void the device warranty and cause hazardous situations.

Ambient Temperature : Use the charging station in environments where the ambient temperature is between -35°C and $+55^{\circ}\text{C}$.

Protection from Heaters : Do not use the charging station near heat sources.

Explosion Risk : This charger does not require ventilation, but it is normal for the device to heat up during consecutive use. Therefore, if the device is expected to be used intensively, it should be placed in an open area and checked for overheating. Considering that the device may produce sparks, it must never be exposed to flammable vapors or explosive substances.



Do not keep flammable or explosive materials around the device during charging. Static electricity or a possible spark may cause serious accidents.





If you notice any unusual smell, sparks, or smoke during the charging process, immediately stop charging and unplug the vehicle. For safety, contact an authorized service center.



Risk of Electric Shock : Always seek assistance from authorized personnel when making the electrical connections of the device. Do not attempt to open the charger in case of any electrical malfunction. Ensure that the power is turned off when working on devices connected to the grid.

Before using the device, make sure your hands are dry. Handling with wet hands increases the risk of electric shock.

The device automatically disconnects from the grid in cases of overcurrent or short circuit. When this system is activated, you should seek assistance from a technician before using the device again.

Fire Risk : Proper installation of the device reduces the risk of fire. Ensure that the device is connected to the correct power source and that the installation instructions are fully followed.

During use, do not forget to regularly inspect the charging cable to ensure it is not worn or damaged.

Access to the Charger : Access to the device must be protected by the user authentication system in the Inocharge application. Unauthorized persons should be prevented from using the device.

Fault Condition : Do not attempt to repair the charging station yourself in case of a malfunction; contact an authorized service center.

DEVICE INSTALLATION

INSTALLATION PREPARATION

Before starting the installation of the Inocharge vehicle charger, the following steps should be carefully reviewed:

Electrical Infrastructure Suitability : The electrical infrastructure at the installation site should be checked to ensure it meets the device's requirements. Specifically, a grid connection suitable for the operating voltage of the device (400V AC) is required.

Selection of Installation Area : To ensure long-lasting operation of the device, it should be protected from direct exposure to external elements such as rain, snow, or excessive sunlight. This will help extend the lifespan of the device.

Expert Assistance : The installation must be carried out by authorized personnel. High-power electrical connections involve procedures that require expertise, and it is important for these tasks to be performed by qualified professionals to ensure safety.

MATERIALS REQUIRED FOR INSTALLATION

The following materials should be prepared during installation:

- Drill and screwdriver set
- Charging device mounting bracket
- Electrical cables with 5 x 6 mm² cross-section
- The device itself and connection components



A 2m connection cable and connection accessories are included in the box with the device.



INSTALLATION STEPS

When determining the installation location of the device, a suitable position should be selected by taking into account the 5-meter cable length that will be used between the vehicle and the charging station.

If the device is to be wall-mounted, it is recommended to install it at a height of 1.2 meters from the ground to ensure proper operation. For safety reasons, the lowest part of the socket connected to the device should be between 0.5 meters and 1.5 meters above ground level. This height range helps ensure proper ventilation and safe connection conditions for the device.

Your device is suitable for both indoor and outdoor use. When installing it outdoors, make sure that the cable used is suitable for outdoor conditions.

When selecting the installation location for the device, you should choose a place that ensures the device remains upright.

The installation area should be free from extreme heat, cold, or humidity. The operating temperature range of the device is between -25°C and 60°C.



Do not mount your device on ceilings or sloped walls.



Grounding : Ensure that the charging device is properly grounded. Improper grounding increases the risk of electric shock. Since the installation of the device is the responsibility of the user who purchased the product, Inotel is not responsible for any issues arising from incorrect grounding.

Mounting the Bracket to the Wall : The mounting bracket provided must be securely fixed to the designated installation point. Use a drill to create holes for the screws and fasten the bracket to the wall with appropriate wall plugs.

Ensure the bracket is firmly attached to the wall; otherwise, the device cannot be safely mounted.

Preparing Electrical Cables : Prepare the electrical cables for connection and make sure to use the correct cable cross-sections (5 x 6 mm²). Connect the grounding wire properly. A proper grounding connection is essential for the safe operation of the charging device.



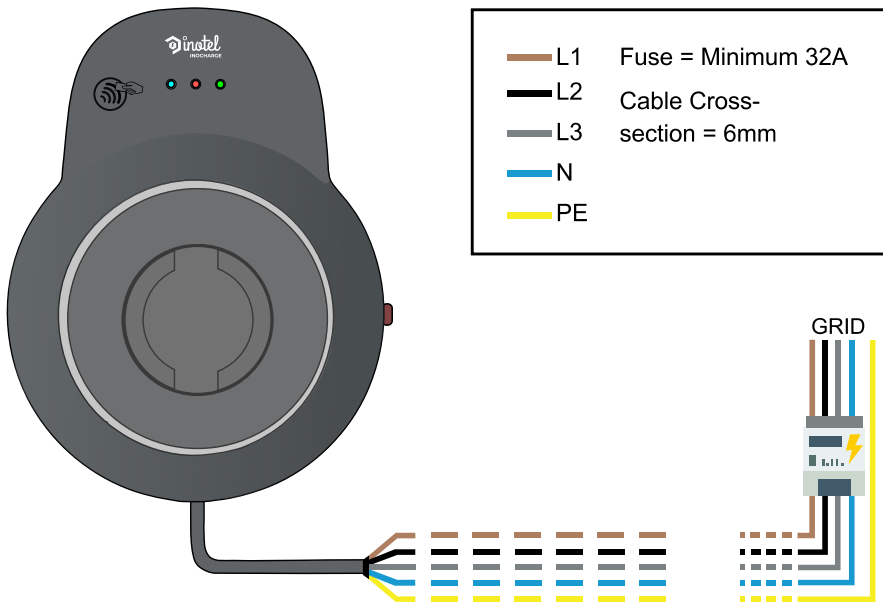
During the electrical connection process, the mains power must be disconnected and necessary safety precautions should be taken.



