# EVLY / Installation / User manual



Rev 5.0

# EU Declaration of Conformity

**We, the responsible manufacturer:**

| | | | |
|---|---|---|---|
| Company name: | | EVLY AS | |
| Postal/visiting address: | | Østre Strandvei 52, 3483 Tofte, Norway | |
| Telephone: | +47 90780432 | E-mail: | post@evly.no |

**declare that this Declaration is issued under our sole responsibility and belongs to the following product(s):**

| | |
|---|---|
| Product: | EVSE |
| Type model: | All Charge |
| Description: | EVLY All Charge is mode 3 charging station. |

**The product(s) described above are in conformity with the relevant European Union harmonized directives:**

| | |
|---|---|
| 2014/35/EU | EU Directive - Safety of electrical equipment (LVD) |
| 2014/30/EU | EU Directive - Electromagnetic Compatibility (EMC) |
| 2014/53/EU | EU Directive – Radio Equipment Directive (RED) |
| 2015/863/EU | EU Directive - Restriction on use of Hazardous Substances (RHOS) |

**The following harmonized standards and technical specifications have been observed:**

| | |
|---|---|
| EMC for radio equipment (Electromagnetic compatibility). | EN 301 489-1 V2.2.3 /EN 301 489-17 V2.2.1 / EN 301 489-52 V1.1.0 /EN 301 489-3 V2.2.2/ EN 301 489-1 V2.2.3<br>EN62311:2008<br>EN IEC61851-21-2:2021 |
| Radio spectrum (RED) | EN 300 328 V2.2.2 / EN 300 330 V2.1.1/ EN 301 908 -1 V13.1.1 |
| Electrical safety | EN IEC 61851 - 1:2019, IEC 62955:2018 |
| RoHS | EN 63000:2018 |

**Additional Information:**

| |
|---|
| Compliance with harmonized standards and technical specifications may have been verified by the manufacturer, by third party testing or by a Certification Body (NCB) and is available for inspection by the relevant enforcement authorities. |
| The product(s) are manufactured at production site: Shenzhen XinDa Xing Eletric Tech. Co Ltd, 518101 Shenzhen, China |
| The production site is certified ISO 9001:2015 |

| | | |
|---|---|---|
| | | Signed on behalf of EVLY AS<br>Per Morten Brun |
| Tofte, Norway | 2025-04-01 | **CTO – Per Morten Brun** |
| Place of issue | Date of issue | Name, function, signature |

# Table of contents

| | |
|---|---|
| Intended use and safety Instructions | 4 |
| Product overview | 5 |
| Technical specifications | 6 |
| Installation | 10 |
| User manual | 14 |

# Intended use

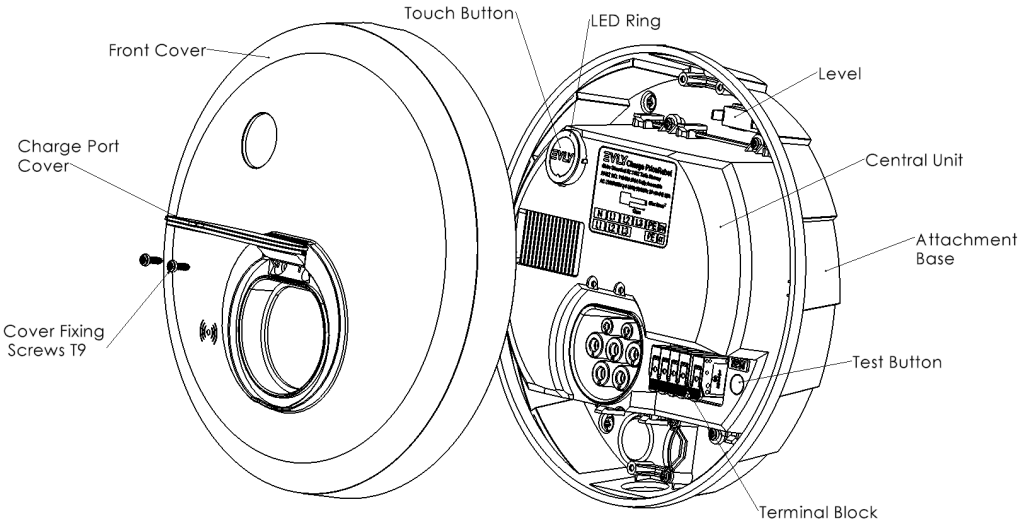
ELY charger is intended solely for charging electrically powered vehicles with batteries emitting no gas during charging. Observe the safety instructions carefully and make sure all-important instructions for the EVLY charger is followed during installation, operation and maintenance. The product shall only be used with a charging cable according to IEC 62196. The EVLY charger must only be installed, repaired, and maintained by qualified personnel. The product shall only operate under the operating parameters specified for the environmental conditions. Failure to follow all instructions and procedures covered in this manual will invalidate the guarantee and waive all raised liability and claims.

