



# EDGE

## User Manual

Guide to the use of the drive unit



## Purpose of the manual

This manual is an integral part of the drive unit and has been drawn up by the manufacturer in its original language (Italian) to provide all the information necessary for an adequate and safe use of the drive unit and the HMI unit throughout their life cycle (from transport, delivery, installation, use and maintenance to disposal).

Before carrying out any operation, users and technicians must carefully read the instructions and scrupulously comply with them. If you have any doubts about their correct interpretation, consult the manufacturer to obtain the necessary clarifications. Only by observing the following is the smooth operation of the unit over time and the onset of dangerous situations for people and things avoided.

The manual provides warnings and indications relating to safety rule for the prevention of accidents. In any case, the safety rules imposed on them by current regulations must be observed with the utmost care by the operators. Any changes to the safety rules that may take place over time must be transposed and implemented.



**CAUTION:** It is recommended that you read this manual carefully before installing and operating the unit.

OLI e-bike Systems with a view to continuous improvement may change without notice some characteristics of the components used. This does not affect the validity of the information contained in this document. If inconsistencies are found between what is described in the manual and the use of the machine, please inform the manufacturer.



**IMPORTANT:** The updated copy of this manual can be found on the website [www.oli-e-bike.com](http://www.oli-e-bike.com)

## Preservation of the manual

The installation, use and maintenance manual must accompany the unit throughout its life cycle and must be available to all operators and technicians who may need it. The manual must follow the unit if it is transferred to a new user or owner.

## Constructor

Our company is at your disposal for any problem or information.

Communications and requests can be forwarded to:

### OLI e-bike Systems srl

Via delle Pesche, 821 - 47522 Cesena - (FC) -ITALY

Phone +39 0547 318322

[info@oli-e-bike.com](mailto:info@oli-e-bike.com)

[www.oli-e-bike.com](http://www.oli-e-bike.com)

## Guarantee and returns

The drive unit is covered by a material warranty for a period of 24 months from the date shown on the proof of purchase, unless otherwise agreed with the e-bike manufacturer. The buyer loses the right to the warranty in case of incorrect installation or use or when he has made changes or repairs to the supply without the authorization of the manufacturer. Upon receipt of the product, the recipient must verify that there are no defects, damage resulting from transport and / or incompleteness in the supply. Any complaints must be immediately reported to the manufacturer by written communication and countersigned by the carrier. Labor services such as sending a technician are excluded from the warranty. Under no circumstances may compensation be claimed for damages. For further clarification on the warranty service conditions, please refer to the sales contract.

In case of return of the product, if you have kept the original packaging, reuse it for shipping. Otherwise store the drive unit and/or the display in a box trying to protect them as best as possible from any shocks caused by transport.

## Technical assistance

Ordinary and extraordinary maintenance must take place in accordance with the instructions contained in this manual. For any cases not included and for any kind of assistance, it is recommended to contact the manufacturer directly, referring to the data reported on the identification plate of the unit: Model and Serial number.

The correct reference guarantees quick and precise answers.

# Safety

Read all safety warnings and instructions. Failure to follow the safety warnings and instructions can result in electric shock, fire and / or serious injury.

Do not modify the engine to increase the speed, this modification makes the vehicle illegal and may not comply with traffic regulations. Any changes may affect the life and integrity of the engine.

All unauthorized modifications will invalidate the guarantee. Furthermore, a modified e-bike could lead to accidents for which substantial compensation must be paid.

Accidental activation of the vehicle can cause injury (even in the case of the push aid).

Walk mode may involve the rotation of the pedals, therefore keep at a distance that does not interfere with them.

In order to minimise the causes that can create hazardous situations for users and others, we encourage you to adopt good rules of behaviour. Particularly when using the e-bike, it is good practice to respect the following points:

- consult your doctor before starting a training program;
- observe the traffic regulations relating to pedal assisted bicycles;
- don't get distracted by looking at the display when you are riding the bicycle;
- do not use the display as a handle;
- only use the HMI unit and the control panel supplied;
- remove the battery before performing any type of operation.

The drive unit does not require internal revision; therefore, it must not be opened, except by authorized personnel in the presence of defects. Unauthorized opening will void the warranty.

The components mounted on the engine can be replaced with identical material or approved as such.

It is necessary to remove the battery:

- Before any intervention on the e-bike
- During transport by car / plane
- In case of conservation

 **IMPORTANT:** The manufacturer declines all responsibility for damage to persons or property resulting from improper use of the equipment, from errors in installation and use or from inexperience, imprudence and negligence with respect to the indications / instructions given in this manual.

