ETKEL

ELECTRIC VEHICLE CHARGING STATION

ETREL INCH LITE

USER MANUAL

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FOREWORD

Etrel INCH Lite charging station has been designed and tested in accordance with current and past versions of international standards. The charging station is compliant with IEC 61851 (Part 1, Part 21-2, Part 22) international standards which defines conductive AC electric vehicle charging and supports Mode 3 charging for safe recharging of standard electric vehicles.



Figure 1: Etrel INCH Lite charging station (with socket, with cable)

The manual contains the latest information at the time of purchase. Any unauthorized modification or tampering with the product may void the product warranty. Etrel d.o.o. reserves the right to make changes to the product without further notice. Customer support department will assist with any further inquiries about the product.

Notes to the installer:

- Carefully read the installation instructions before installing the station. Follow all the instructions and recommendations.
- After the installation is completed, make sure to leave these instructions with the customer.

Notes to the customer:

- Use the charging station only in accordance with instructions for use. Carefully read these instructions and make sure to keep them for further reference. Ensure that the charging station is installed by a licensed electrician.
- Preparation of charging station installation site and installation are described in separate documents. In this document it is predisposed that charging station is installed properly and already working.

GENERAL INFORMATION

INTENDED USE

Etrel INCH Lite charging station is intended only for charging of electric vehicles and should not be used to charge other appliances or for any other purpose.

- No flammable materials or liquids should be used or stored in the direct vicinity of the charging station.
- The manufacturer accepts no responsibility for damage or injuries resulting from incorrect installation or inappropriate use of the product.
- Preparation of charging station installation site and installation are described in separate documents. In this document it is predisposed that charging station is installed properly and working.
- Different types of charging connectors and converters are available as a part of optional equipment to allow safe charging of any standard electric vehicle.

SAFETY INFORMATION

OPERATION



The device must be used in accordance with the instructions contained in this manual.

- Do not operate charging station if there is visible damage to the unit or charging cable. Call manufacturer's or reseller's support department for advice how to proceed.
- Do not put fingers into the charging connector.
- Do not operate the charging station with wet hands.
- The charging station manufacturer cannot be made liable for damage or injury caused by improper handling, installation, or use of the product.
- Any usage of the product not covered in this document is not allowed and could cause injury or even death.
- When the charging station without integral RCD device is installed, the proper RCD device should be installed in the main electrical cabinet.
- When the charging station without integral overcurrent device is installed, the proper overcurrent device should be installed in the main electrical cabinet.

IRREGULARITY OR INTERFERENCE AT OPERATION

In the event of irregularities or interference in the operation of the device, immediately stop using the charging station and inform the charging station operator of the situation by phone number located on the housing or other place.

MAINTENANCE

- Charging station can be maintained and repaired by qualified personnel only.
- Charging station's power supply should always be switched off during the maintenance and repair.
- Avoid hazardous risks. Only the manufacturer, an authorized service technician, or technically qualified personnel may replace damaged charging station or its components.

FIRE SAFETY MEASURES

At the location of car charging, the fire hazards and thus the threats are increased during the process of charging. The overall design of our products is made on the basis assumption that the fault could occur on any element of the system. Either in the electrical wiring of power supply, in wiring or inside of the charging station, or in the car.

The enclosure and the assembly design of the charging station are made in such a way that the contact of the user to hazardous parts is not possible. In the event of fire, metal enclosure would constrain a fire and would not allow the propagation outside of the enclosure. Regarding the fire safety in all possible cases of installation, that are out of control of our company, several recommendations are listed:

- The charger must be installed outside the hazardous area.
- The installation of the charging station can be performed only by professional electrician and must comply with the installation manual and local installation rules.
- Ensure that there is enough space to manoeuvre vehicles into their designated charging areas and that in event of fire the escape and rescue routes are not obstructed.
- No flammable or combustible material should be stored within the charging area.
- Provision of suitable portable fire extinguisher at the location of the charging station is proposed.

FIREFIGHTING MEASURES

CHARGING STATION FIRE

In the event of a charging fire, the usual rules in the event of an electrical cabinet fire apply. In case of fire please follow these steps:

- In the event of a fire, immediately stop using the charging station and call the appropriate services (fire brigade).
- If possible, disconnect the station from the power supply by pressing the fire protection switch (if present) or another switch responsible for cutting off the power supply to the station.
- Retreat from fire area.
- Extinguishing should be carried out with extinguishers intended for extinguishing electrical devices up to 1000 V.