# Safety instructions

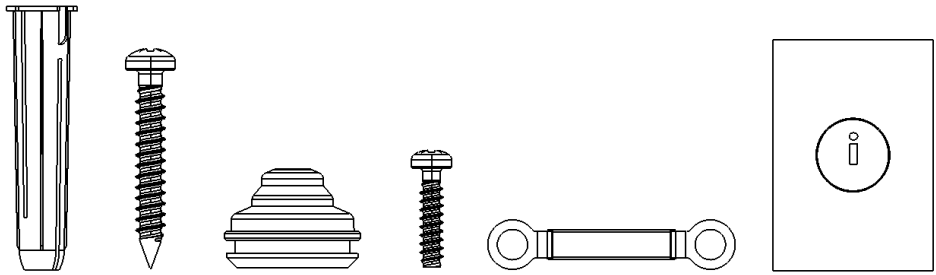
- The charger contains high electrical voltage and is danger to life. Do not attempt to disassemble, repair, tamper with, or modify the components, software or connecting cables.
- Do not use or touch the product if it is appearing cracked or is damaged in any way.
- This equipment must only be installed, repaired, and maintained by qualified personnel and in accordance with local requirements.
- Protect the charger against direct sun light, extreme whether conditions and areas with high temperature.
- Never clean the charger with high-pressure washers or running water.
- Do not install or use the charger in explosive areas.
- Make sure that children are supervised when charger is used around children.
- Never insert fingers or foreign objects into any part of the charger.
- Do not use the charging cable if it is damaged or if the connections are wet or dirty.
- Do not use adapters or extension cables in combination with the charger.
- Do not use the product near strong electromagnetic fields
- The charger must be earthed through a permanent wiring system.
- Warning against incorrect use or installation of the charger can potently damage the car onboard charger, the batteries and the charger its selves.
- Always install the charger on a permeant wall or a structure with sufficient lead bearing capacity. The installation surface shall always cover the entire backside of the charger.

# Product overview

A




# Additional Content



X4 X4 X2 X2 X1 X1

# Technical specification

A

| Enclosure and environment | | | | | |
|---|---|---|---|---|---|
| **DESCRIPTION** | SPECIFICATION | MIN | TYP | MAX | UNIT |
| **Dimensions** | | | Ø:252<br>D:82 | | mm |
| **Attachment** | Wall installation | | W:200<br>H:180 | | mm |
| **Operating temperature** | | -30 | | 40 | °C |
| **Attitude** | | | | 2000 | m |
| **Wight** | | | 1.3 | | Kg |
| **Degree of protection** | | | IP54 | | |
| **Impact resistance** | | | IK08 | | |
| **Insulation class** | | | I | | |
| **Pollution degree** | Installation environment | | 4 | | |
| **Access** | | | Private or public | | |

