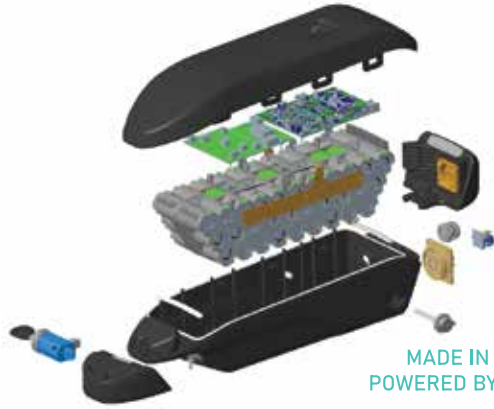


IONIA

It's about feeling the power

HIGH QUALITY E-BIKE BATTERY SOLUTION



MADE IN TÜRKİYE
POWERED BY VESTEL

TECHNOLOGY

Battery pack is designed and manufactured by **VESTEL Electronics**, one of the biggest manufacturing facility in Europe.

The pack is equipped with smart BMS board designed by VESTEL engineers. Engineering methods -FMEA- and simulation tools were used to ensure the design quality. VESTEL Electronics have fully automated module production with laser welding equipment, testing facility for the cells and modules, accredited in-house safety lab. to ensure the build quality and long term reliability of the pack.



IONIA PACK IS MADE OF HIGH QUALITY COMPONENTS

- ★ High quality 21700 NCA cells (similar to Tesla car)
- ★ IP67 grade, high mating cycle (up to 3000) magnetic connector.
- ★ 2 oz. PCB and automotive grade soldering material with conformal coating.
- ★ Non-flammable (UL94 5VA) and UV resistant (F1) raw materials.
- ★ High quality lock (with one key system option)
- ★ Industrial grade ventilation plug



CELLS

IONIA packs use the latest **21700 NCA/NMC cells** available in the market. These cells have **more capacity** and able to deliver significantly **higher currents** with less heat generation. It means **higher energy density** and **longer life time** for the pack.

Get more energy!



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BENEFITS

LASER WELDING

Laser welding of the cells can ensure low and homogenous resistance and high quality connection for performance and long term reliability

FAST CHARGING

5A inhouse design charger:
50% in 1 h
80% in 2 h
100% in less than 4 h

USB CHARGE (OPTIONAL)

Battery pack can charge mobile device with 1.6A current.

UART / CANBUS

Customized UART / CANBUS protocols supported for different drive systems. It is also easy to communicate with our service tool or smartphone app to obtain critical service data from the pack.

NEW 21700 CELL

New cells provide higher energy density and longer life. Compared to old 18650 cells, they can have more than 10% higher density.

EN 50604-1

Battery pack passed all the tests of the new safety standart including immersion and crush test.

BLUETOOTH

Battery pack can communicate with smartphone app for displaying the properties or service tool purposes.

MADE IN TÜRKİYE

Local production can provide advantages for easier project management, shorter lead time and logistics convenience.



Product Specifications

Nominal Voltage	36V
Capacity	540Wh
Cells	21700 5Ah NCA/NCM, Si+Gr
Charge Connector	6A, upto 3000 cycles
Discharge Connector	30A, upto 2500 cycles
Charger	2A, 4A or 5A charge current
Life cycle	1000 cycles (without significant loss of power)
Other Features	Bluetooth One key system (optional) UV proof components IP66 level water proof design IK08 impact resistance design IEC 62133-2, EN 50604-1, UN38.3 USB charge (optional)
Dimensions L x W x H	352 x 95 x 86 mm
Weight	2.8kg (battery only)
Color	Black

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

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POWERED BY VESTEL ■■■■

**VESTEL ELECTRONICS,
ONE OF THE BIGGEST MANUFACTURING
FACILITY IN EUROPE.**



VESTEL ELECTRONICS

Founded in 1984 and acquired by Zorlu Group in 1994, Vestel is today a global group of companies comprising a

total of 28 companies, of which 18 are located abroad. Vestel offers consumers a wide product range, which includes consumer electronics, major household appliances, digital and mobile products, small home appliances and LED lighting products in domestic and export market. Vestel has more than 16,000 employees and production capacity built on advanced technology. Established over a 1.3 million m2 area in Manisa, Vestel's manufacturing base Vestel City is one of the largest single-site industrial manufacturing complexes in Europe. Thanks to its manufacturing capabilities, quality production and strong R&D and innovation capacity, Vestel is a market driver not only in Turkey but also in global markets and is also Turkey's symbol and pride with its technology exports to the world.

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