Do not extinguish live electrical installations and devices with water!

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The following is general information obtained from various sources. For detailed instructions on extinguishing fires of electric vehicles or their batteries, fire brigade have appropriate procedures already established.

VEHICLE FIRE

Vehicles, made of light metal, such as magnesium or aluminium, develop high temperatures above 1000 °C when burning. When extinguished with water such a high temperature evaporates it and can cause burning particles of distinctly white colour and high temperatures to fly around the vehicle. Extinguishing such vehicles requires great care in forming the water jet and in the amount of water.

If a burning vehicle is connected to a charging station, it is necessary to ensure that the charging station is in a voltage-free state by disconnecting the line from which it is supplied.

If firefighters are at the scene of a fire in less than half an hour, the battery usually does not ignite yet and the vehicle can be extinguished easier and all extinguishing agents can be used. The general recommendations are mainly to use water and foam.

BATTERY FIRE

In general, battery manufacturers, regardless of the type of battery, recommend water for successful extinguishing, although reactions may occur.

If the batteries catch fire, they will burn until they burn out completely. Another option is to immerse the batteries in water for at least half an hour. If the battery is not extinguished successfully, the fire will recur.

ENVIRONMENTAL SAFETY MEASURES

When implementing protection measures, environmental protection must also be observed. For this reason, special care has been put into selection of the components and their compliance with the Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS). This directive restricts use of hazardous materials in the manufacture of various types of electronic and electrical equipment.

The substances banned under RoHS are heavy metals, lead (Pb), mercury (Hg), cadmium (Cd), hexavalent chromium (CrVI), polybrominated biphenyls (PBB), polybrominated diphenyl ethers (PBDE), and four different phthalates (DEHP, BBP, DBP, DIBP).

The restricted materials are hazardous to the environment and pollute landfills and are dangerous in terms of occupational exposure during manufacturing and recycling.

Another example of use of environmentally friendly materials in our products is compliance to REACH, which is a regulation of the European Union, adopted to improve the protection of human health and the environment from the risks that can be posed by chemicals. REACH regulation also promotes alternative methods for the hazard assessment of substances to reduce the number of tests on animals. Packaging of our products is environmentally friendly and materials degradable.

CORRECT DISPOSAL OF THIS PRODUCT

INFORMATION ABOUT WEEE DIRECTIVE



Of major importance is the compliancy with the Waste Electrical and Electronic Equipment Directive (WEEE) as well. The scope of this Directive is the reuse, recycling, and disposal of electrical equipment during complete lifecycle and after their end of life.

The product and its electronic accessories should not be disposed of with other household waste at the end of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take these items for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product and its electronic accessories should not be mixed with other commercial wastes for disposal.

COMPLIANCY

SIMPLIFIED EU DECLARATION OF CONFORMITY

Hereby, Etrel d.o.o. declares that the radio equipment type INCH Lite is in compliance with Radio Equipment Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address:

https://etrel.com/charging-solutions/inch-lite/

Select "Access documentation" and then "Certificates".

TESTED COMPLIANCY WITH STANDARDS

Etrel INCH Lite charging station was tested at accredited third-party laboratory SIQ - Slovenian Institute of Quality and Metrology. Performed tests cover all the requirements of LVD and EMC directives of the European Union, according to the specifications of the following standards (in addition, RED directive is applicable if radio equipment is installed in the station):

- IEC 61851-1:2017 (EN IEC 61851-1:2019)
- IEC 61851-21-2:2018
- ETSI EN 301 489-1 V2.2.3
- ETSI EN 301 489-17 V2.2.1
- ETSI EN 301 489-52 V1.1.0
- ETSI EN 301 489-3 V2.1.1
- EN 60529:1991 + A1:2000 + A2:2013
- EN 62262:2002