| User interface | |
|---|---|
| **DESCRIPTION** | SPECIFICATION |
| **Led strip circle** | 8x RGBW LED's showing status of charger and charging progress during changing |
| **Touch button** | Switch between smart charging and normal charging, interrupt charging process and enable onboarding of Bluetooth devices |
| **Charging port light** | Background light in charging port |
| **APP control** | IOS / Android |

| Charging performance | | | | | |
|---|---|---|---|---|---|
| **DESCRIPTION** | SPECIFICATION | MIN | TYP | MAX | UNIT |
| **Charging power** | TN 32 A 3 phase | | | 22 | kW |
| | TN 32 A 1 phase | | | 7.4 | |
| | IT 32 A 3 phase | | | 12.7 | |
| | IT 32A 1 phase | | | 7.4 | |
| **Rated voltage (Un)** | Phase Neutral | 230+/- 10% | | | V |
| | Phase to Phase | 400 +/-10% | | | |
| **Rated current (In)** | | | 32 | | A |
| **Rated frequency** | | | 50 | | Hz |
| **Idle power** | | | 2 | | W |
| **Over voltage category according to IEC61010-1** | | III | | | |
| **Socket power outlet according to 62196-2** | | Type 2 | | | |
| **Dynamic load balancing** | (Charge Always model) | | 3 | | Units |
| **Dynamic phase balancing** | (detected automatically) | Both IT and TN net | | | |
| **PriceRobot™** | (Built in) | Connects to Nordpool | | | |
| **Built-in energy meter** | (line voltage, current and power factor) | | 1.5 | | % |

| Connectivity | |
|---|---|
| **PROTOCOLS** | SUPPORTED STANDARDS |
| **4G (Built-in eSIM)** | LTE Cat M1 |
| **WI-FI** | IEEE 802.11 b/g/n (2.4GHz) |
| **Bluetooth** | BLE : Bluetooth V5 |
| **RFID /NFC** | Mifare Classic IEC 15693 type A (13.56MHz) |
| | IEC 14443 A (13.56MHz) |
| | NFC protocol T4T / P2P |
| **OCPP** | V1.6J (direct access) |

| Installation | | | | | |
|---|---|---|---|---|---|
| **DESCRIPTION** | SPECIFICATION | MIN | TYP | MAX | UNIT |
| **Grid network** | Automatically detected | | IT/TN/TT | | |
| **External circuit braker (recommended)** | C – curve MCB | | | 40 | A |
| **External RCD protection (required)** | Type A according to IEC/EN 61008-1/61009-1 | | 0.03 | | A |
| **Rated voltage (Un)** | Phase Neutral | | 230+/- 10% | | V |
| | Phase to Phase | | 400 +/-10% | | |
| **Rated current (In)** | | | 32 | | A |
| **Rated frequency** | | | 50 | | Hz |
| **Spring loaded terminals** | Operating temperature | | | 90 | °C |
| **Wire cross section** | | 2.5 | | 6 | $mm^2$ |
| **Cable diameter** | | 8 | | 21 | mm |
| **Cable strip length** | | | 12 | | mm |

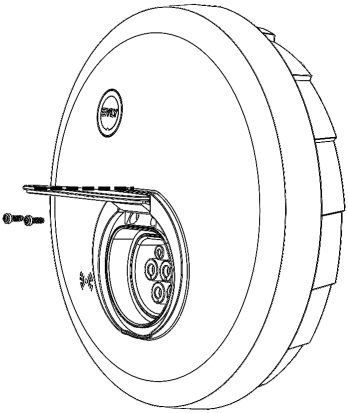
| Integrated DC ground fault protection RDC-DD | | | | | |
|---|---|---|---|---|---|
| **DESCRIPTION** | SYMBOL | MIN | TYP | MAX | UNIT |
| **Operating Characteristic** | | RDC-DD according to IEC62955 | | | |
| **Residual DC operating current** | IΔdc | | 0.006 | | A |
| **Making and braking capacity** | Im | | | 500 | A |
| **Residual making and braking capacity** | IΔm | | | 500 | A |
| **Rated conditional short-circuit current** | Inc | | | 3 | kA |
| **Rated residual conditional short-circuit current** | IΔc | | | 3 | kA |
| **Local test button** | O | According to EN IEC 62955:2018, 6 | | | |
| **Local indicator** | RED/GREEN | According to EN IEC 62955:2018, 8.1.2 | | | |

