

TOPBAND

TOPBAND 拓邦

Shenzhen Topband Co.,Ltd

Headquarter

+86 - 755-276 51888 Ext: 6700

www.topband.com.cn

ebike@topband.com.cn

Topband Industrial Park, Shiyan Town, Baoan District,
Shenzhen, China

Topband (Vietnam) Co.,Ltd

Topband Germany GmbH

Topband Romania SRL

Topband India Private Limited



STOCK CODE: 002139.SZ

Since 1996

TOPBAND

Topband was founded in Shenzhen, China in 1996 and became listed in 2007 (Stock Code: 002139). With over 20 years of development, Topband has a global supply and service capacity inclusive of 3 factories in China, 2 factories in Vietnam, 1 factory in India along with business / service centers all over the world. New factories in Timisoara, Romania and Monterrey, Mexico will be operational by the 4th quarter 2022.

Topband has always been the leader in PCBA (Printed Circuit Board Assembly) and BMS (Battery Management System) assembly and manufacturing for household appliances, power tools and ebikes. Based on this experience, we have developed our Li-ion battery pack and continue as a first-class e-mobility solution provider.

Topband has 7000+ employees including 1300 engineers, National CNAS laboratory, IPD management, global factories and business / service centers to ensure quality products, good lead times and professional service. We commit ourselves to be your reliable partner!

COMPANY PROFILE



THE ROAD IS YOURS !

FACTORY PLANNING



ROMANIA (2022)



MEXICO (2023)

Headquarters

Manufacturing

Bussiness Office

Factory Planning

Global R&D, Manufacturing and Service Provider

Topband has a strong team of R&D, manufacturing, quality control and sales service expertise and operates globally.



Headquarters ShenZhen

Manufacturing ShenZhen / ChongQing / NingBo / HuiZhou
HangZhou / India / Vietnam(Bing Duong)
Vietnam(Dong Nai)