SAFETY RISK ANALYSIS

DANGER OR RISK	RELEVANT	PROTECTIVE MEASURES	IN ACCORDANCE WITH
Preliminary observations	YES	Application of Annex A of CENELEC Guide 32, Safety aspects relating to low voltage equipment.	CENELEC Guide 32
Safety integration	YES	Application of Annex A of CENELEC Guide 32, Safety aspects relating to low voltage equipment, in particular the "3-	CENELEC Guide 32
		step-method": 1) Inherent design measures, 2) Techical safety measures, 3) Information for use.	
General	YES	Charging station complies to all requirements of the standards of the EN 61851 family, to all parts relevant to AC	EN 61851-1:2001, EN 61851-1:2011,
		conductive charging and is compliant to all versions, current and old. This family of standards covers requirements	EN 61851-1:2019, EN 61851-21:2002, EN
		for charging stations from all aspects, however some details are covered in other standards, as listed in this table.	61851-22:2002
Protection against electrical haz	ards		•
Leakage current	YES	To prevent leakage currents, the suitable RCD protection device is used either in charging station, or in an	Directive LVD 2006/95/ED (through
		installation. Each socket must be protected by individual RCD. The power supply was selected to have a negligible	April 19, 2016) and Directive 2015/30/EU
		leakage current.	(from April 20, 2016),
Energy supply	YES	Overload and short-circuit protection is ensured with use of suitable MCB. Additional surge protective device could	EN 60947-1:2007, EN 60947-2:2006,
		be required by national legislation. Protective devices can be installed either in charger, or in an installation	EN 60947-3:2009, EN 60947-4-1:2010, EN
		upstream. Coordination and selectivity of protection devices with upstream devices should be ensured, so that	61008-1:2004, EN 61008-1:2012,
		only the protection device, the closest to the fault, operates.	EN 61009-1:2004, EN 61009-1:2012,
Stored charges	YES	The components are dimensioned in such a way that they cannot cause a charge that would be hazardous to	EN 60309-1:1999, EN 60309-2:1999,
		human health. In case of vehicle malfunction, the possible hazard of stored charge is mitigated by the use of RCD.	EN 60947-1:2007, EN 60947-2:2006,
Arcs	YES	The use of suitable switching and protective devices ensures that possible arcs are extinguished quickly and	EN 60947-2:2017, EN 60947-3:2009,
		without causing damage.	EN 60947-4-1:2010, EN 62196-1:2012, EN
Electric shock	YES	Basic protection is provided with selection of appropriate insulation of all components and in addition live parts	62196-1:2014, EN 62196-2:2012,
		are not accessible during charging. Fault protection is achieved with earthing of all exposed conductive parts and	EN 62196-3:2014, EN 50065-1:2011,
		with automatic disconnection of the supply in case of a fault. Additional protection is also provided, with use of	EN 50065-4-2:2001, EN 60950-1:2006, EN
		high sensitivity RCD's.	50065-4-7:2005, IEC TS 61439-7:2018, IEC Guide 116:2018, ISO/IEC Guide
Burns	YES	Electrical burns and other injuries are prevented with use of appropriate protective devices, properly designed	51:2014
		insulation and prevention of arcs.	51.2014
Protection against mechanical h	azards	1	1
Instability	YES	The use of quality housing with use of additional structural supports ensures high resistance on mechanical stress.	EN 62262:2002, EN 60529:1991
		The proper installation of mounting anchor ensures that the charger is rigidly supported and can not turn over.	
		Our charging stations are tested to determine the IK code (degree of protection provided by enclosure) in	
		combination with tests to determine IP code (ingress protection).	
Break-down during operation	YES	Charger construction ensures that break-down during operation is not possible in normal conditions. This would	
		be possible only with high enough external force, e.g. vehicle collision. For this reason the recommendation for	
		public charging stations is to use protective bollards.	
Ingress	YES	The use of quality housing with use of sealing foam and filters ensures high resistance to ingress of particles. Our	
		charging stations are tested to determine the IP code (ingress protection) in combination with tests to determine IK	
		code (degree of protection provided by enclosure).	
Falling or ejected objects	NO	/	/
Sharp edges or corners and	YES	There is a possibility that sharp edges occur during the production process during the cutting and assembly of the	Directive LVD 2006/95/ED (through
inadequate surfaces		housing. For this reason, possible sharp edges that could harm a person, were identified and are grinded away	April 19, 2016) and Directive 2015/30/EU
		after the assembly. The wires are also protected so that they do not come into contact with the remaining sharp	(from April 20, 2016)
		edges. Proper processing, finishing and coloring procedures of the surfaces ensure high quality product.	
Moving parts, especially where	YES	The only moving part representing the hazard is the opening and closing of the doors. The doors should be closed	IEC 60335
there may be variations in the		only if there is nothing blocking them (either mechanical object, or human hand). This risk is also mitigated with the	
rotational speed of parts		explanation in the user and installation manual.	
Vibration	YES	The major concern with vibrations is the loosening of electrical connections. For this reason, special care is made	IEC 60335
		during the production process to use the optimum torque and tightening sequence for fasteners with use of tools	
		with settable screwing torque.	
Improper fitting of parts	YES	The tolerances of parts are high enough to not represent a problem during the manufacturing process. In addition,	IEC 60335
Improper fitting of parts	YES	The tolerances of parts are high enough to not represent a problem during the manufacturing process. In addition, the manufacturing instructions are covering all possible improper fittings of connectors and other components. All	IEC 60335