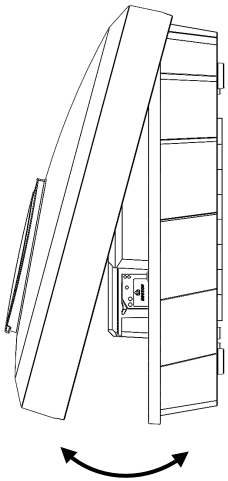
# Installation 1

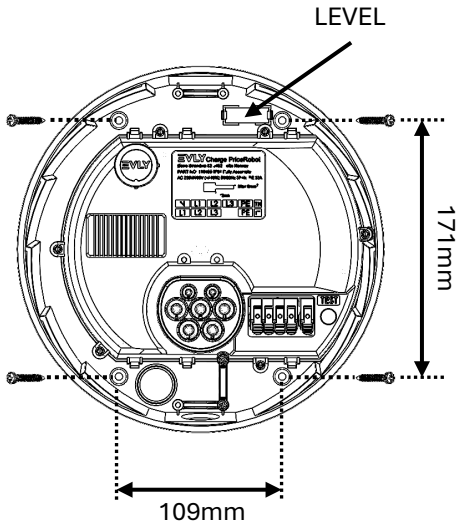
A

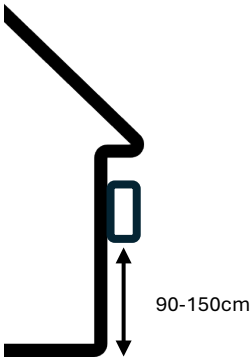
**Mounting the charging station**

Unscrew the two fixing screws located behind the charging lid. Remove the front cover. Make sure to install the charging station straight by using the built-in sprit level. Fix the charging station with the 4x screws at proper height between 90-150cm above the ground.