Business Office USA / Germany / Israel / QingDao
ShangHai / SuZhou

Factories



SHENZHEN

floor area : 35000 m² | building area : 75000 m²



HUIZHOU

floor area : 75000 m² | building area : 190000 m²



CHONGQING

floor area : 16000 m² | building area : 57000 m²



HANGZHOU

floor area : 1750 m² | building area : 7050 m²



NINGBO

floor area : 35000 m² | building area : 124000 m²



INDIA

floor area : 16000 m² | building area : 57000 m²

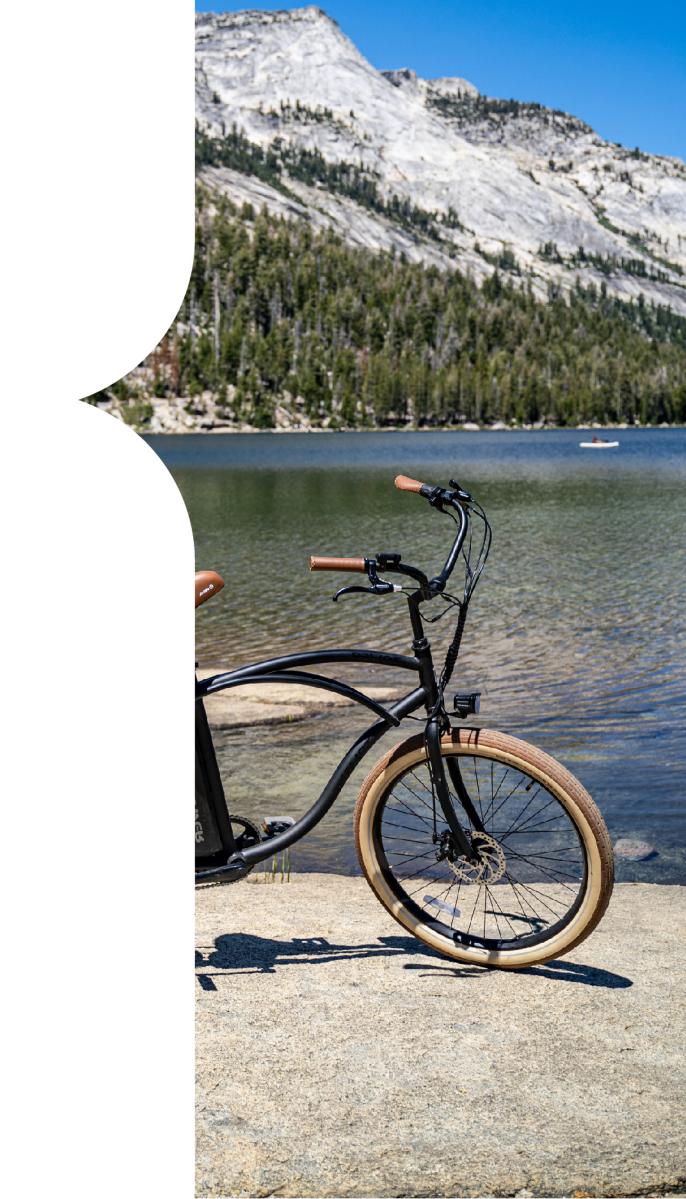


VIETNAM/BINH DUONG

VIETNAM/DONG NAI

floor area : 10000 m² | building area : 7000 m²

floor area : 60000 m² | building area : 116000 m²





High Precision Manufacturing Equipment

Employee

7000+

R&D Personnel

1300+

Research Input

7.8%

of revenue reinvested in R&D

Patent

2000+

Topband has got CNAS laboratory certification and has passed

- TS16949
- ISO9001
- ISO14001
- OHSAS18001

We have utilized 6 SIGMA, FMEA and other international advanced management philosophy to promote our management. Topband has already been provided with RoHS compliance detectability and complete RoHS guarantee capability.



