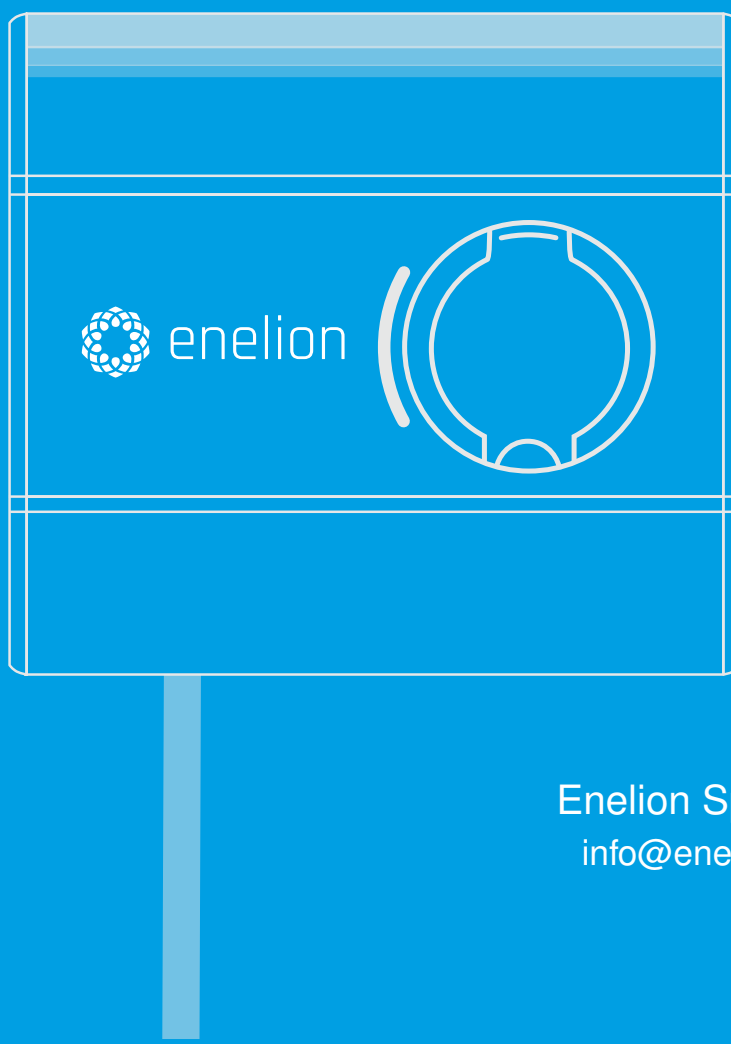
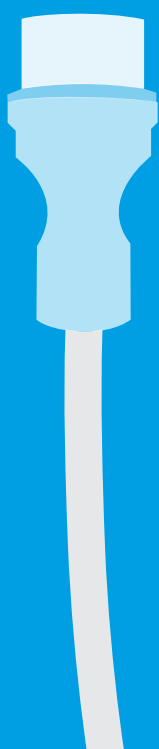


# Wallbox Easy

Assembly manual



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Congratulations on the purchase of the Enelion charger and thank you for your trust. Before the installation, make sure that the module packages contain all the elements. Current version of the operation manual can be accessed at <http://enelion.pl/pomoc>.

See the contents of the manual before initiating any activities related to the installation or the activation of the charger.

## 1. General provisions

### 1.1. General provisions

The Enelion charger (hereinafter called the device, charger or charging terminal) is a charging station intended for charging electric vehicles within the meaning of the “Act on electromobility and alternative fuels” of January 11, 2018 in points 5, 12, 13 and 27 of Art. 2 of the above act.

Installation and servicing of the device must be performed by qualified and authorized persons, and repairs may only be carried out by the manufacturer or entities authorized by the manufacturer.

Tampering with the mechanical, electrical and electronic components and the device software is forbidden and shall result in the nullification of the warranty. The exceptions include operations described herein and those agreed in writing with the manufacturer.

The manufacturer is not responsible for damage to property resulting from the forbidden interference in the product.