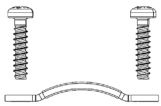


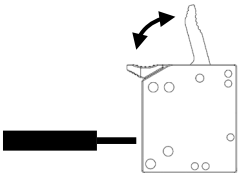


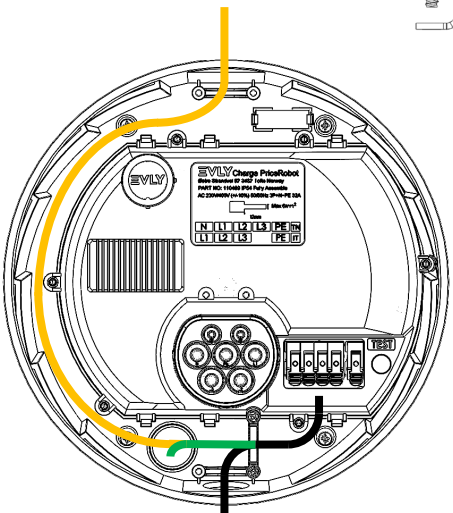



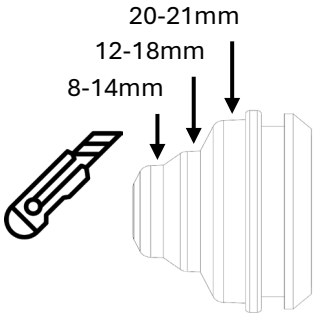
# Installation 2

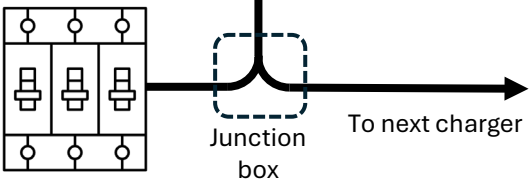
A



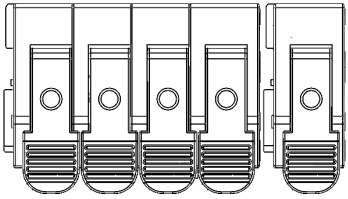



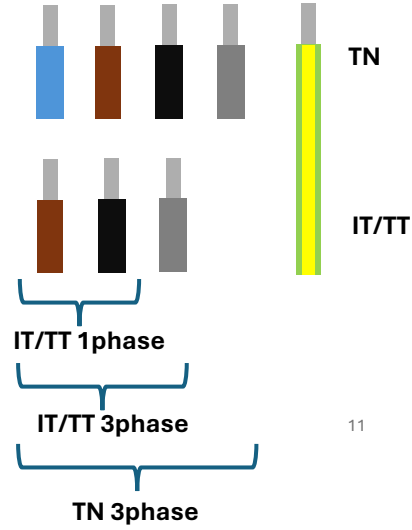





| | | | | | |
|---|---|---|---|---|---|
| N | L1 | L2 | L3 | PE | TN |
| L1 | L2 | L3 | | PE | IT |





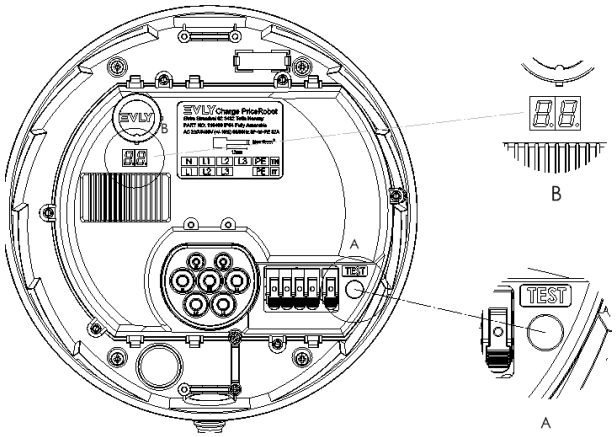

**Connecting the power cable**

EVLY has tree options for entry of the power cable, top, bottom and back. The stepped gromet can be cut to fit the chosen cable diameter. If cable is entered true top or back the weakening must be cut out carefully. Fit the cable clamp and seals necessary to make a secure installation. The installation requires an upstream multipole circuit braker and an RCD type A (30mA) - see “Installation Table”. Connect all the wires according label instructions and firmly press down all levers shown in the illustration. With EVLY up to three chargers can share the same power line. The same connecting procedure should be repeated when installing multiple chargers. Turn on the circuit breaker

**Configure the charger**
The only configuration required by a qualified electrician is to set the detailed circuit fuse size. After first power up the LED circle will show pink color.

1. Tap the test button once so the LED display starts to blink.
2. Then tap again the test touch button multiple times until you reach the desired fuse size value. (NOTE: AP value means that the fuse size can be set from the app by user.)
3. Release the test touch button and wait few seconds for the setup procedure to terminate. The LED display will stop blinking.
4. The LED circle shall now show white color (ready to charge)

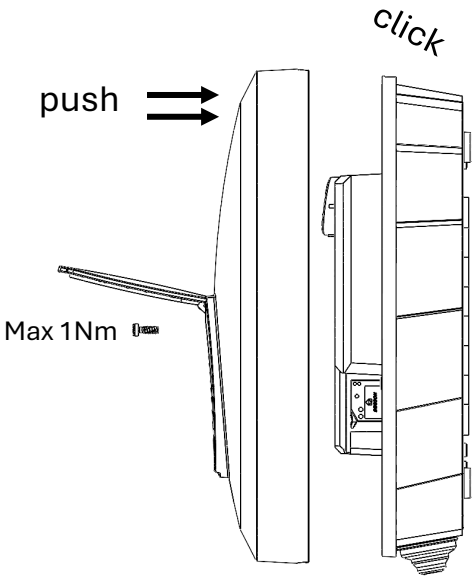
**Factory reset**
To reset charger configuration back to factory default state – press and hold the test touch button for 10 second.