2012
Witness test certification



2014
International lab certification



2016
Witness test certification



2017
Witness test certification

Battery



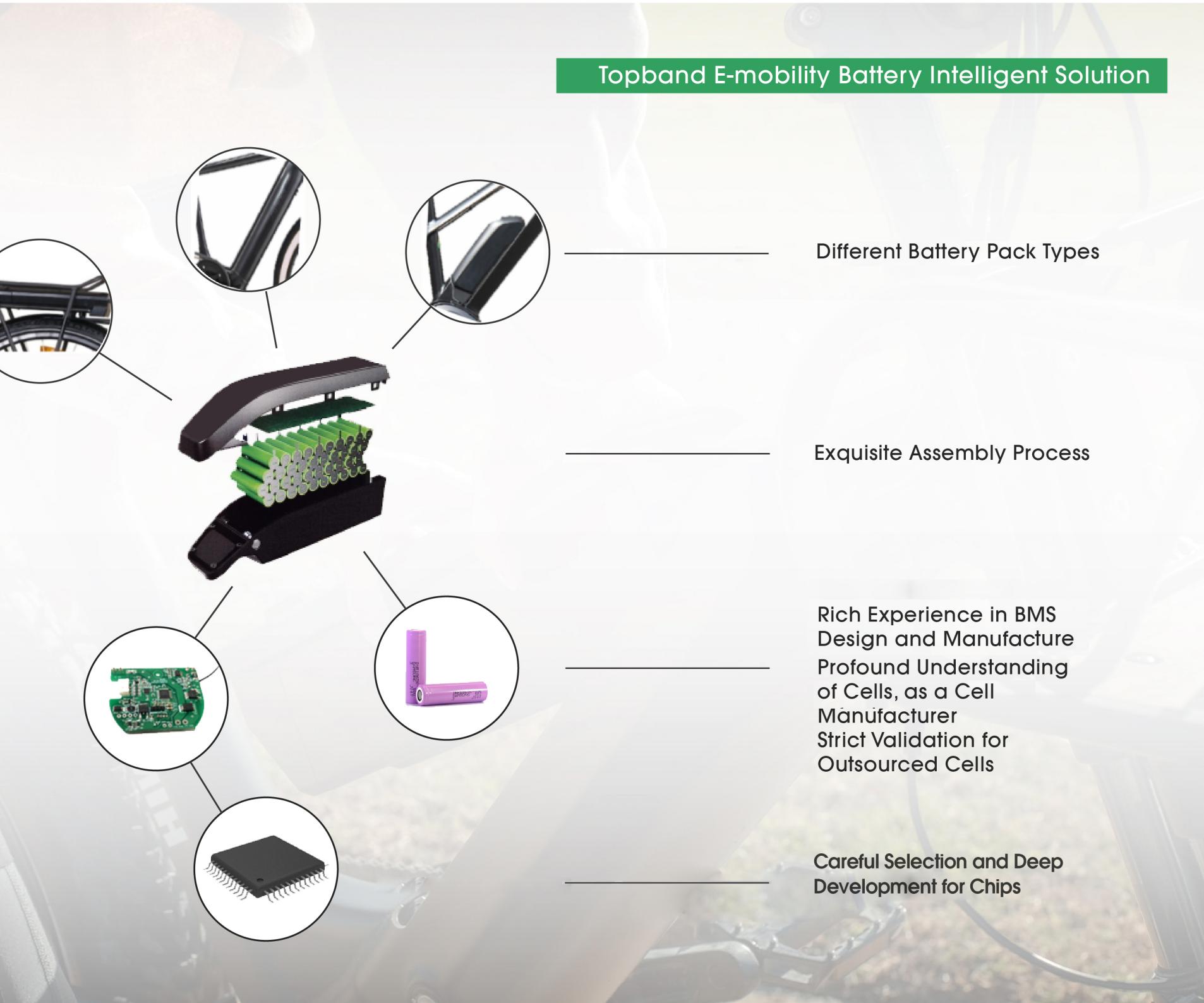
BMS

- To comply with EN15194:2017, ISO13849 Category 3 structure is chosen.
- SOC estimation accuracy is further improved.
- Safer with higher redundancy and robust design.
- Monitor the battery status continuously with extremely low consumption.
- Smart charging system enables low temperature charging and automatic electricity retention.
- Smart BMS with self-diagnosis function and highly compact tool to upgrade firmware.