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Functional safety and reliability		
		I
Equipment design YES Charging station design was made in accordance with all major international standards that are considered in Directive 2006/95/EC,		red in Directive 2006/95/EC, EN 61508-1:2010
scope of e-mobility and is designed and constructed to be safe and reliable to prevent hazards arising and		
withstand normal use in foreseeable environmental conditions, misuse and errors in logic. Type related hazards YES Protection against unexpected start and stop was executed with emphasis on hazards resulting from failure to stop. EN 61851		lura ta stan EN 61951
	·	•
		y the EN 61851
monitoring, protection and disconnection means ensure safe operation.	0,1	
Safety-related security		
Protection against casual or YES The control system provides the capability for human user identification and authentication. EN 61851	· · ·	EN 61851
coincidental violation		
Protection against intentional YES The control system provides the capability for unique human user identification and authentication. EN 61851	n against intentional YES The control system provid	EN 61851
violation using simple means	using simple means	
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* Although standards listed in the table are referenced only as CENELEC versions (EN - European Standard, or HD - Harmonization Document), compliancy applies to their international counterpart versions as well (IEC prefix). However, the designation of the year of the standard can be different for IEC versions.

All our charging stations are tested and proved compliant with EN 61851 Part 1, Part 21-2, and requirements of harmonized standards to fulfil RED, LVD and EMC directive. These tests and judgement of compliancy was performed by external accredited organization, SIQ - Slovenian Institute of Quality and Metrology, Mašera - Spasićeva ulica 10, 1000 Ljubljana, Slovenia, www.siq.si.

DESIGN CONSIDERATIONS

Special care has been put into selection of components and materials and their compliance to requirements set in standards, technical directives, and rules of good practice.

The internal wiring was carefully designed, and the propriety of whole assembly thoroughly evaluated. Basic design considerations include voltage, insulating materials, time under voltage stress and degree of pollution at the location.

Creepage distances, clearance between circuits and spacing to metal enclosures are important requirements for insulation coordination. Thus, calculation and measurement of clearance and creepage distances, in accordance with requirements, are one of the significant parts in design of our products. They are dimensioned to withstand the required impulse withstand voltage and to withstand the long-term continuous operation.

A charging station operates with an RCD device, which is designed to protect against the risks of electrocution and in addition offers protection against fire caused by earth faults. It is a sensitive safety device that switches off electricity automatically if there is a fault.

The ingress protection class of IP56 proves, that the enclosure of the charging station is protecting the internals against ingress of solid objects, permits only limited ingress of dust and is protected against water splashes from all directions. Impact protection, of at least IK10 states, that the charging station can withstand impacts, equivalent to 5 kg dropped from height of 40 cm. As required, tests for the IK class were performed before testing of IP class.

LICENSES

At the same location as the complete EU Declaration of Conformity, in the folder "Licenses", manifest file with information about versions and licenses of integrated software can be found.

https://etrel.com/charging-solutions/inch-lite/

Select "Access documentation" and then "Licenses".

PRODUCT DESCRIPTION

3

BASIC FUNCTIONALITIES

Etrel INCH Lite is a smart charging station that can predict EV charging habits and help charge the car by the time it is needed, at the lowest possible cost.

To connect Etrel INCH Lite charging station, it either comes with the socket or cable. Depending on the type of charging station.



Figure 2: Etrel INCH Lite with socket

Figure 3: Etrel INCH Lite with cable

BASE SPECIFICATIONS

- i
- Input: 2x230/400V~; 3W+N+PE; 50/60 Hz; 32Amax
- Output: 2x230/400V~; 3W+N+PE; 50/60 Hz; 32A_{max}
- Maximum charging power: 7.4 kW (1P), 22 kW (3P)
- **Device power consumption:** from 1 W up to 3 W.