 **IMPORTANT:** The manufacturer declines all responsibility for damage to persons or property, as well as to the defective operation of the unit if no original spare parts and products recommended for cleaning and maintenance are used.

 **CAUTION:** In conditions of high use of the e-bike on demanding routes, such as steep and prolonged climbs at low speeds, the Drive Unit can reach temperatures of over 60 ° C. These depend on the ambient temperature, the altitude of the route, the duration of the route and the mode of assistance and weight in running order. **Do not touch the engine with hands and legs without protection.**

## Identification of the drive unit

The identification of the drive unit takes place through the manufacturer's plate. The label shows the following data.

- Model
- Internal code OLI e-bike Systems
- Serial Number



 **IMPORTANT:** The identification plate must never be removed.

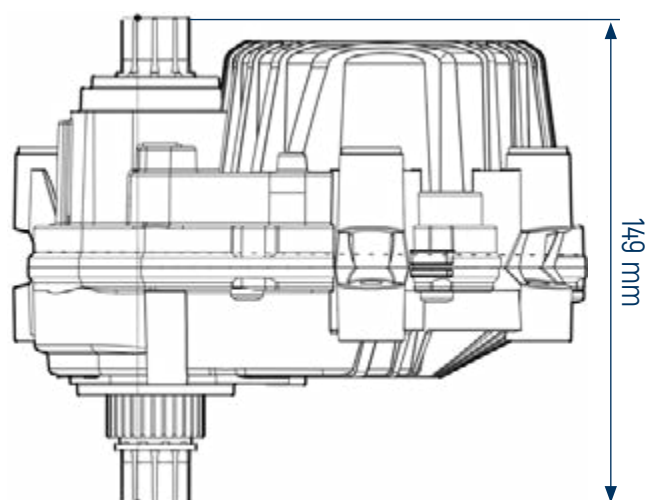
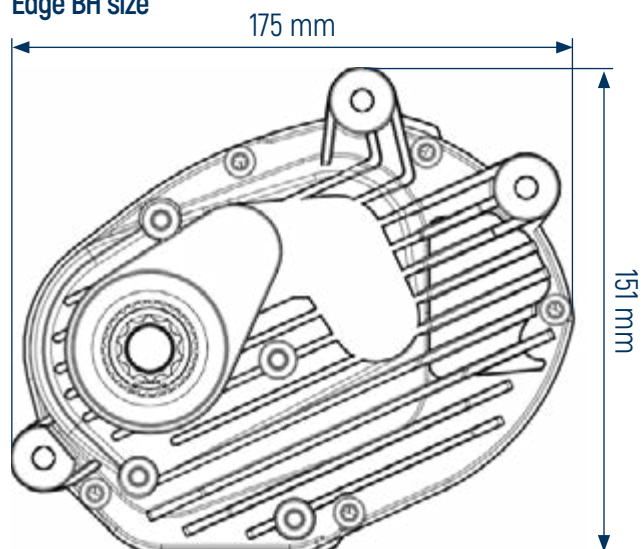
## General information

There are two different configurations of the Edge unit, identifiable by the BH or SH code shown on the manufacturer's plate.

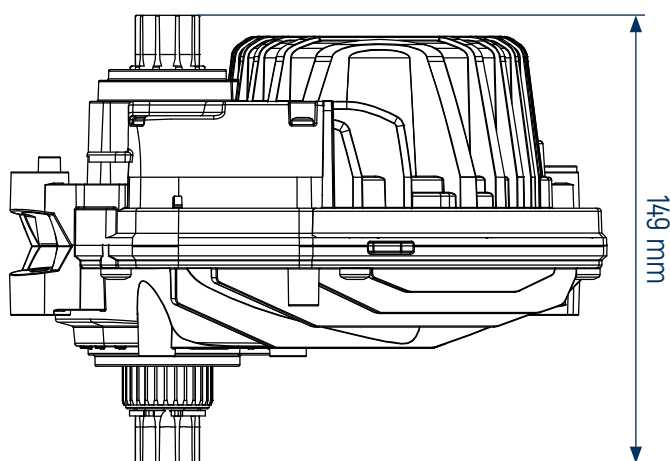
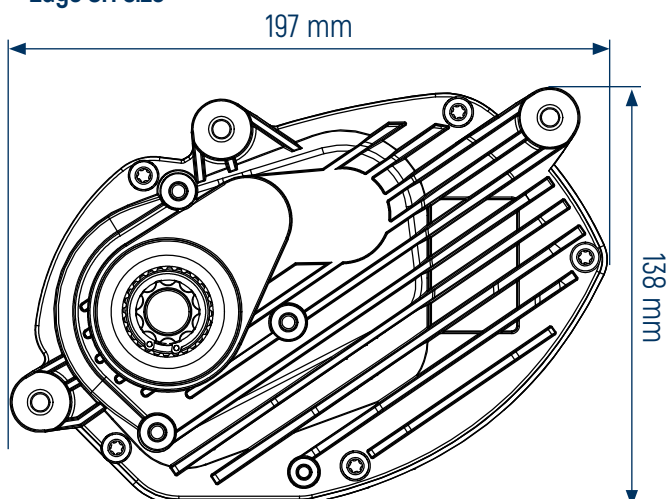
The BH and SH models have the same mechanical and electromagnetic characteristics, differing only in the position of the supports to the e-bike frame.