The electrical installation to be used by the device during its operation must meet the conditions described in the installation manual. The manufacturer is not responsible for incorrect assembly and/or protection of the electrical installation to which the device is connected.

The manufacturer is not responsible for the malfunction of the electrical installation to which the device is connected.

The electrical installation to be used by the device during its operation must comply with the legal standards in force in the place of assembly and the operation of the device. The manufacturer is not liable for any damage caused by an electrical installation that does not meet legal standards.

The device does not have a built-in switch. The device activates when the supply voltage is applied. The power supply cut off function must be provided by the appropriate electrical installation devices described in the assembly manual. Except in emergencies, the device must not be turned off during the charging process.

It is forbidden to supply the power to the device when the device casing remains open.

It is forbidden to use a mechanically damaged charger or a charger that indicates a critical error.

It is forbidden to place any objects in the charger socket not intended for this purpose. A working power cable

with a cross-section appropriate for the power supplied to the device and appropriate for the type of electric vehicle, terminated with a functional plug type 2 in accordance with EC 62196-2 is the only object that may be plugged in the charger socket.

It is forbidden to use any cable extensions to be connected to the charging cable.

The manufacturer is not responsible for loss of health or life by any persons resulting from failure to comply with the above-mentioned recommendations.

The data plate on the device is an integral part of the device and its removal or damage shall result in the nullification of the warranty.

### 1.2. Safety instructions

Outdoor installation should not be carried out during precipitation or strong wind, if there is a risk of water or dirt getting into the device.

All operations described in this manual should be performed only after making sure that there is no voltage in the power cord.

## 2. General information

Wallbox Easy is a charging station encased in aluminum cover with strengthened polymer sides, intended for electric passenger vehicles. It includes a charging control module, a front panel with a LED signaling system and a TYPE 2 socket.

Enelion Wallbox Easy is available in silver color and with three modes of connection:

- K - 16 A 230 V power supply cable with „unis-chuko“ plug offering maximum charging power of 3,7 kW.
- T - 16 A 400 V power supply cable with 6H plug offering maximum charging power of 11 kW.
- H - 32 A 400 V power supply cable with 6H plug offering maximum charging power of 22 kW.

Enelion Wallbox Easy operates in Plug Charge mode, activating the charging once the car has been connected.



Fig. 1: Enelion Wallbox Easy.

### 2.1. Opening and closing of Enelion Wallbox Easy

#### ⚠ WARNING

Enelion Wallbox Easy is not a device intended to be opened. Tampering with its casing shall result in the nullification of the warranty.

#### i INFO

See „User manual“ to learn more. The manual contains detailed information on the functionality and use of the device.

### 3. Design indications of the installation

#### 3.1. Recommended power connection

Enelion charging stations are adapted to five-wire power supply from TN-S type grid. It is possible to apply three-wire power supply from TN-S type grid.

Enelion charging terminal must be powered from the electrical distribution board. The switchgear must have the required protections in the form of an overcurrent circuit breaker with B or C characteristics and rated current of 32A or lower, appropriate to the device version. To be compliant with the PN-EN IEC 61851-1: 2019-10 standard, each charging point must also be protected against type B residual current. This requirement must be met by:

1. installation of a type B residual current device (RCD B 30 mA/40 A) or RCD EV (30 mA/40 A) in the switchboard..

The final selection of the safety devices belongs to an authorized designer or a qualified electrician.

The cross-section of the power supply cables must be selected by an authorized electrician, depending on the distance from the switchgear and other conditions pertinent to the location. To obtain the maximum charging power, the use of cables with a conductor cross-section equal to or greater than 6 mm<sup>2</sup> is recommended.

Cables running underground must be installed in accordance with the binding building regulations. For convenient installation, flexible power cables, stranded type, terminated with clamping sleeves are recommended.

Enelion Wallbox Easy devices can be connected to sockets compatible with the device version. The available variants are:

1. K - 16 A 230 V power supply cable with "unis-chuko" plug offering maximum charging power of 3,7 kW.
2. T - 16 A 400 V power supply cable with 6H plug offering maximum charging power of 11 kW.
3. H -32 A 400 V power supply cable with 6H plug offering maximum charging power of 22 kW.