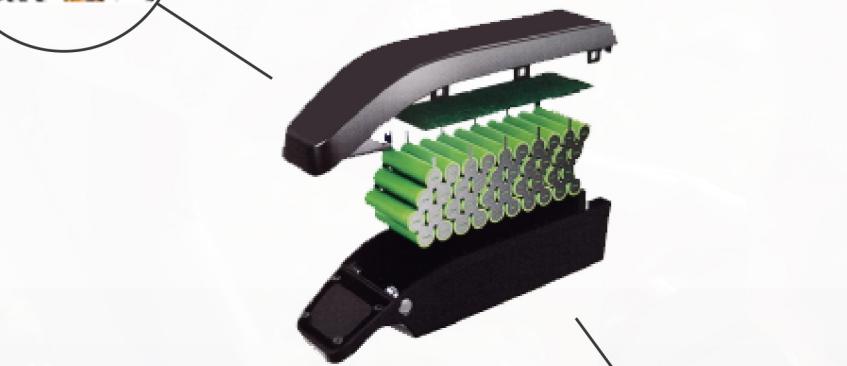


Pack

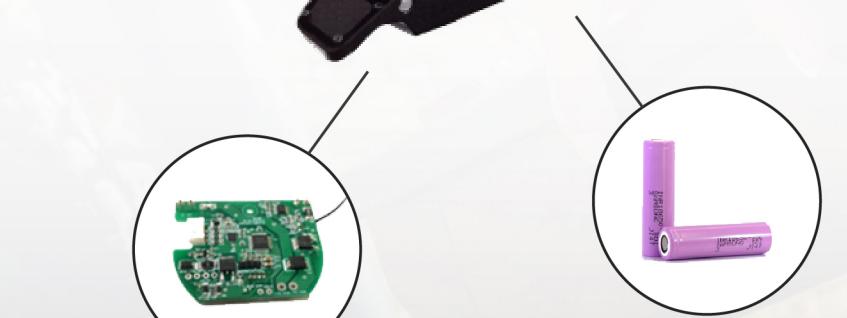
- Compatible for various drive systems and frames, optional for different cells.
- Highly identical waterproof design (\geq IPX5) and structural vibration protection.
- Optimal performance on discharging efficiency, cycling durability.
- Professional assembly techniques in both China and Vietnam.



Different Battery Pack Types



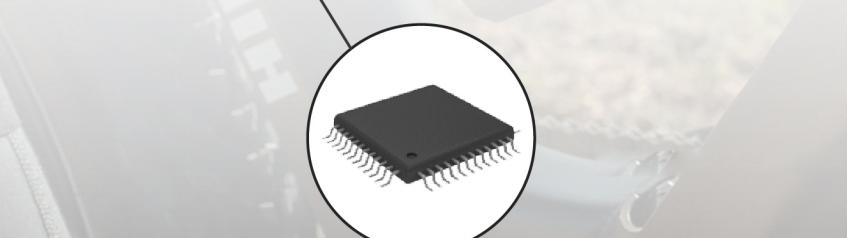
Exquisite Assembly Process



Rich Experience in BMS Design and Manufacture

Profound Understanding of Cells, as a Cell Manufacturer

Strict Validation for Outsourced Cells



Careful Selection and Deep Development for Chips



EN15194:2017

**Model Name****IH1**

Type	Frame Integrated	
Pack Construction	70 (10S7P) (18650 Cells)	65 (13S5P) (18650 Cells)
Rated Voltage	36V	48V
Rated Capacity	10.5Ah /14Ah /17.5Ah /24.5Ah	8.8Ah /10.4Ah /11.6Ah /14Ah /17.5Ah
Energy Content Approx	378Wh /504Wh /630Wh /882Wh	422.4Wh /499.2Wh /556.8Wh /672Wh /840Wh
Pack Construction	40 (10S4P) (21700 Cells)	39 (13S3P) (21700 Cells)
Rated Voltage	36V	48V
Rated Capacity	20Ah (5.0Ah cell)	15Ah (5.0Ah cell)
Energy Content Approx	720Wh	720Wh
BMS	Smart / Standard	
Communication Protocol	CAN / 485 / UART / LIN	
Certification	EN 15194:2017 / UN38.3 / ISO13849 / CE / ROHS	
Dimension(L*W*H)(w/o docking)	375mm × 75mm × 90mm	
Weight (w/o docking)	< 3.5kg	
Water Proof	> IP65	



EN15194:2017

**Model Name****DK2**

Type	Down Tube	
Pack Construction	50 (10S5P) (18650 Cells)	52 (13S4P) (18650 Cells)
Rated Voltage	36V	48V
Rated Capacity	17.5Ah (MAX)	14Ah (MAX)
Energy Content Approx	630Wh	672Wh
BMS	Smart / Standard	
Communication Protocol	CAN / 485 / UART / LIN	
Certification	EN 15194:2017 / UN38.3 / ISO13849 / CE / ROHS	
Dimension(L*W*H)(w/o docking)	455mm × 98mm × 90mm	
Weight (w/o docking)	< 5.0kg	
Water Proof	> IP65	