**Testing RCD-DD ground protections unit (optional)**
EVLY is one of few chargers on the market with fully integrated RCD ground fault protection unit according to IEC 62955. The RCD performance can easily be verified during installation by pressing the test button after a charging cable has been connected between the charging station and the car. A green and red LED behind the test button indicates the state of the RCD unite. Red color means ground fault detected while green color means all OK. Pull out the charging cable to reset the ground fault alarm. NOTE: that the charger has a built-in safety feature that automatically performs a test of the RCD unit before each new charging session take place.

**Closing the enclosure**

Replace the front cover by pressing carefully by hand it in the top of the cover until you hear a click sound. Screw the two locking screws behind the charging port to secure the front cover. Your EVLY charger is now ready for use!




That's it! You can now give the user manual to the owner and live it to user to download the EVLY app to configure the site and add the desired charging parameters to take advantage of the provided smart charging features.

Scan for android

Scan for IOS

# User manual

A

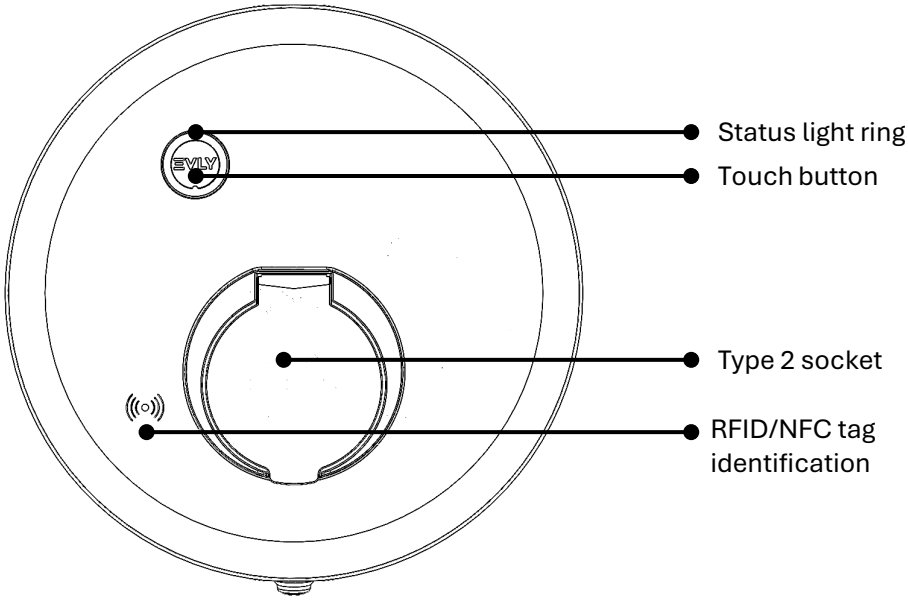
**The EVLY experience**
Once the authorized electrician has finished the installation, you can download the EVLY app and enjoy the experience of the market most advanced charging technology jet with the easiest user interface. Get all the insight information about the chairing session, share access to the charger with family and friends, take advantage of our off-cloud technology for best internet security, and be supported with the marked lowest energy prices with our PriceRobot™.



1 — 2 — 3 — 4

**Get to know your EVLY charger**

Before start using the charger, it is important to familiarize with the safety instructions and ensure they are followed. The user manual contains important information on how the charger should be used. Failure to follow the safety instructions will wave all lability and clams related to product or surroundings.

