

ebikemotion®

POWER SUPPLY

USB Charger - Smartphone, Lights and others

Designed &
Manufactured
in Spain (EU)

Sometimes the power supply that we can get of the Display Port wire or the controller is not suitable for the iWoc® Remote Control other accessories or it is necessary to include any extra electronic to generate special signal for iWoc® RC, Head Lights, etc. This little and simple assembling add-on is installed between the iWoc® remote control and the display bus line for making this job for us.

Basically it supplies power to the joystick with 6V and can convert power from 6 to 55V. At the same time generates a USB port Type A with 5V- 1500mA to charge the smartphone, power supply extra lights, etc. When the iWoc® RC wakes up the bike it also wakes up. This is the perfect partner for iWoc® RC when it is installed alone.

Target Applications:

- Conversion of display Voltage 14-55V to 12v:
 - . Smart City e-bikes
 - . Smart e-MTB
 - . e-performance
- Smartphone Charger
- USB HeadLight Power connection
- Power Supply 5V- 1500 mA (USB Type-A)



- . Power regulator
- . Smartphone charger
- Power supply

ebikemotion® USB On-Wire can work in combination with iWoc® RC as optional system, built in the same iWoc® RC from factory or adapted to third control and ebike systems that need to add a USB Power Supply Port

If your company is involved in any smart e-bike based on Smartphone communication, you must take in mind that the Smartphone will consume the battery after 1.5 hours of work starting from 100% charged (ex. iPhone 6). Display On and in addition GPS and Bluetooth® connection started with many calculations at the same time will take exhaust the battery of your phone.

When USB charging point is compulsory, the secondary problem is the installation point in the e-bike. To solve this issue the USB On-Wire unit uses a "S-type" hook system that fits the unit and wires to the Brake or Shifting wires in the front of the handle bar creating a block, leaving the design of the frame without any add-on for the USB Port.



HEADQUARTERS 🏠

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RESEARCH CENTERS 🏠

BISITE R+D Group
(University of Salamanca)

GND (NAGARES)
(Valencia - Spain)

STAGEMOTION SL
(Palencia - Spain)

PRODUCTION CENTER 🏠

NAGARES S.A.
(Motilla del Palancar - Spain)

GRUPELEC (NAGARES)
(Valladolid - Spain)

EN 15194
DIN EN ISO 13849
According to Directive 2006/42/EG

Made with Automotive
Quality Standards

Nagares SA one of the most important Automotive Electronic Manufacturers of Spain and the R+D in GND (Valencia) is the responsible of the design, production and quality management of the ebikemotion® USB On-Wire



e-bike Power Supply

Product Features and Specifications

Advanced Assembling System Based in 2 sides with ultrasonic seal.

Control of maximum power supplied used for the Smartphone (with secure switch of system)

Between 1200 mA and 1500 mA (Depending of External Motor Controller PS output, that will supply directly to the display line.

Direct Wire Connection to iWoc® Remote Controller
Waterproof connection to the EBIKE controller wire (see connection recommendations)

Aerial USB Type A female with a waterproof cover (Charge and Update)

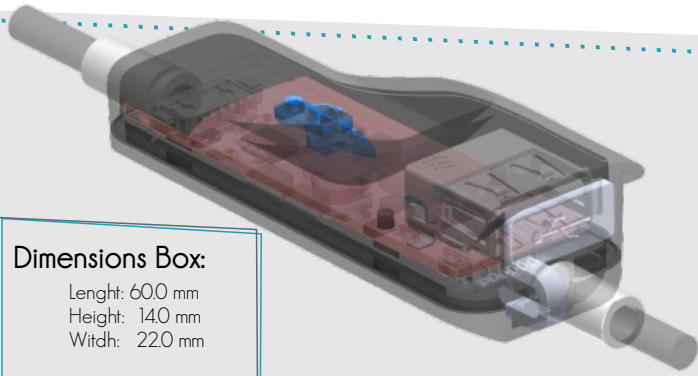
Operation: 6-55V (Recommended 1,2A)

Data & Power connection (Standard 6 Male Higo Connector)

Waterproof protection (IP67)

Ultraviolet surface protection

1 White LED Light to show status of module



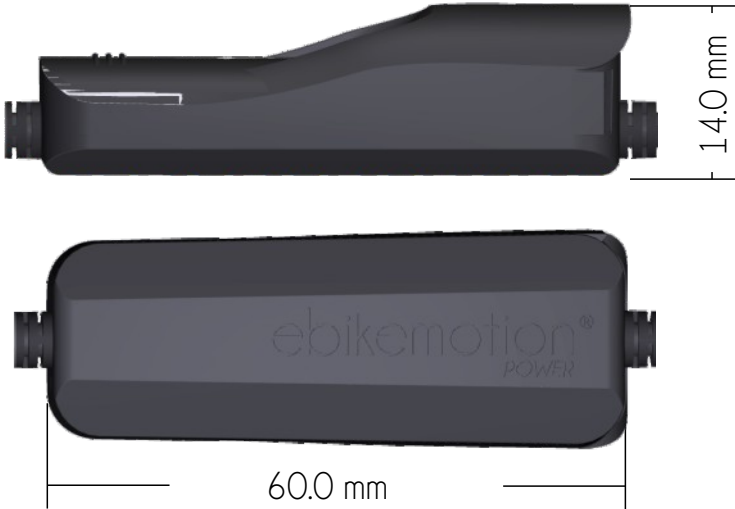
Dimensions Box:
Length: 60.0 mm
Height: 14.0 mm
Width: 22.0 mm

- Full compliant EN 15194 & DIN EN ISO 13849
- Special system for fixing to the Brake or Shifting wires close to the handlebar
- Special waterproof wired connector for all components
- Laser print in the bottom with special information (HW and SW version, SERIAL & PART Numbers)



USB On-Wire is designed to be integrated with iWoc® and ebikemotion® controller as well as single alone for other brands

Technical view



Side area is fully customizable