EN15194:2017

**Model Name****RT1**

Type	Rear Carrier	
Pack Construction	50 (10S5P) (18650 Cells)	39 (13S3P) (18650 Cells)
Rated Voltage	36V	48V
Rated Capacity	13Ah /14.5Ah /17.5Ah	7.8Ah /8.7Ah /10.5Ah
Energy Content Approx	468Wh /522Ah /630Wh	374.4Ah /417.6Wh /504Wh
Pack Construction	40 (10S4P) (21700 Cells)	39 (13S3P) (21700 Cells)
Rated Voltage	36V	48V
Rated Capacity	16Ah /20Ah	12Ah /15Ah
Energy Content Approx	576Wh /720Wh	576Wh /720Wh
BMS	Smart / Standard	
Communication Protocol	CAN / 485 / UART / LIN	
Certification	EN 15194:2017 / UN38.3 / ISO13849 / CE / ROHS	
Dimension(L*W*H)(w/o docking)	400mm × 125mm × 80mm	
Weight (w/o docking)	< 3.5kg	
Water Proof	> IP65	



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**Model Name****IT1**

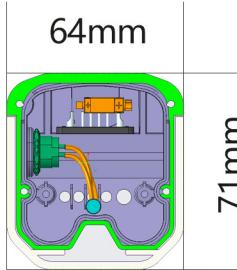
Type	Frame Integrated
Pack Construction	20(2P10S) (21700 Cells)
Rated Voltage	36V
Rated Capacity	10Ah
Energy Content Approx	360Wh
BMS	Smart / Standard
Communication Protocol	CAN / 485 / UART / LIN
Certification	EN 15194:2017 / UN38.3 / ISO13849 / CE / ROHS
Dimension(L*W*H)(w/o docking)	450mm × 58mm × 56mm
Weight (w/o docking)	< 2.0kg
Water Proof	> IP65



EN15194:2017



EN15194:2017



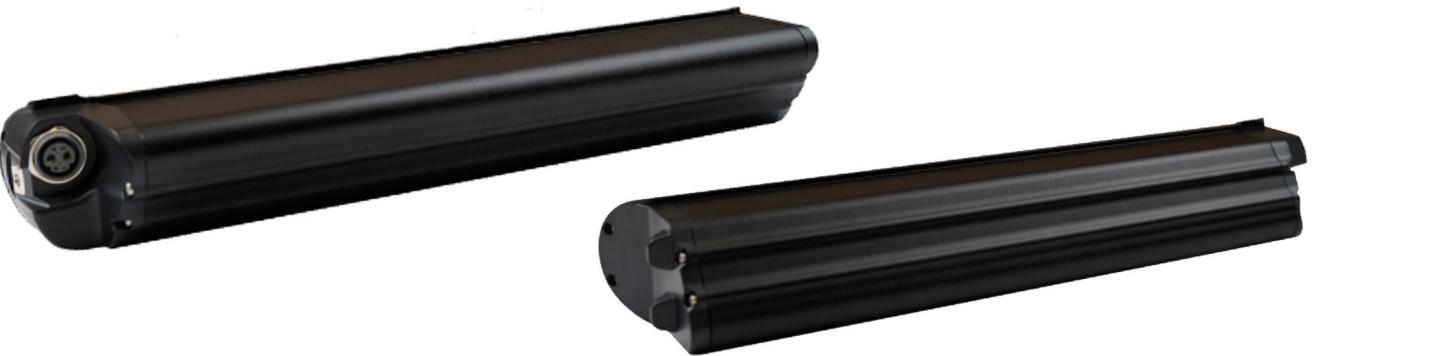
Model Name	IT2
Type	Fully Integrated
Pack Construction	40 (18650 Cells)
Rated Voltage	36V
Rated Capacity	14Ah
Energy Content Approx	504Wh
BMS	Smart / Standard
Communication Protocol	CAN / 485 / UART / LIN
Certification	EN 15194:2017 / UN38.3 / ISO13849 / CE / ROHS
Dimension (L*W*H)(w/o docking)	410mm x 71mm x 64mm
Weight (w/o docking)	< 3.8kg
Water Proof	> IP65