Mounting the Charging Device : The device is placed onto the mounting bracket that has been previously fixed to the wall. Ensure that the device is securely seated and fastened onto the bracket. This step ensures the safe use of the device.

Making the Electrical Connection : The electrical connections of the device must be integrated into the facility's existing electrical infrastructure. L-L-L (phase-phase-phase), neutral, and grounding cables must be connected in the correct order and securely fastened. The charger's cables should be properly arranged, and any risk of bending or crushing must be eliminated.

Electrical Connection Diagram



The AC grid connection and load planning must be carried out in compliance with the regulations; Inotel is not responsible for any damages resulting from errors made in this regard.



Wi-Fi / Ethernet Connection : The device's internet connection can be made via Wi-Fi or Ethernet cable. If Wi-Fi is used, the necessary settings for connecting the device to the local network will be configured through the web interface. If Ethernet is used, the Ethernet cable should be connected directly to the device and the internet provider. This connection allows charging operations to be monitored and controlled remotely.

Testing the Device : After the installation is complete, power on the charging device and test all its functions to ensure it is operating correctly.

The LED indicators show the device status :

- Green light indicates the device is ready.
- Blue light indicates that charging has started.
- Red light indicates a fault.

Monitor the device status by observing these indicators. Check the charging status through the Inocharge mobile app. Using the app, you can start the charging process and test all functions remotely.

USING THE DEVICE

MEANING OF LED INDICATORS

The Inocharge vehicle charger aims to enable users to charge their vehicles quickly and conveniently. Accordingly, after establishing the connection between the charger and the vehicle, the charging process can be quickly started using a card or via the mobile application. Different LED lights on the device indicate various charging statuses for the user to monitor. Additionally, the charging process can also be tracked through the mobile application.

Device Status LEDs : There are three different device status LEDs on the device: blue, red, and green. The device status LEDs are arranged side by side immediately to the right of the RFID card reader.

Blue : This LED does not remain lit while the device is powered or operating. It lights up only once when an RFID card is scanned, then immediately turns off.

Red : This LED blinks at regular intervals when the device is connected to the internet. If the internet connection is lost, the red LED turns off completely.

Green : This LED blinks continuously as long as the device is connected to the power grid. It is not related to whether a vehicle is connected or not.

Charging Status LEDs : The charging status LED is a circular indicator located at the center of the device and can light up in three different colors; blue, red, and green.

If the LED is off, it means the vehicle has not yet been connected to the charger.

Blue : Indicates that a wired connection between the device and the vehicle has been successfully established.

Green : Indicates that the charging process has started.

Red : Indicates an error or fault condition.

USING THE USER CARD

The Inocharge vehicle charger is equipped with various modes that offer flexibility to the user. Your device is configured by default to operate in authorized charging mode. The authorized charging mode is activated using the main user card provided with the device. Additionally, the main user card is used to create new users who will use the device.

RFID (User Card) Authorization : Your charger comes with one master card and one member card by default. The master card is pre-registered to the device. To register a member card :

- > Press the emergency stop button.
- > Hold the master card near the RFID reader for 5 seconds, then hold the member card you wish to register for another 5 seconds.
- > Once the member card is successfully registered, release the emergency stop button.

The LED indicators will reflect the current status of the device :

Green : Device is ready

Blue : Charging has started

Red : An error has occurred

Monitor these LEDs to follow the status of the charger.



***If the OCPP configuration has been completed,
the member cards and master card registered
on the device will no longer be used.***



> On a device with configured OCPP settings, to start the charging process via the Inocharge application or by scanning an RFID card, local registrations must be sent to the device through your OCPP server. To register a new card, connect your electric vehicle to the device, then scan your new card and send a request to the OCPP server. Afterward, complete the card registration process in the system that uses the OCPP server.

RFID Authorization List : If the RFID authorization list in the mobile application is empty, charging can only be started using the main user card. An unregistered card cannot initiate the charging process. Charging can also be started through the application using accounts registered to the device (accounts defined with the main card or member cards visible in the RFID authorization list in the mobile app) without a card.

Card Scan Status and LED Notifications : When an RFID card is scanned and the card is compatible with the device, whether registered or not, the blue LED on the device lights up. This indicates that the card has been read correctly and the device is ready to proceed. If the scanned card is registered to the device, the charging process will start. If the scanned card is not registered, the blue status LED will light up, but the charging process will not begin.

RESETTING THE DEVICE TO FACTORY SETTINGS

If OCPP configuration is set, when the device is in emergency stop mode, scanning the main card for 20 seconds will reset the device to factory settings. If OCPP configuration is not set, when the device is in emergency stop mode, scanning the main card or any registered card for 20 seconds will reset the device to factory settings.



The device can also be reset to factory settings via the mobile application or the web interface.



CHARGING THE VEHICLE

Connecting the Vehicle and the Charger : Before starting the charging process, if there is a fuse between the grid and the device, the fuse should be turned off and then turned on to supply power to the device. Afterward, the user inserts the double-sided connector plug first into the charger socket and then into the vehicle socket. (In the wired model, the device's plug is connected directly to the vehicle socket.)

Starting the Charge : Make sure your vehicle and the charging station are ready for charging.

Insert the charging plug into the vehicle's charging port and the station's socket (for the socket model). In this case, the blue charging status LED (circular LED) will light up.

Then, scan your card. The charging process will start, and once the electric vehicle begins drawing current, the charging status LED indicator (circular LED) will light up green.

USING THE DEVICE

INCHARGE



Open the socket
cover.