#### 3.2. Location selection criteria

Wall-mounted Enelion devices may be installed both inside or outside. The device is designed to be installed

near parking spaces for electric vehicles. When used in the vehicle collision hazard zone, the structure should be secured with appropriate fenders painted in yellow and black stripes (warning about the gauge).

Please bear in mind that national regulations may define the place for the installation. The device should not be located in a place of high exposure to sunlight, which could cause overheating. Do not install the device near heat sources or in small, closed cubicles (e.g. in a box).

It is forbidden to install a power cord that does not comply with the guidelines in section 3.1 *Recommended power connection*. It is forbidden to install the device in potentially explosive environment.

Local regulations for electrical installations, fire prevention measures and accident prevention must be taken into account, and escape routes at the installation site must be provided.

It is forbidden to install the device in a location where falling objects may damage the charger.

Before installation, make sure that the mounting space for the device is sufficient.

Wallbox units, should have at least:

1. 10 cm clearance on each side of the unit.

#### WARNING

The manufacturer accepts no responsibility for any damage resulting from failure to comply with the above-mentioned recommendations.

## 4. Assembly

### ⚠ WARNING

Before commencing the installation, switch off the power supplied to the cables.

### 4.1. Preparing the installation

1. Place the packaged Enelion Wallbox Easy horizontally, in accordance with the markings on the outside. Cut the package open along the indicated line. Take the device out of the cardboard box, remove the polystyrene protective casing and put the device in the correct horizontal position.
2. Enelion Wallbox Easy is mounted on vertical surfaces with the use of mounting clamp (two elements affixed to the device casing and two holds mounted on the wall) which has four mounting holes (indicated in the drawing by arrows).
3. Before the installation, unscrew the two bottom bolts and loosen the top ones. Next, separate the two clamp holds from the device.

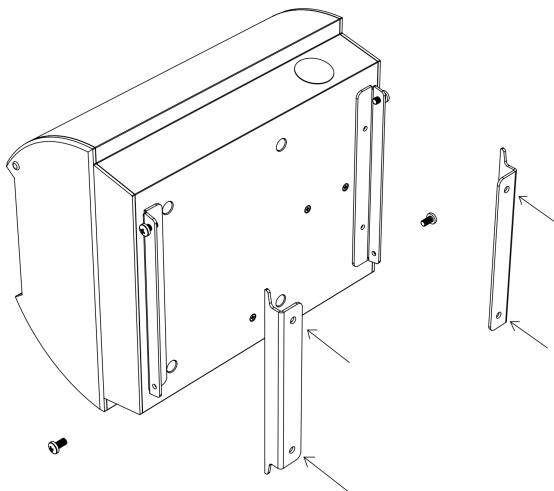


Fig. 2: Preparing the installation

### 4.2. Selection of bolts and anchors

In order to choose the mounting method appropriate for the surface consider the information below:

1. Four assembly holes of 5,5 mm diameter are located on a rectangular plan of 232 mm x 120 mm (width by height).
2. The device weighs 2,8 kg,
3. The mounting must provide stability for the device to withstand significant forces affecting it when plugging and unplugging the charging cable in the socket.

### ⚠ WARNING

Use all mounting holes in the process of installation.

### 4.3. Mounting the device

#### ℹ INFO

A template facilitating the assembly of the device has been included.

1. Determine the final position of the device using the attached template and a level and mark the mounting holes (specified on the template together with the outline of the device). Mounting holes should be at least 5 cm from the edge of the wall, and in the case of a recess – at a distance from the edge of the recess that provides sufficient access for a screwdriver to the mounting clamps (on both sides).
2. Make assembly holes and install the anchors. Mounting holes should be made in accordance with the specification of anchors (expansion bolts). The anchors should be placed in the cleaned holes.
3. Place the elements of the clamps to the holes and affix them to the mounting surface, observing the vertical and horizontal.
4. Hang the device on the clamps.



