



INSTALLATION AND OPERATING INSTRUCTIONS



Battery for electric bicycle drive
EVBAT36V10A

Thank you for purchasing EVBIKE battery set. We believe that you will be fully satisfied with its use.

Before installing and first use, read carefully the instructions!

If you have found a fact, in the manual, that could prevent from use of the product, please return it before installing in the undamaged original packaging back. For the current warranty conditions and the possibility of returning, please contact your dealer who will advise you how to proceed.



SPECIFICATIONS

Nominal Voltage: **36V**

Cell material: **Lithium (LiFePO4)***

Normal Capacity: **10 Ah**

Charging Voltage: **43,8V**

Charging Current: **2A**

Cover Material: **plastic**

Dimensions (L x W x H): **37 x 13 x 9 cm**

Battery Weight: **4,60 kg**

Carrier Weight: **0,90 kg**

*Main Advantage of the battery compared to Li-Pol is LiFePO4 composition. Life Li-pol battery is 400-800 cycles. LiFePO4 battery has a life of 2000 cycles and more. The battery is also possible to use in extreme temperatures from -15 °C to 60 °C without loss of performance.

BATTERY INSTALLATION



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- For battery holder assembly, you need 4 pcs of M8 screws including pads and nuts. Length of screws depends on your bike construction. These screws aren't part of package.
- Fasten the lower spacer rods to carrier (Fig. 3). Rods allow set carrier to the three different positions (Fig. 2). Select the optimal height to have carrier in horizontal position. (Bolts aren't included in basic package).
- Attach the rods to the bike frame using holes next to the chainrings cartridge (Fig. 4).



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- Use Curved rods (Fig. 3) to attach carrier to bike frame under the seat. Use the supplied screws and lock nuts (Fig. 5).
- Choose correct distance and fix the rods to carrier using provided screws (Fig. 6).
- When the carrier is attached to bike frame, attach the battery.

PUTTING INTO OPERATION

Default position of ignitor is UNLOCK. Turn the position to PUSH and push the key inside. There is a lock at the bottom of battery, which lock battery to the carrier. Then turn to OFF and right after to ON. Now the battery is locked to the carrier and system is powered (Fig. 7).



PROPER CHARGING

Lithium cells which contain EVBIKE batteries can be recharged at any level of charge or discharge - these batteries have no memory effect. We recommend always after the ride, to recharge the battery so you can immediately enjoy full power and a long driving range. After recharge always unplug the battery from the charger. Charge the battery only at room temperature (25 °C). **Charging at temperatures below freezing and vice versa charging the battery exposed to excessive sunlight is prohibited.**

Current state of charging is indicated by LED color lights on charger.

- RED – charging in progress.
- GREEN – charging finished (charger is now disconnected from battery).

The charging time is 3-6 hours depending on battery condition.

PROPER DISCHARGING

Recharge the battery to full capacity after the first disconnection of protective controller. Never try to reuse the battery after protective disconnection! Deep discharge of some cells and their unreparable damage may happen! Such battery usage may also cause unbalance of battery cells voltage and decrease their capacity. In extreme cases, the battery can not be recharged again. This kind of damage can be easily diagnosed and will result in avoiding your warranty.

BALANCE CHARGING

Inside the battery is an electronic battery protection - balance circuit (compensates the voltage of the cells to the same value). When using the battery cells voltage is always softly unbalanced and we recommend after about 8-10 charging cycles to leave the battery on the charger even after charging is completed. The battery is still charged by a small maintenance current flow and balance circuit equals the voltage of cells to the same level. Therefore double the charge time compared to standard time. Do not perform balance charging every time you recharging the battery. It may shorten service life of the battery cells. We recommend balance charging especially before first ride and always, if you suppose that the battery has not its standard power!

STORAGE

If you do not use the bike for more than 1 hour, always disconnect the battery using its power switch. If you do not use the bike for more than 24 hours, always remove the battery, recharge it and store in a safe dry place at room temperature. Beware of short-circuit the battery terminals (contacts) when storing and handling. For long-term storage, such as off-season, it is also necessary check battery every 14 days (using LEDs) and after 1 month recharge the battery to its full capacity. If you do not perform this maintenance deep discharge of the battery cells will occur. This irreparable battery damage is not covered by warranty.

WARNINGS FOR BATTERY USE - POSSIBLE DANGERS

- **Danger of shortcut and fire**

Charged or uncharged cells contains a high amount of electric power, it may cause a electric sparks when contacts are in shortcut. Batteries are not flammable, but fire may be created from sparks or high temperature connectors (temperature caused by shortcut).

- **Danger of injury caused by DC current**

When connecting more cells or batteries to serie, the danger of injury increases. Never touch the electric wires or other componnents that are powered.

- **Danger of chemical material**

Lithium cells and batteries does not contain any caustics or acids. Still materials that are affecting human body are inside. We recommend you to use following guidelines when manipulating with Lithium cells.

- a) Eye protection: use eyewear to prevent intrusion of any chemicals in eye.
- b) Skin protection: use protection clothing and gloves. Prevent contact of chemicals with your skin.
- c) Inhale protection: Manipulate with cells or batteries only in ventilated areas.

END USER INSTRUCTIONS

Batteries and cells can be used only by person, instructed to use Lithium batteries and cells. This instruction is done by last reseller. When the batteries are sold and shipped, instruction is done via enclosed manual, more details to be found at reseller website.

WARNINGS

- Protect against unqualified manipulation, protect against kids.
- Protect against water or other liquids.
- Use the batteries with control or constant management of Battery protection/control system.
- Protect the cells and batteries against overcharge and deep discharge.
- Don't brake battery case, don't manipulate with damaged batteries.

Battery and cell recycling – legal obligation informations

a) Of the manner of re-collection; for this purpose, the seller publishes actual list of affordable way to take back and separated collect. Including at least name of the place and address.

Place to take back and separated collection: i4wifi a.s., Průmyslová 11, Praha 10, 102 19

b) About possible negative effects of materials used in batteries or accumulators to environment and human health.

Batteries and cells contain chemical materials that have negative effect on environment and human health.

c) About meaning of graphical symbol for separated collection or take back and about meaning of markings



**THIS IS GRAPHICAL SYMBOL FOR SEPARATED COLLECT OR TAKE BACK.
DO NOT PUT BATTERIES TO MUNICIPAL WASTE BUT HANDLE THEM IN PLACE
FOR SEPARATED COLLECT OR TAKE BACK.**



Global World Logistic Ltd.,EU-VAT ID: CZ682998344, as legal entity authorized by manufacturer for EU, hereby declares, that the device is in compliance with basic requirements and further relevant provisions of directive LOW VOLTAGE DIRECTIVE 2006/95/EC which sets technical requirements for electric devices of low voltage. This declaration is issued on documents provided by Manufacturer.