Plug the connector
into the vehicle and
charger sockets



Scan your RFID
card to start
charging.

Stopping the Charge : To stop the charging process, scan your RFID card again and unplug the charger from the vehicle. Then, disconnect the cable from the charging station (for the socket model). Do not remove the cable from the charging station without stopping the charging first.



Disconnect the charging cable from the vehicle initially. Do not attempt to unplug the cable from the station before removing it from the vehicle, as this may damage the locking mechanism.



WEB INTERFACE

INTRODUCTION

Web Interface : The web interface can be used to view and modify information related to the charging station.

> You can access the web interface of the Inocharge charging device as long as you are within its personal access point range.

> To log in, use the password found on the label inside the device box. This value can be changed from the configuration page.

> If the device is connected to a modem and the connection is active, access can be made via the local IP address.

> By default, the web interface automatically shuts down 2 minutes after the device is powered on if no one is connected. This value can be changed from the configuration page.

> This charging station uses Coordinated Universal Time (UTC+0) as the basis for all time-related operations.

Features :

> **Status :** Contains all status information about the device.

> **Watch :** Displays current measurements such as voltage, current, frequency, power, etc. Emergency stop button and leakage current status can also be monitored here.

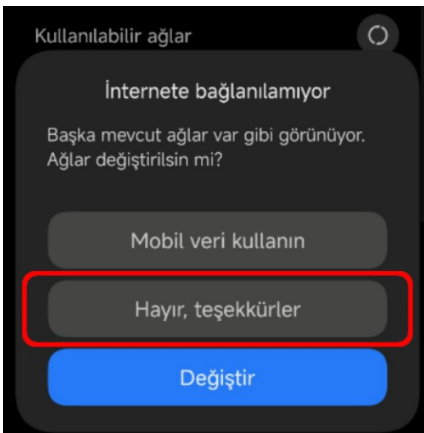
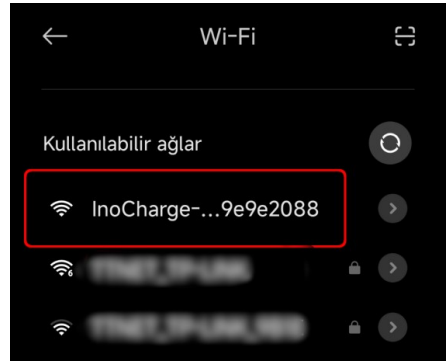
> **Configuration :** Allows you to perform all configuration and customization operations for the device.

Downloads : Charging usage data, notifications, and error logs related to the device can be downloaded from here.

CONNECTING TO THE CHARGING STATION

Open the wireless settings menu on your digital device. In the list of available networks, find the Inocharge EV charger. Each Inocharge charging device appears in the network list as "Inocharge-xxx", with a unique identifier.

When you attempt to connect to the "Inocharge-xxx" network, your device may display a warning like "No Internet" because the Inocharge device does not provide internet access. Your device may also try to switch to another network to restore internet connectivity.



To maintain communication with the charger, you must reject any request to switch networks. For example, when prompted "Switch to another network?", choose "No, thanks" to stay connected.

Once connected, open your browser and type 192.168.4.1 in the address bar, then press enter. If the "connecting"

message doesn't disappear within 10 seconds, refresh the page. On the login screen, enter the 8-digit PIN code found on the label inside the product box. You will then be connected to the Inocharge web interface, starting on the Status page. To navigate to other pages, use the drop-down menu located in the top-right corner.

WEB PAGE OVERVIEW

Status Page :

1. **Reboot Device** : Restarts the device's processor.

2. **Factory Reset** : Resets the device's processor to factory default settings.

3. **Date** : Displays the last update date of the information.

4. **Sessions** : Indicates the number of users currently connected to the web interface.

5. **RFIDCounts** : Shows the number of registered member cards.

Network	
Type	WIFI
Available	●
Connected	●
Status	NoApFound
IP	0.0.0.0
RRSI	-127 dBm

Status	
Reboot Device	
Factory Reset	
Date	2000-01-01T00:03:03Z
Sessions	2
RFIDCounts	0
Network	6 items ▶
OCPP	4 items ▶
System	7 items ▶

6. **Network** : Provides general information about the device's internet connection status.

Type : Indicates the type of network connection.

Available : Shows whether the selected connection type

(Ethernet or Wi-Fi) is available.

Connected : Indicates whether the device is successfully connected to a network providing internet access.

Status : Displays detailed information about the current state of the internet connection.

Example status messages :

- GotIp : IP address acquired
- WrongPassword : Incorrect Wi-Fi password
- NoApFound : Wi-Fi network not found

IP : Shows the device's IP address on the network.

RSSI : If Wi-Fi is selected, shows the strength of the received Wi-Fi signal. This field is not displayed in Ethernet mode.

7. OCPP : Displays the status information of the OCPP protocol mentioned in the previous section.

Configured : Indicates whether OCPP configuration has been completed.

Connected : Shows the connection status with the OCPP server.

OCPP	
	4 items ▾
Configured	●
Connected	●
Ready	●
MessageQueue	0

Ready : Confirms that the OCPP server is connected and read.

MessageQueue : Displays the number of messages queued to be sent when the server becomes accessible again.

8. System : Provides general system status information.

SW : Displays the software version of the charging station.

SDCard : Indicates whether the integrated SD card has been detected by the system.

RTC : The Real-Time Clock module that stores the device's time data.

Ethernet : Indicates whether the Ethernet interface is ready for use.

Load : Shows the current processing load of the EV charger.

Temperature : Displays internal temperature of the charging station.

UpdateStatus : Indicates the update status of the charging station.