Model Name**IT3**

Type	Frame Integrated	
Pack Construction	50 (10S5P) (18650 Cells)	39 (13S3P) (18650 Cells)
Rated Voltage	36V	48V
Rated Capacity	13Ah /14.5Ah /17.5Ah	7.8Ah /8.7Ah /10.5Ah
Energy Content Approx	468Wh /522Ah /630Wh	374.4Ah /417.6Wh /504Wh
Pack Construction	40 (10S4P) (21700 Cells)	39 (13S3P) (21700 Cells)
Rated Voltage	36V	48V
Rated Capacity	16Ah /20Ah	12Ah /15Ah
Energy Content Approx	576Wh /720Wh	576Wh /720Wh
BMS	Smart / Standard	
Communication Protocol	CAN / 485 / UART / LIN	
Certification	EN 15194:2017 / UN38.3 / ISO13849 / CE / ROHS	
Dimension(L*W*H)(w/o docking)	423mm × 77mm × 88mm	
Water Proof	> IP65	



EN15194:2017

**Model Name****IR1**

Type	Frame Integrated	
Pack Construction	50 (10S5P) (18650 Cells)	52 (13S4P) (18650 Cells)
Rated Voltage	36V	48V
Rated Capacity	10.5Ah /14Ah /17.5Ah	10.5Ah /14Ah
Energy Content Approx	378Wh /504Wh /630Wh	504Wh /672Wh
BMS	Smart / Standard	
Communication Protocol	CAN / 485 / UART / LIN	
Certification	EN 15194:2017 / UN38.3 / ISO13849 / CE / ROHS	
Dimension(L*W*H)(w/o docking)	430mm × 64mm × 94mm	
Weight (w/o docking)	< 3.8kg	
Water Proof	> IP65	

Model Name**ID**

Type	Seat Tube
Pack Construction	50 (18650 Cells)
Rated Voltage	36V
Rated Capacity	17.5Ah (MAX)
Energy Content Approx	630Wh (MAX)
BMS	Smart / Standard
Communication Protocol	CAN / 485 / UART / LIN
Certification	EN 15194:2017 / UN38.3 / ISO13849 / CE / ROHS
Dimension(L*W*H)(w/o docking)	420mm × 92mm × 82mm
Weight (w/o docking)	< 3.5kg
Water Proof	> IP65



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Model Name **TBS2**

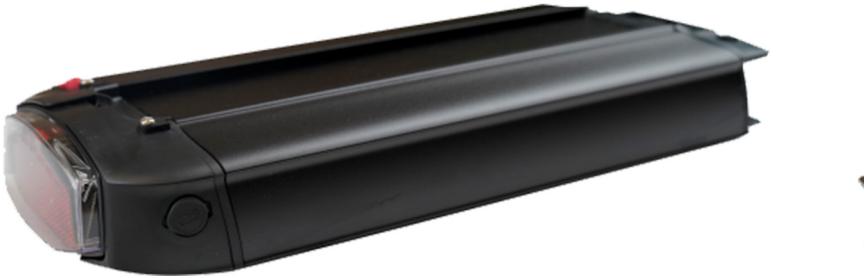
Type	Rear Carrier
Pack Construction	50 (18650 Cells)
Rated Voltage	36V
Rated Capacity	8.8Ah /10.4Ah /11.6Ah /14Ah /17.5Ah
Energy Content Approx	317Wh /374Wh /418Wh /504Wh /630Wh
BMS	Smart / Standard
Communication Protocol	CAN / 485 / UART / LIN
Certification	EN 15194:2017 / UN38.3 / ISO13849 / CE / ROHS
Dimension(L*W*H)(w/o docking)	444mm ×150mm ×75mm
Weight (w/o docking)	< 3.5kg
Water Proof	> IP65

Model Name **IA**

Type	Frame Integrated
Pack Construction	30 (18650 Cells)
Rated Voltage	36V
Rated Capacity	7.8Ah /8.7Ah /10.5Ah
Energy Content Approx	280.8Wh /313.2Wh /378Wh
BMS	Smart / Standard
Communication Protocol	CAN / 485 / UART / LIN
Certification	EN 15194:2017 / UN38.3 / ISO13849 / CE / ROHS
Dimension(L*W*H)(w/o docking)	376mm × 42mm × 85mm
Weight (w/o docking)	< 3.5kg
Water Proof	> IP65