DIMENSIONS

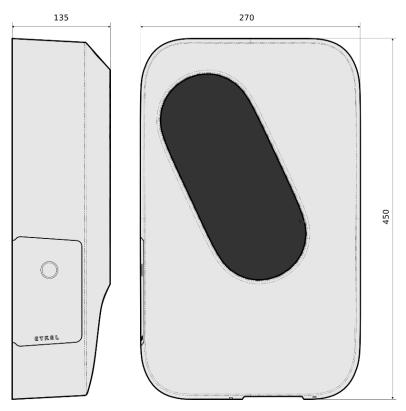
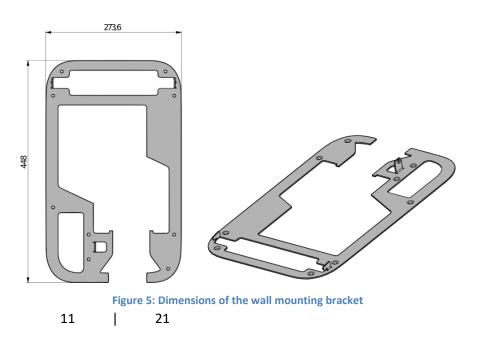


Figure 4: Dimensions of the charging station



Etrel INCH Lite | User Manual

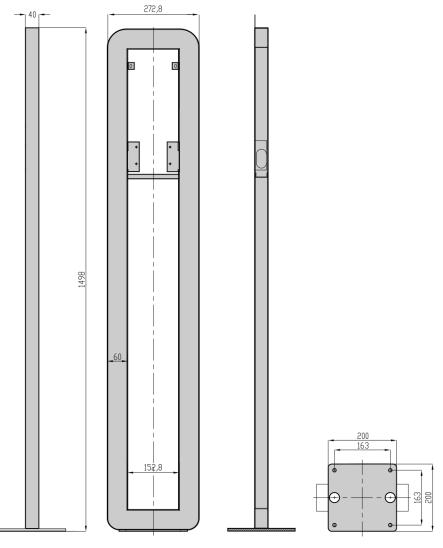


Figure 6: INCH mounting pole

CONTENT, OPTIONAL AND EXTRA EQUIPMENT

- Charging station (with Type 2 cable or Type 2 socket),
- Wall mounting bracket,
- 9 × wall plugs for securing the mounting bracket using screws to the wall,
- 9 × screws to mount the bracket to the wall,
 o Screws dimensions: 4.5 x 40 and 4.5 x 60 [mm],
- Cable gland rubber seal for smaller cable dimensions
- *9 × wall spacers
- *2 × keys to open charging station service doors,
- *Hex key to open charging station maintenance doors,
 o Hex key dimensions: 2.5
- *Magnetic cable holder (different version for longer cables > 3 m).
- *INCH mounting pole,

*Optional depending on the purchased model.

IDENTIFY PRODUCT VARIANT

Etrel INCH Lite has multiple variants that differ based on connector type and connectivity option. To identify charging station, check the stickers.

Model number is located on all stickers. Identification of charging station is sometimes needed by the support, so they can identify potential issue.

User will get all the needed information on the sticker located on the inside of maintenance doors.

Charging station or its packaging has 3 stickers, presented on the following figure. Sticker with basic information is located on the delivery package **a**), one at the back of service doors has all the technical information **b**) and last one is located inside the side maintenance doors, containing other information **c**).