System	7 items ▾
SW	1.1.131.25.3.18
SDCard	
RTC	
Ethernet	
Load	46.70%
Temperature	53.33°C
UpdateStatus	Idle

Watch Page : This page provides real-time information about the electric vehicle, measurement values, and device status.

1. Connector : Shows whether the vehicle is connected to the charging station.

2. State : Displays the current operational state of the station. Possible states include : Available, Preparing, Charging, Finishing, Unavailable.

Watch 
Connector 
State Available
Date 2000-01-01T00:03:24Z
ChargeSession 6 items ▶
General 4 items ▶
Phase 1 5 items ▶
Phase 2 5 items ▶
Phase 3 5 items ▶

3. Date : Shows the date and time of the last data update.

4. **ChargeSession** : If charging is in progress, current session information is displayed here.

5. **General** : Displays general information about the charging station.

6. **Phase*** : Displays detailed information about the electrical phases.

Configuration Page : The Configuration page contains all the setup options for the device. Connection type and Wi-Fi settings are configured here.

1. **Network** : This section allows you to connect the device.

ConnectionType : Determines how the device will connect to the internet.

SSID : The name of the Wi-Fi network to connect to.

Password : The password of the Wi-Fi network.

The screenshot shows the 'Configuration' page with the 'Network' tab selected. The 'ConnectionType' dropdown is set to 'WIFI'. The 'SSID' field contains 'ARGE_ONLY_WIFI'. The 'Password' field is masked with dots and has an eye icon to toggle visibility.



If Wi-Fi is selected as the connection type, both SSID and Password fields are required.



2. **Device** : Some configurations related to the web interface and the charging station can be set here.

CustomName : Defines the name that the charging station will appear as in the Wi-Fi list or the mobile app. By default, it uses the device's unique identifier.

NTP : If enabled, the device will automatically synchronize the time over the internet.

NTPInterval : Specifies how often (in minutes) the charging station updates its time.

PowerMode : Selects the power level at which the vehicle will be charged. Available options : 7 / 11 / 22 kW.

The screenshot shows the 'Configuration' page with three tabs: 'Network', 'Device', and 'ChargePoint'. The 'Device' tab is active. It contains the following settings:

- CustomName**: A text input field containing the value 'e05a1b6cae8c'.
- NTP**: A checkbox that is checked (indicated by a red checkmark icon).
- NTPInterval**: A text input field containing the value '20'.
- PowerMode**: A dropdown menu showing '22'.
- PhaseType**: A dropdown menu showing 'Tri'.



It is recommended to rename CustomName for security reasons.



If OCPP is configured, the NTP and NTPInterval sections will be disabled and managed by the OCPP server.



PhaseType : There are two options : Tri and Mono.

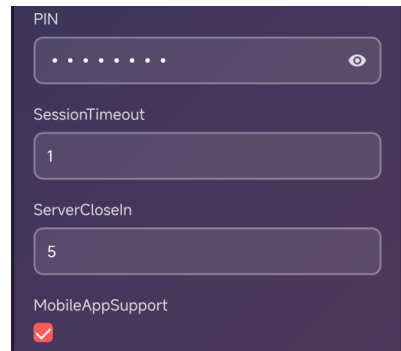
- Tri : Select this option to use 3 phases. Charging will stop if any phase is missing.

- Mono : Charging continues as long as at least one phase is available, though at a slower rate if any phase is missing.

PIN : Used to access the web interface. The PIN must be 8 digits long; otherwise, it will not be accepted.

SessionTimeout : Defines how many seconds after login the session will automatically end. The minimum is 1 minute, and the maximum is 60 minutes.

CloseIn : Specifies how many seconds the web interface will remain open. If someone is connected, the interface will stay open. Minimum is 0 minutes, and maximum is 60 minutes. If set to 0, the interface will always stay open. If set to 60, and no one is connected within 60 minutes of the session start, the interface will close. The user can return to the page within 60 minutes without re-entering the PIN. After the Timeout period, PIN entry will be required. If the CloseIn time has passed, the session will automatically terminate, and the device must be power-cycled to restart the interface.



The screenshot shows a configuration interface with a dark purple background. It contains four settings:

- PIN**: A text input field with 8 dots and an eye icon on the right.
- SessionTimeout**: A text input field containing the value '1'.
- ServerCloseIn**: A text input field containing the value '5'.
- MobileAppSupport**: A toggle switch that is currently turned on, indicated by a red checkmark icon.



The web interface stays open while a user is connected, and shuts down within 2 minutes after the last one disconnects.



3. ChargePoint (OCPP) : This section contains the configuration settings needed to connect the charging station to OCPP.

ChargePointIdentity : The identity of the charging station. Enter the name assigned to the station on the server.

4. CentralSystem : Settings under this section are explained in detail in the "OCPP Configuration" section.

CentralSystemHostName: The address of the OCPP server. This can be a domain name (e.g., `ocpp.example.com`) or an IP address (e.g., `192.168.1.100`).

Example : If you want to write the entire "CentralSystemHostName", it is sufficient to enter;

"ocpp.examplewebsite.com:8080/example/path/CentralSystemService"

in the information section.

CentralSystemPort : The port number used by the OCPP server for connections.

CentralSystemPath : The path following the IP address, indicating

The screenshot shows the 'Configuration' tab with the 'ChargePoint' sub-tab selected. The 'ChargePointIdentity' field contains 'Inotel-Brank', 'ChargePointVendor' contains 'Inotel', and 'ChargePointModel' contains 'InoCharge'.

The screenshot shows the 'Configuration' tab with the 'CentralSystem' sub-tab selected. The 'CentralSystemHostname' field contains '192.168.10.246', 'CentralSystemPort' contains '8080', and 'CentralSystemPath' contains 'steve/websocket/CentralSystemService'. There are also checkboxes for 'SSL' and 'BasicAuthentication', both of which are currently unchecked. The 'BasicAuthenticationUsername' and 'BasicAuthenticationPassword' fields are empty.

which section of the server to connect to.