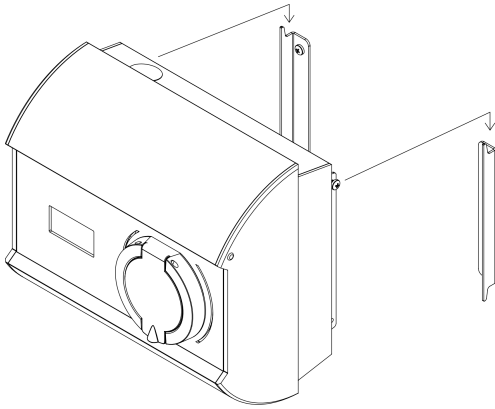


Fig. 3: Mounting Wallbox Easy on the affixed clamps.

5. Screw in the bottom bolts all the way to secure the device. Next, tighten the upper bolts.

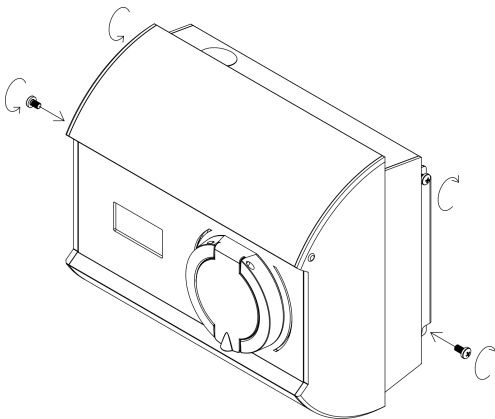


Fig. 4: Fastening (locking) the device with securing bolts.

The device may now be connected to the power supply.

## 5. Connection

### 5.1. Power connection

Enelion Wallbox Easy comes in three types. Depending on which type is being installed, different electric socket will be required. ?? depicts the possible methods of connection.

#### 5.1.1. Standard power connection

Connect the device depending on the type of the device.

1. K - Type E (CEE 7/5) or Type F (CEE 7/3) socket - 16 A 230 V,
2. T - 6H CEE 17 socket, IEC/EN 60309 16 A 400 V,
3. H - 6H CEE 17 socket, IEC/EN 60309 32 A 400 V.

#### INFO

After connecting the cable, the power may be supplied to the socket.