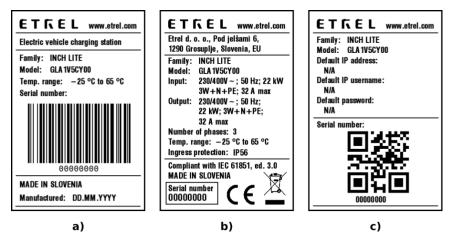
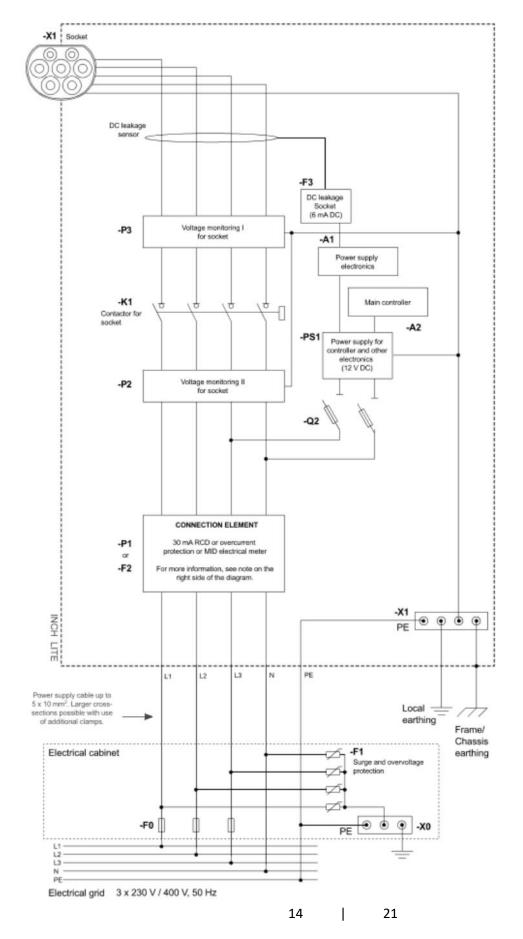


Figure 7: Three different stickers, sticker on the delivery package, on the maintenance doors and inside the maintenance space, behind maintenance doors

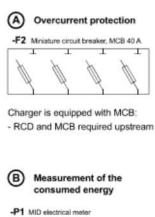
CIRCUIT DIAGRAM



NOTE:

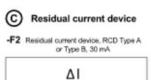
CONNECTION ELEMENT

Connection element is used to connect supply cables to the charging station. It can be either of the three components specified below (A, B or C), depending on the version of the product.





Charger is equipped with MID meter: - RCD and MCB required upstream



Charger is equipped with RCD: - MCB required upstream

30 mA RCD

Actual wiring of a product can be different across different versions of the product.

OPERATION AND CHARGING PROCEDURE

FIRST POWER UP



Before starting the charging station, it is absolutely necessary to read this manual and the technical specification of the device.

- Connect charging station to the power supply in the electrical cabinet. Installation feeder should be turned on.
- When the charging station has either overcurrent or RCD protection installed, check whether the protection element is in ON position.
- Charging station is powered up automatically when it is connected to the electricity.
- When the charging station is power up for the first time it can take several minutes for station to get ready to start using it to charge EV.

STATUS OF LED

LED colour	State	LED action	Sub-state
Green	- Booting	Steady green	Booting
	- OK	Steady green	Connector
	- Available		available
		Blink green	Preparing for
		slow	charging
		Blink green fast	Waiting for
			vehicle
Blue	- Charging	Blink blue	Charging
		Steady blue	Charging ended
		Steady blue	Charging
			paused (by EV
			or by EVSE)
Red	- Fault	Blink red	Fault
	- Unavailable	Steady red	Connector
			unavailable

SETTING OF MAXIMAL CHARGING CURRENT

Max power is set by the installer based on the grid capabilities where charging station is installed. If there is need to change it, please follow below instructions before starting the first charging session:

- Open the maintenance doors and locate the key inside the maintenance space.
- Information of the current value is obtained with short press on the key. Number of short beeps represents information of set maximal charging current (number of beeps x 2 A).
- The default value of current limitation is 16 A and it can be set in range of 0 A to 32 A.
- Settings can be accessed with key press for more than 5 s. After that, a long beep is a notification that the settings can be changed.
- Each short press on the key increments the maximal charging current by 2 A, from minimal value of 0 A. E.g., to set 24 A, the key should be pressed 12 times. Most vehicles require at least 6 A to charge and a lower value setting is not advised.
- To save the settings, press the key for more than 5 s. Long beep is a confirmation that settings were saved, two short beeps are a warning that settings were not saved.

FIRST CHARGING SESSION

CHARGING PROCEDURE

- Insert the cable and start the charging session.
- EV will be charged with the max available charging power as fast as possible.

STOP THE CHARGING SESSION

• Stop the charging in the electric vehicle and withdraw the charging cable.

REGULAR MAINTENANCE

ACCESS TO THE MAINTENANCE AREA

Etrel INCH Lite charging station provides quick access to the side maintenance area to execute basic maintenance and troubleshooting.

Side maintenance area is protected by the side maintenance doors with hex screw (2.5 mm). To access the area, a hex screwdriver is needed.