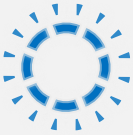



A 5-year warranty is provided against damages to the product due to manufacturing defects. The warranty is valid from the date of purchase. The warranty applies as long as the product is used in a responsible manner in a private home and according to the given instructions. The warranty responsibility is limited to replacing the damaged product. Damages caused by external factors such as water, impact, negligence, improper use, or damage by a third party to the product are not covered by the warranty. The warranty is also voided entirely if unauthorized intervention has been performed on the product. Claims regarding the warranty should be directed to the point of sale. Before the warranty claim can be processed, a written explanation of how the damage occurred must be attached. For visible damages to the product, pictures showing the extent of the damage should also be provided. The product owner is not responsible for any direct or indirect loss or damage resulting from the use of the product. The customer cannot make any claims for compensation based on consequential damages

**Led status normal operation**

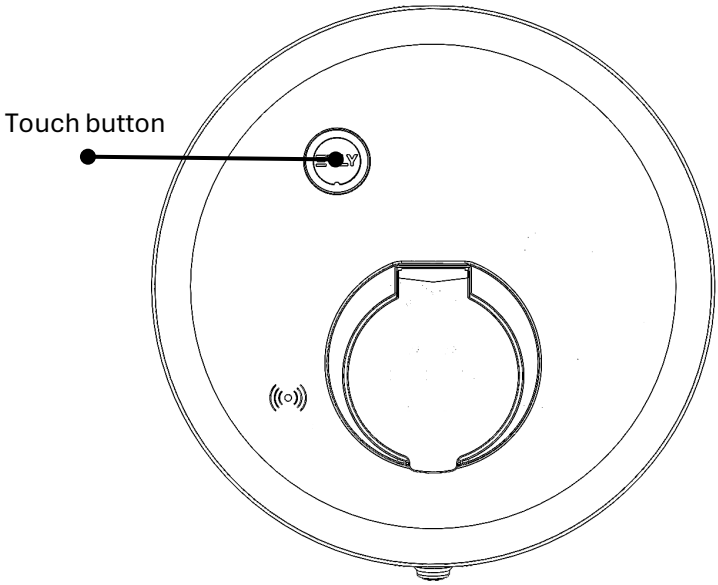
| LED-indication | Status | Description |
|---|---|---|
|  | Standby | Charging cable disconnected |
|  | Waiting for user authentication | Private mode. Authentication when a valid phone is in the Wi-Fi network or connected to charger with Bluetooth. |
|  | Charging waiting | Chargers sharing the same power cable are automatically exchanging maximum available charging current before start |
|  | Charging complete | |
|  | Charging | Each segment blinks for 1 hour. Last segment will blink until the car is fully charged |
|  | Smart charging complete | |
|  | Smart charging waiting | Waiting for the PriceRobot™ to start scheduled smart charging Push button to abort smart charging – and start charging immediately |
|  | Smart charging started | Each segment blinks according to achieved refill amount. Push button to abort smart charging – and start charging immediately |
|  | Continue charging | Charing session has reached the refill limit – but charging continues until car or user interrupts the charging session. Push button to abort smart charging – and start charging immediately |

**LED status abnormal operation**

| LED-indication | Status | Description |
|---|---|---|
|  | Select circuit fuse size | Waiting for authorized electrician to finish installation |
|  | Wi-Fi connection lost | Can not connect to Wi-Fi. Check Wi-Fi connection. |
|  | Updating firmware | Wait until firmware update has been downloaded |
|  | Internet connection is lost | Check that your local access point is connect to internet |
|  | Error detected | Unplug vehicle and restart the charger. If the red led is not cleared, contact your installer. Pls read the error code on the local display according to table below |
|  | Bluetooth activated | The charger is being configured and has active Bluetooth connection with phone |