SSL : Enable this if SSL is required for the OCPP connection.

BasicAuthentication : If the server requires authentication during the initial connection, these credentials must be provided.

BasicAuthenticationUsername : Username provided by the OCPP server.

BasicAuthenticationPassword : Password provided by the OCPP server.

5. Update : The device's software updates can be managed from this page. Updates can be performed either via the OCPP server or the web interface. Internet access is required.

UpdateLocation : The URL where the update file is located.

UpdateRetrieveDate : If the update information is sent by the OCPP server, the date will be displayed here.

UpdateRetries : Defines how many retry attempts will be made in case of an error. For example, if set to 2, the device will try once normally and retry two more times.

UpdateRetryInterval : Sets how many seconds to wait before retrying after an error.

Configuration

ChargePoint CentralSystem **Update**

Update

UpdateLocation

UpdateRetrieveDate

UpdateRetries

2

UpdateRetryInterval

60

DoUpdate ☐

DoUpdate : Enable this option to perform the update via the web interface.

Update steps :

- 1 - Enter the update URL in the "UpdateLocation" field. Make sure "DoUpdate" is enabled. Click the "Submit" button.
- 2 - Follow the update status under Status -> System -> UpdateStatus.
- 3 - Track statuses such as Downloading and Installed. If you see "Installed," proceed to step 7.
- 4 - If you see a "Failed" message, download the log from the "Downloads" page to determine the cause.
- 5 - Restart the device.

Your device is now successfully updated. After completing the software update steps, the device must be restarted. However, do not restart the device again within 1 minute of the first restart. If restarted earlier, the update will be canceled and the previous software version will be restored, along with its configuration settings.



After a software update, keep the device powered on for at least 1 minute after the first reboot.



During configuration of the charging station, by clicking the white downward arrow located between the "Discard" and "Submit" buttons, you can open a section to either download or upload configurations. The device PIN is also included in this information.

Upload : Used to upload a previously saved configuration. The configuration will not be applied to the device unless the "Submit" button is pressed.

Download : Used to download the current configuration from the charging station to your digital device.

Applying Configuration :

Once a configuration is uploaded and the "Submit" button is pressed, the configuration is sent to the device. After this, a summary of changed parameters will be displayed:

Accepted : If this appears next to a parameter, the changes have been applied immediately or will take effect during the next charging session.

RebootRequired : Indicates that the device must be restarted for the changes to take effect.

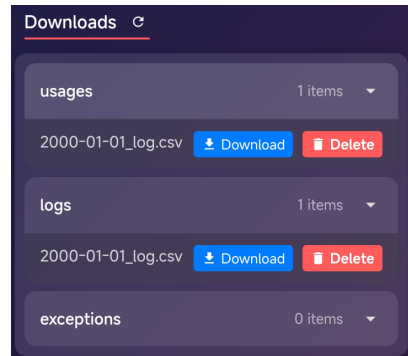
Rejected : Indicates that the change was not applied. The entered value was not accepted under current rules.

The screenshot shows the 'Configuration' web interface with the 'Network' tab selected. The interface includes three tabs: 'Network' (active), 'ChargePoint', and 'CentralSystem'. Under the 'Network' tab, there are three input fields: 'ConnectionType' (set to 'WIFI'), 'SSID' (set to 'Inotel-AP'), and 'Password' (masked with dots). Below these fields are two buttons: 'Upload' and 'Download'. At the bottom, there are two buttons: 'Discard' (red) and 'Submit' (green).

Downloads Page : This section allows you to download and manage various records and log files from the device.

1. Usages : Contains information related to the device's charging sessions. The following details can be viewed:

- StartRFID : RFID used to start the charging session
- StopRFID : RFID used to stop the charging session
- StartName : Name of the user who started the charging session
- StopName : Name of the user who stopped the charging session



- StartMobileID : Application code used to start the charging session
- StopMobileID : Application code used to stop the charging session
- StartDate : Charging session start date
- StopDate : Charging session end date
- Duration : Duration of the charging session
- PowerUsage : Amount of power used
- StopReason : Reason for stopping the session



If a card is scanned but the charging does not start, the reason will also be displayed in this section.



2. Logs : Contains basic operational records of the device.

3. Exceptions : Includes error logs collected during device crashes or abnormal situations.

Note : All records can be deleted or downloaded. The device stores data from the last 15 days in its internal memory. Thanks to the integrated SD card, up to 90 days of data can be stored on the SD card.

COMMUNICATION STATUS LED

Blinks once every 32 seconds : Indicates that no Wi-Fi or Ethernet option has been selected in the Configuration section.

Blinks once every 16 seconds : Indicates that internet configuration has been made, but the connection has not yet been established. If Wi-Fi is selected, the Wi-Fi credentials may be incorrect.

When OCPP is configured :

- Blinks once every 8 seconds : Not connected to the OCPP server.
- Blinks once every 2 seconds : Connected to the OCPP server.

When OCPP is not configured :

- Blinks once every 2 seconds : The system is connected to the internet.

MOBILE INTERFACE

INTRODUCTION

Mobile Interface :

- > You can access the mobile interface as long as you are within the personal access point range of the Inocharge charging device.
- > To log in, use the password on the label included inside the device box. This value can be changed from the configuration page.
- > If the device is connected to a modem and the connection is active, it can be accessed via its local IP address.