|                        |                  |
|------------------------|------------------|
| Nominal Voltage        | 36 V             |
| Weight                 | 3,1 kg           |
| Torque                 | 90 Nm            |
| Power                  | 250 W            |
| Speed / Walk           | 25 km/h / 6 km/h |
| Comunication protocols | CANBUS / UART    |
| Operating Temperature  | -5°C / 40°C      |
| Storage Temperature    | -10°C / 50°C     |
| Position               | Bottom Bracket   |
| Protection Type        | IP 54            |

Edge BH size



Edge SH size



## Use and Autonomy

The drive unit is designed to be used exclusively in the e-bike on which it is applied.

For correct use, always refer to the e-bike manufacturer's user manual.

It is not possible to predict the exact mileage that can be reached with one battery charge as there are several factors that affect range, the main ones being:

assistance level, speed, pedaling Cadence, tire type and pressure, age and maintenance status of the battery, difference in altitude and characteristics of the road surface, presence of headwind, climate, weight of e-bike, weight of cyclist

It is therefore recommended:

- Act on the gearbox to use the best gear in relation to the route, in such a way as to apply the least possible force on the pedals and therefore increase the distance covered.
- Where possible, use a lower level of assistance to increase system autonomy.

## Maintenance

It is recommended to periodically check the drive unit to check the integrity of the components and the firmware. Before installing lights on the e-bike, check that they are compatible and have the same voltage as the drive unit.

Respect the operating and storage temperatures of the drive unit.

It is important to protect the unit from temperatures outside the recommended temperature ranges, such as heat sources and unventilated environments with strong solar radiation.

For assistance or repairs, contact an authorized dealer.

## Cleaning

Cleaning operations do not require dedicated products or tools. None of the components, including the drive unit, should be immersed in water or cleaned with a high pressure jet. To clean the motor and the HMI unit, use only a cloth moistened with water.

 **CAUTION:** Do not use aggressive products. Never use abrasive products or powders or basic or acid chemical detergents.

 **IMPORTANT:** The manufacturer declines all responsibility for damage caused by incorrect cleaning or deriving from the use of unsuitable products.

## Demolition and disposal

HMI unit, display, keypad, various accessories, and packaging must be disposed of in accordance with environmental regulations existing. Do not throw the various components into household waste bins.

Do not throw this product into the fire.

### FOR UE COUNTRIES ONLY:

in accordance with European Directive 2012/19/EU electrical appliances that have become unusable and, according to European Directive 2006/66/EC, Rechargeable batteries/defective or worn batteries must be collected separately and sent for environmentally friendly reuse.

Return the non-functioning HMI unit to an authorized e-bike dealership.

## F.A.Q.

I see an error code on the screen. What should I do now?

- The error code shows that something happened irregular. We recommend that you contact your dealer at brief. The bicycle will not be damaged if you use it keep using.

How to store the e-bike?

- Store in a cool, covered place with a stable temperature between about 10° and 20°C.
- No direct exposure to sunlight or rain.
- Charge the battery to approximately 70% before storing. Every six months, charge the battery to approx.70%.
- Before using the battery again, charge it fully.

Is the OLI-e-bike Systems waterproof?

- Yes, the OLI system is waterproof for use in normal driving conditions, including heavy rain. Please not to use a high pressure jet to clean the bicycle or immerse the motor in water.

How much power do OLI electrical systems have?

- All our systems are in compliance with the law European, therefore have a nominal 250W.

## Notes

[illegible]

## Notes

[illegible]



**OLI eBike Systems srl**

Via delle Pesche n. 821, 47522 Cesena (FC) - Italy

Tel. +39 0547 318 322

[info@oli-ebike.com](mailto:info@oli-ebike.com)

[customerservice@oli-ebike.com](mailto:customerservice@oli-ebike.com)

[www.oli-ebike.com](http://www.oli-ebike.com)