Figure 8: Doors with hex screw

There is a sticker on the inside of maintenance doors, with technical information including basic charging station information, model type and serial number. When support is contacted it is important that the charging station model type is known so the support can quickly help solve the issue.

GENERAL INSPECTION OF THE STATION

It is recommended to perform a visual check and test of the protection elements at least once per year if local regulations do not state otherwise. It is possible that the requirement is to check more often, e.g., every three months, or every month. The check should also be documented.

Recommended procedure:

- Examine every socket for potential damage. Access to the sockets must always be enabled and any foreign objects that might be lodged in must be removed as soon as possible.
- Examine the casing of the charging station for potential damage.
- Check the protection elements, as described in the following chapter.
 - 17 | 21

If during the check any problems or malfunctions are detected, call licensed electrician or maintenance service team.

CHECK THE PROTECTION ELEMENTS

Protection elements can be part of charging station or they can be installed in the upstream installation. They should be regularly checked no matter the location.

OVERCURRENT PROTECTION

Check the overcurrent protection once a year for any visible damages on the surface. If the overcurrent protection is tripped and the switches cannot return to the active position something is wrong with the protection and needs to be changed by maintenance crew.

SURGE AND OVERVOLTAGE PROTECTION

Check the surge and overvoltage protection (if installed) once a year for any visible damages on the surface. If the surge and overvoltage protection is tripped it needs to be changed by the maintenance crew.

RCD

The regulations require that residual current protective device (RCD) is tested regularly, and an audit log should also be kept. The test button on the RCD unit allows user to verify the correct operation of the device by passing a small current through the RCD unit. This simulates a fault by creating an imbalance in the sense coil. If the RCD does not trip when this button is pressed, then the device must be replaced by licensed electrician. The device must be changed also when the RCD was tripped but the switch cannot be moved back into active position.



Figure 9: RCD test button

TROUBLESHOOTING

In the table below, all possible events that can occur at the power up of the station are listed with the procedure what to do in case something is wrong.

STATUS LIGHT	NORMAL OPERATION	PROBLEM	SOLUTION
Fast blinking green light	Charging station's backup batteries are charging. At the first power, up it can take up to 10 min. If backup battery is full green light will blink slowly.	If the light is blinking fast more than 10 min there might be a problem with the backup battery.	Inform the support about the status of the charging station.
Slowly blinking green light	Heating system is trying to heat the electronics before it is turned ON.	If the green light is blinking slowly for more than 10 minutes, there might be a problem with the hardware.	Support should be called.
Steady glowing green light	Charging station is ready to be used.	/	/
No lights	/	If charging station is not responding after it is powered up, something might be wrong with power connection.	Check the protection elements if either RCD or overcurrent protection has been tripped. Activate the protection. If nothing helps call the support or installer.

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Green light is blinkingCharging station is ready to be used.Charging station is unresponsive.Try resetti charging station is unresponsive.Green light is used.Charging station is unresponsive.Try resetti charging station is unresponsive.	tation. olem
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Errors dangerous to device users:

Dangerous voltage present on enclosure or device under fire. In this case the device should be turned off immediately. Switch off device power supply of device in the distribution board from where device is supplied and not on device itself. Do not touch device.

If vehicle is connected at that moment, disconnect plug from the vehicle and not from the charging station, but only after the power supply was switched off. In the case of fire use fire extinguisher appropriate for electrical fire.

Faults occurred because of external conditions:

Undervoltage, overvoltage, short and long power supply outages, or wrong vehicle behaviour. In these cases, no action is needed to reestablish normal operating conditions.

Once fault is gone, normal operation conditions will be established automatically. If temporary fault was caused by vehicle, user will have to reinitiate charging session.

Device hardware failure preventing normal operation:

Example: Broken socket, broken LCD, electronics failure. If after restart device does not start normally, contact supplier support.

CONTACT INFORMATION

TECHNICAL SUPPORT DEPARTMENT

e-mail: support@etrel.com phone: +386 1 601 0127

CUSTOMER SUPPORT DEPARTMENT

e-mail: sales@etrel.com phone: +386 1 601 0175

AUTHORISED SERVICE CENTRES

e-mail: support@etrel.com phone: +386 1 601 0075

Etrel d.o.o. Pod jelšami 6 1290 Grosuplje Slovenia EU

www.etrel.si