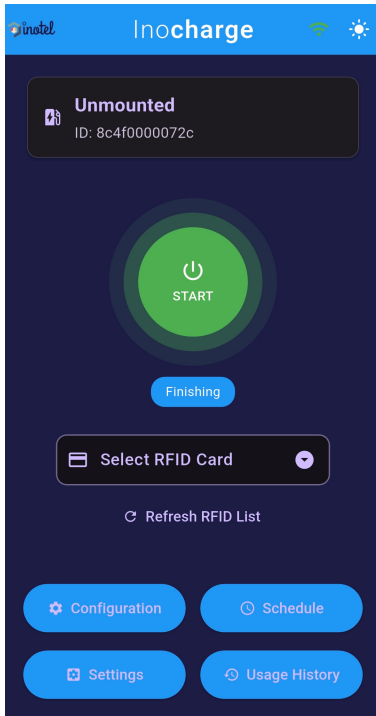
Features :

- > **Start / Stop** : You can manually start or stop the charging session.
- > **Configuration** : You can perform all configuration and customization operations of the device.
- > **Schedule** : You can create weekly schedules to automatically start and stop charging sessions.
- > **Usage History** : You can view detailed information for all charging sessions. Reports include data such as date, duration, energy consumed, and session cost, allowing you to track your usage.

USING THE MOBILE APPLICATION

Device Scanning : When the application is launched, you can scan for charging devices on the same network using the "Scan Devices" button. After the scan, the detected charging devices are listed. To connect to a selected device from the list, the device password is

required. After entering the password, tap the "Connect" button to establish a connection.



Main Screen : After successfully connecting to the device, the main control screen is displayed.

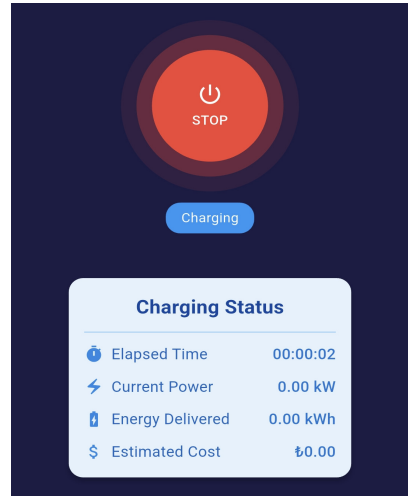
In the top right corner, a green Wi-Fi icon indicates that the device is connected, and next to it is a button to toggle between light and dark mode for the theme. At the top, the device name and ID are shown. By default, the name is the same as the ID. In the center, a green "START" button and the status "Available" are displayed.

The "Select RFID Card" section allows you to choose the RFID card required to start/stop the charging session.

Only registered user cards are visible in this section; the master RFID card is not shown. At the bottom, there are access buttons for the following menus: 'Configuration', 'Schedule', 'Settings', 'Usage History'.

Charging Process :

- Press the green "START" button to begin charging.
- When charging is in progress, a red "STOP" button appears.
- During charging, information such as elapsed time, current power, energy delivered, and estimated cost are displayed.
- To end the charging process, press the "STOP" button.



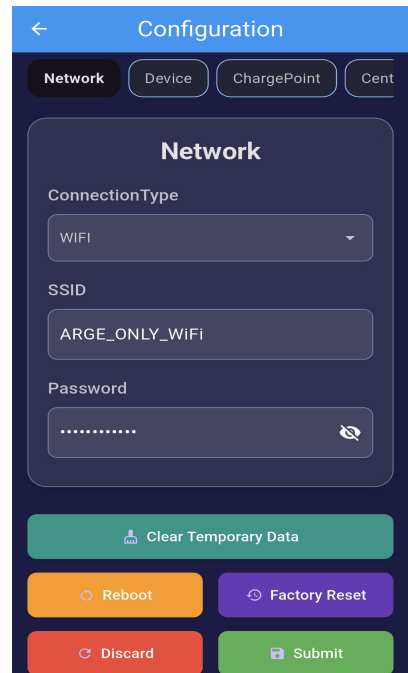
Configuration : The structure is identical to the web interface. The following buttons are located at the bottom:

Clear Temporary Data : Deletes temporary data stored on the device

Reboot : Restarts the device while preserving current settings.

Factory Reset : Deletes all settings and returns the device to its initial setup state.

Discard : Exits without saving changes





All tabs within the Configuration section are identical to those in the web interface and are explained in detail in the Web Interface section.



Submit : Saves and applies the changes

Settings : In the Settings menu, you can:

- Select language
- Set electricity cost and currency
- RFID Card management : Assign names to 'Member' RFID cards registered to the device
- List the members registered in the RFID card database
- Configure time zone settings

Charging Schedule Screen : This screen is used to automatically schedule vehicle charging at specific days and times. Under the "Charging Schedule" heading, you

Settings

Electricity Cost
Set the cost per kWh and select your currency

Select Currency
Turkish Lira (₺)

Cost per kWh
20.84 ₺

RFID Card Management
Manage your RFID card names

296a419795 Card Name mehmet

29d475971f Card Name salih

Refresh RFID List

Language
Select your preferred language

Language
English

Time Zone
Set your local time zone

Time Zone
UTC+03:00

can find charging program settings. Days of the week can be selected (Monday and Tuesday appear selected). In the "Power Mode" field, charging power can be adjusted to 3 different levels (7 kW, 11 kW, 22 kW). "Start Time" and "End Time" fields allow you to set the charging start and end times. At the bottom of the screen, there is a "SAVE" button to save the program.

Usage History Screen : This screen chronologically lists the usage history of the charging device. Each charging session is numbered and its details are displayed. For each session, the name of the RFID card that initiated the session is shown in the upper left. Below that, the mobile ID used to start the charge is displayed. If the person who started and stopped the charging is different, the name of the RFID card that stopped it is also shown.