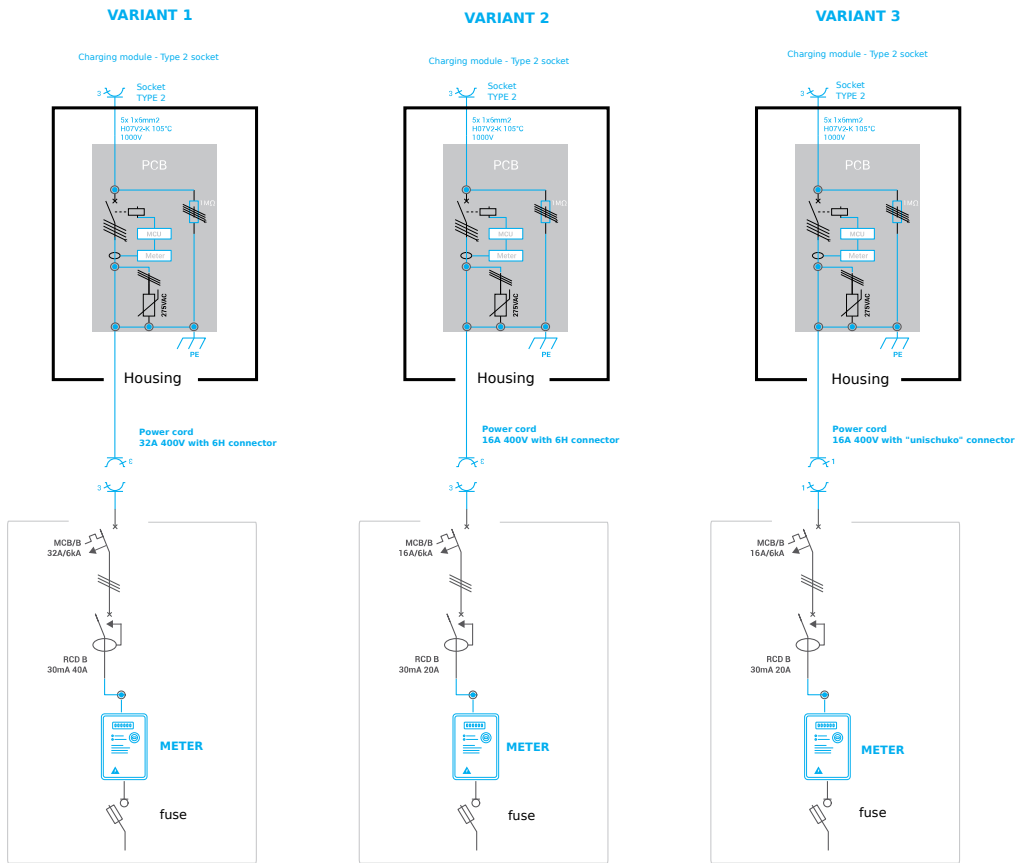


Fig. 5: Connection variants

## 6. Maintenance

The device is designed to operate in temperatures from  $-25^{\circ}\text{C}$  to  $55^{\circ}\text{C}$ . The manufacturer does not guarantee the proper functioning of the charging station in temperatures outside the specified range. Chargers that are damaged because of exposure to temperatures below  $-25^{\circ}\text{C}$  or above  $55^{\circ}\text{C}$  are not covered under the warranty. In case it is necessary to open the device, make sure that it is disconnected from the power source. With the device installed outdoors, make sure that there is no precipitation or strong wind.

### WARNING

The device may only be opened by a qualified and authorized person.

### 6.1. Cleaning

The correct way to clean the charger is to wipe the housing with a microfiber cloth using a cleaning agent dedicated to anodized aluminum. Plexiglas elements (front panel) and plastic elements (socket) should be cleaned with a microfiber cloth using a cleaning agent dedicated to cleaning window panes. Other cleaning methods (e.g. wire brush) may lead to the damage of the device housing. Damage resulting from improper cleaning of the device does not constitute grounds for warranty claims.

### WARNING

The device meets the IP 54 standard. Therefore, it is forbidden to wash the charger with pressure washers, garden hoses, shower or any other water stream.

## 7. Technical data

### 7.1. Enelion Wallbox Easy

| Electrical data             |  |
|-----------------------------|--|
| Routing of the power cord   | External   |
| Power cord cross-section    | Integrated power cord  |
| Supply voltage (Europe)     | Depending on version: <ul style="list-style-type: none"> <li>• K 230 V</li> <li>• T, H - 3 x SI3x230 V/400 V<sub>AC</sub></li> </ul> |
| Voltage frequency           | 50 Hz/60 Hz  |
| Network type                | TN, TT   |
| Overvoltage category        | III according to EN 60664-1  |
| Rated short-circuit current | Effective value < 6 kA according to EN 61439-1   |
| Overcurrent protection      | Not included. Protection to be made in accordance with the locally valid regulations and according to the version of the device.     |
| Protection Class            | Class I  |
| Socket type                 | Type 2, standard socket 32 A/400 V <sub>AC</sub> in accordance with EN 62196-1   |

| Mechanical data                     |                          |
|-------------------------------------|--------------------------|
| Dimensions (width x height x depth) | 271 mm x 249 mm x 173 mm |
| Weight                              | 2,75 kg ± 5%             |
| IP Class                            | IP54                     |
| Mechanical strength class           | IK10                     |

| Ambient conditions              |                                 |
|---------------------------------|---------------------------------|
| Working temperature             | from -25 °C to 55 °C            |
| Storage temperature range       | from -40 °C to 80 °C            |
| Permitted relative air humidity | from 5% to 95%                  |
| Elevation                       | max. 2000 m above the sea level |