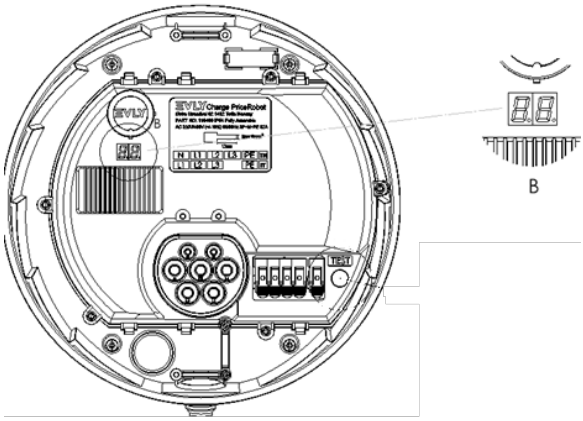
**User touch button**
The user touch button can be used for quick access to the most present features

| Steps | Actions | Description |
|---|---|---|
| 1 | Tap | Tap the button once to stop smart charging and start normal charging<br>(charging starts immediately ) |
| 2 | 2 sec | Press and hold the touch button on charger for two seconds to stop ongoing charging and unlock the cable |
| 3 | 10 sec | Press and hold the touch button on charger for ten seconds to reboot the charger |



**Display error codes**

| Display – error code | Description |
|---|---|
| 00 | Firmware error. Contact support. |
| 01 | PE ground cable is disconnected. Contact an electrician. |
| 02 | Charging cable lock motor is blocked. Try to restart the charger by cycling the circuit breaker. |
| 03 | RCD ground fault detected. Unplug the cable to reset the error |
| 04 | Charger is overheated or operating temperature are exceeded. Unplug the cable and wait until the temperature is normal before resume charging. |
| 05 | Overvoltage is detected – charging is stopped. Try to restart the charger by cycling the circuit breaker. |
| 06 | Relay faut has been detected. Contact support. |
| 07 | Communications with the car has failed. Unplug the cable to reset the error |



**Get connected**

Download the app from google play or apple app store. Once the app is installed you can configure the charger parameters, establish multiple sites, monitor the charging process and adjust settings for the charging sessions.

**NOTE:**

The charger must be connected to a 2.4Ghz Wi-Fi network before you can start using the smart features. Follow the steps in the app to add a new charger to your place, and to connect the charger to Internet.




How to install

**How to connect your APP to the charger (Quick guide)**
Before you start the onboarding process – you must stand close to the charger, and your smart phone must be connected to your local Wi-Fi network (2,4ghz)

| Steps | Actions | Description |
|---|---|---|
| 1 | Add new charger<br>Existing charger | Press “add new charger button” in APP<br>Press Existing charger if you want connect to an exiting charger |
| 2 | Activate Bluetooth | Press the touch button on charger so the led ring turns blue |
| 3 | Bond with phone | Select the changer form the list |
| 4 | Charger Name | Give the charger a name |
| 5 | Create a new site<br><br>Add to existing site | • If you want to install the charger on a new location<br>• If you want to install an additional charger on the same circuit fuse |
| 6 | Add parameters | • Give the site where the charger is located a name<br>• Select energy price region where the site is located<br>• Add site fuse size (NOTE: this value can already be configured) |
| 7 | WI-FI connection<br>4G connection | • Add your WI-FI password<br>• If you have no WI-FI converge, press disable button in the upper right corner to connect with 4G data |
| 8 | Wait | Wait until the charger is configured |

**How to connect your APP to the charger (Quick guide)**

NOTE: your phone need to be connected to a 2,4ghz Wi-Fi network before the installation starts.



**Stay connected with EVLY cloudless technology**
EVLY smart charger technology do not use a cloud system to stay connected. It means that all private data is only stored locally on your charger protected behind your private local network. Access to changing parameters is only granted when you are in your private network, while insight charging status and push messages are always keeping you updated from anywhere. EVLY charger will always keep you updated with fallback to 4G and Bluetooth in situations where the local Wi-Fi network is temporary discontinued or not available.

**PriceRobot™ energy management**
All smart charging features are included in the charger which means it automatically adept's the charging prosses according to the lowest energy cost. This feature will only work in countries that is a member of the European Union Agency for the Cooperation of Energy Regulators (ACER)

**Get supported**
We will always go the extra mile to give you our best support. If you have any support questions pls contact your local dealer or drop us an e-mail on support@evly.no
You can also reach us in the chat by visiting www.evly.no