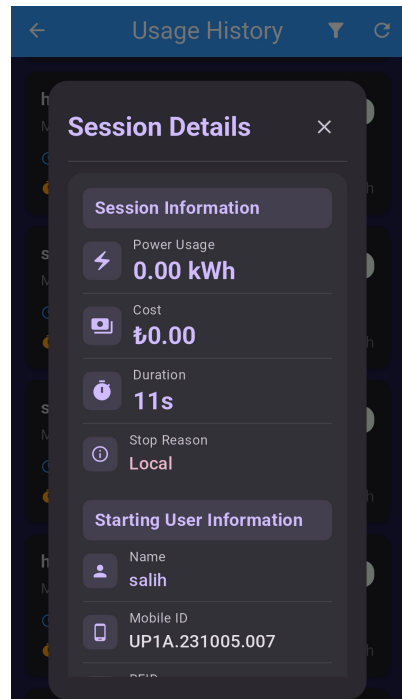
Session	RFID Card	Mobile ID	Start Time	Duration	Energy Consumed	Status
1	salih123	UKQ1.230917.001	18/03/2025 14:46:13	3m 33s	0.00 kWh	EVDIsconnected
2	Master	Mobile	18/03/2025 14:45:08	8s	0.00 kWh	Local
3	salih123	UKQ1.230917.001	18/03/2025 14:44:21	11s	0.00 kWh	Local

If the same person started and stopped it, the date/time information, charging duration, and energy consumption (kWh) are displayed. The filter icon in the upper right offers the option to filter historical records. On the right side of the sessions, stop reason labels (Authentication Error, Other, Local) are displayed.

Session Details Screen : This screen shows detailed information about a charging session. Under the "Session Details" heading, the following information is provided :

- Power Usage
- Cost
- Duration
- Initiating user information
- Terminating user information
- Start Time
- End Time
- Stop Reason

This screen provides a comprehensive view of all details for the selected charging session, enabling detailed charging information for the user.



MAINTENANCE AND CLEANING TIPS

Regular maintenance and cleaning are essential to ensure the long-lasting and safe operation of the device. The following recommendations help improve the device's performance and prevent potential malfunctions.

REGULAR MAINTENANCE

Inspection of Connection Points : The device's electrical connection points and charging cables should be checked regularly. If signs of oxidation or looseness are detected, contact authorized service providers for assistance.

Connector Cleaning : Dust or dirt accumulation on the charging connectors can reduce the device's charging efficiency. A microfiber cloth can be used to clean the connectors. When using a damp cloth, make sure the connectors do not get wet.

Software Updates : The Inocharge vehicle charging device receives periodic software updates via the Inocharge mobile app. Ensure that the device is operating with the latest software version. Updates can improve performance and add new features.

CLEANING RECOMMENDATIONS

Exterior Cleaning : The exterior surface of the device should be wiped regularly with a dry cloth. If there are stains on the device, a slightly damp cloth may be used. Ensure that the cloth is not too wet. Do not perform cleaning while the device is charging.

Avoid Abrasive Cleaners : Do not use abrasive chemicals, acid-based cleaners, or alcohol-containing substances on the device's surface.

Such materials may damage the surface and internal components of the device.

STORING THE DEVICE

Storage Temperature : The recommended storage temperature is between -40°C and $+70^{\circ}\text{C}$.

Physical Protection : The device should be protected against physical impacts and should not be stored in humid environments. Additionally, the connection cables should be properly coiled, and the cable ends must not be bent.

Long-Term Storage : If the device will not be used for an extended period, it should be stored in its box and packaging, protected from heat and humidity.

FREQUENTLY ASKED QUESTIONS

Inocharge EV charger offers a reliable and seamless experience. However, users may occasionally face certain usage challenges. This section outlines common issues and how to resolve them.

The Charger Is Not Working : If the status LED on the device is not illuminated and the charger appears inactive, a connection issue with the power cables may be the cause. Under normal conditions, the power LEDs should light up when the vehicle is first connected to the charger. If they do not :

First, ensure the device is properly connected to the electrical grid.

Make sure the power cables are neatly arranged and the cable ends are not bent.

The device operates internally using Phase 3 (L3). Check the Phase 3 and Neutral connections.

Ensure that there is 230V AC between L3 and Neutral.

If the issue persists, there may be a fault in the device's internal components or wiring. In such cases, do not attempt to open the device—seek assistance from authorized personnel.

Charging Does Not Start : If your vehicle is properly connected but charging doesn't begin, check the following steps :

1. Did the charge status LED on the device turn blue when the connection was made?

If it turned blue, the connection between the vehicle and charger is successful. If not, the connection failed—reconnect the charger and ensure the connector is properly inserted.

2. Did charging not begin even after scanning your RFID card?

Scan your card on the designated RFID area of the device. The RFID LED should blink when scanned.

> If it doesn't blink, the scan failed.

> Check if the card belongs to this device.

> If it's a newly added card, verify that it matches the required frequency range (compatible cards operate at 13.56 MHz).

3. Card scan successful but still no charging?

Check whether the card is registered in the Inocharge charging system. If it is not, register the card or use a previously registered one. If charging still does not start, verify that the voltage and frequency supplied to the device are stable and within acceptable ranges.

Charging Is Slower Than Usual : If your charging session is taking longer than normal, the cause may be related to the power grid, the charging unit, or the vehicle. To identify the reason, follow these steps in order:

> Check the power supply feeding the device. If the input voltage is below the nominal level, it can affect charging speed.

> Check your vehicle settings to ensure no charging limit is set.

> Confirm the charger is operating at the correct power level (7 kW, 11 kW, or 22 kW).

- > Environmental factors, such as cold weather, may reduce charging speed due to battery conditions.
- > Ensure the charging cables and connectors are intact and clean—damaged or dirty components reduce efficiency.
- > If the charging unit's software is outdated, consider updating it via the Inocharge mobile app to benefit from performance improvements.

The Charger Is Overheating : Do not cover the charging unit or block airflow around it.

- > The device may heat up, especially in hot weather conditions.
- > If overheating persists, turn off the charger and wait for it to cool down. Then, try charging again. If the problem continues, seek technical support.

Overheating in Charging Cables : The charging power of the device affects how warm the cable gets — for example, cable temperature will differ between 7 kW and 22 kW charging. If you observe more heat than expected :

- > Check if the cables are damaged. Bent or worn cables can lead to overheating.
- > Start charging at a lower power level and monitor the condition of the cables while the vehicle is charging.
- > If the cables do not cool down, stop using the device immediately, disconnect power from the circuit breaker, and seek assistance from a qualified electrician. Damaged cables can pose a safety hazard.

Abnormal Colors On Charging Status LED (Ring LED) : Under normal conditions, the status LEDs indicate the following :

> **LED is off** : No connection between the device and the vehicle.

> **Blue LED** : Device is connected to the vehicle.

> **Green LED** : Vehicle is charging.

> **Red LED** : Alarm condition (such as leakage current or emergency stop button activation).

If you observe a color other than those listed above, disconnect the device from power and reconnect it. If the issue persists, contact technical support.

Device Cannot Connect to the Internet : If Wi-Fi or Ethernet cannot connect and the device does not pair with the Inocharge mobile app :

> Ensure that your internet connection is working properly. Try restarting your modem or router to resolve connectivity issues.

> Verify that the Wi-Fi password is correctly entered or that the Ethernet cable is securely connected.

> Use the latest version of the Inocharge mobile app to try reconnecting.

> If the device still cannot connect to the internet, you may try performing a factory reset. This will reset the device's network settings and may allow it to reconnect.

If The Vehicle Is Not Fully Charged : If the charging process completes but the battery does not appear fully charged, check whether your vehicle has any limitation on battery capacity.

> Ensure that the charging cable is properly connected to the vehicle.

> Ensure that the charging power settings of the Inocharge vehicle charger are set correctly.

> There may be an issue with the vehicle battery or software. Review the vehicle manufacturer's recommendations and seek support from an authorized service center.

Issue With Device Update : If, after the update, you notice that the device has not switched to the new software version, please follow the steps below:

> Ensure that your device is connected to the internet. If you are using a Wi-Fi connection, make sure the signal strength is sufficient and the connection is stable.

> Ensure that all update steps have been completed. Once the device has finished the update process, perform an automatic or manual restart. Upon restart, under normal circumstances the device will transition to the new software version.

> If, after completing all update and reboot steps, your device still appears on the old version, please wait five minutes and then try the update again. The update process may take a short while to fully complete on the system side.



If the device is restarted, a power outage occurs, or an error happens within 1 minute after the update is completed, the device will revert to the previous firmware version. In this case, the update must be repeated.



WARRANTY CERTIFICATE

SELLER INFORMATION:

Company Name:

Address:

Phone:

Fax:

E-mail:

Invoice Date and Number:

Delivery Date and Location:

Authorized Signature:

Company Stamp:

PRODUCT INFORMATION:

Type:

Brand:

Model:

Label and Serial Number:

Warranty Period: 2 YEARS

Maximum Repair Time: 20 BUSINESS DAYS

BUYER INFORMATION:

Name-Surname:

Phone:

Address:

APPROVAL

MANUFACTURER

İNOTEL ELEKTRİK İNŞAAT SANAYİ VE TİCARET LİMİTED ŞİRKETİ

Ostim OSB Mah. Turan Çiğdem Cad. No: 7/1 06374

Yenimahalle / Ankara

Tel : 0(312)750 09 18

E-Posta: info@inotelek.com



WARRANTY TERMS

1) The warranty period starts from the delivery date of the product and is valid for 2 years. (This period cannot be less than 2 years.) The warranty certificate may be issued on paper or via a permanent data storage medium. If the consumer requests it in printed form, it must be provided as such.

2) The entire product, including all its components, is covered under warranty.

3) If the product is found to be defective, the consumer may exercise one of the rights provided in Article 11 of the Consumer Protection Law No. 6502:

- a) Withdrawal from the contract,
- b) Request a discount from the purchase price,
- c) Request free repair,
- d) Request replacement with a non-defective equivalent.

4) If the consumer chooses the right to free repair, the seller is obliged to repair the product or have it repaired free of charge, including labor, replacement parts, or any other costs. The consumer may also exercise this right against the manufacturer or importer. The seller, manufacturer, and importer are jointly responsible for fulfilling this obligation.

5) If the consumer chooses free repair and the product:

- Fails again during the warranty period,
- Exceeds the maximum repair period,

- Is deemed unrepairable by the authorized service, seller, manufacturer, or importer, then the consumer may request a refund, a proportional price reduction, or replacement with a defect-free equivalent. The seller cannot refuse this request. If the request is not fulfilled, the seller, manufacturer, and importer are jointly responsible.

6) The repair period shall not exceed 20 business days. For passenger cars, pickup trucks, motorcycles, ATVs, electric bikes, motor scooters, jet skis, yachts, snowmobiles, and caravans, this period shall not exceed 45 business days. The repair period starts from the date the defect is reported to the authorized service or seller during the warranty period, or from the delivery date to the authorized service outside the warranty period. If the product is not repaired within 10 business days, the manufacturer or importer must provide a replacement product with similar features for the consumer's use until the repair is complete. If the product fails during the warranty period, the time spent in repair is added to the warranty period.

7) Failures resulting from use contrary to the instructions in the user manual are not covered by the warranty.

8) In case of disputes related to the enforcement of warranty rights, the consumer may apply to the Consumer Arbitration Committee or Consumer Court located in their place of residence or where the transaction took place.

9) If this warranty certificate is not provided by the seller, the consumer may apply to the Ministry of Trade, Directorate General of Consumer Protection and Market Surveillance.

0 312 750 09 18

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