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**Model Name****RC**

Type	Rear Carrier
Pack Construction	50 (18650 Cells)
Rated Voltage	36V
Rated Capacity	11Ah /13Ah /14.5Ah /17.5Ah
Energy Content Approx	396Wh /468Wh /522Wh /630Wh
BMS	Smart / Standard
Communication Protocol	CAN / 485 / UART / LIN
Certification	EN 15194:2017 / UN38.3 / ISO13849 / CE / ROHS
Dimension(L*W*H)(w/o docking)	446mm × 156mm × 64mm
Weight (w/o docking)	< 3.8kg
Water Proof	> IP65

Model Name**DS1**

Type	Down Tube	
Pack Construction	50 (10S5P) (18650 Cells)	52 (13S4P) (18650 Cells)
Rated Voltage	36V	48V
Rated Capacity	14Ah /17.5Ah	10.5Ah /14Ah
Energy Content Approx	504Wh /630Wh	504Wh /672Wh
BMS	Smart / Standard	
Communication Protocol	CAN / 485 / UART / LIN	
Certification	EN 15194:2017 / UN38.3 / ISO13849 / CE / ROHS	
Dimension (L*W*H)(w/o docking)	368mm × 90mm × 93 mm	
Weight (w/o docking)	< 3.8kg	
Water Proof	> IP65	



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**Model Name****IY1**

Type	Frame Integrated	
Pack Construction	70 (10S5P) (18650 Cells)	65 (13S5P) (18650 Cells)
Rated Voltage	36V	48V
Rated Capacity	18.2Ah /20.3Ah /24.5Ah	13Ah /14.5Ah /17.5Ah
Energy Content Approx	655.2Wh /730.8Ah /882Wh	624Ah /696Wh /840Wh
Pack Construction	40 (10S4P) (21700 Cells)	39 (13S3P) (21700 Cells)
Rated Voltage	36V	48V
Rated Capacity	16Ah /20Ah	12Ah /15Ah
Energy Content Approx	576Wh /720Wh	576Wh /720Wh
BMS	Smart / Standard	
Communication Protocol	CAN / 485 / UART / LIN	
Certification	EN 15194:2017 / UN38.3 / ISO13849 / CE / ROHS	
Dimension(L*W*H)(w/o docking)	433mm × 78mm × 93mm	
Weight (w/o docking)	< 5.0kg	
Water Proof	> IP65	



EN15194:2017

**Model Name****IR3**

Type	Frame Integrated	
Pack Construction	40 (18650 Cells)	
Rated Voltage	36V	48V
Rated Capacity	14Ah	10.5Ah
BMS	Smart / Standard	
Communication Protocol	CAN / 485 / UART / LIN	
Certification	EN 15194:2017 / UN38.3 / ISO13849 / CE / ROHS	
Dimension(L*W*H)(w/o docking)	430mm × 64mm × 74mm	
Water Proof	>IP65	



EN15194:2017



EN15194:2017



Model Name		DG1
Type		Frame Integrated
Pack Construction		40 (18650 Cells)
Rated Voltage	36V	48V
Rated Capacity	14Ah	10.5Ah
BMS	Smart / Standard	
Communication Protocol	CAN / 485 / UART / LIN	
Certification	EN 15194:2017 / UN38.3 / ISO13849 / CE / ROHS	
Dimension(L*W*H)(w/o docking)	370mm × 88mm × 65mm	
Water Proof	> IP65	

Model Name		DA
Type		Down Tube
Pack Construction		50 (18650 Cells)
Rated Voltage	36V	
Rated Capacity	17.5Ah	
BMS	Smart / Standard	
Communication Protocol	CAN / 485 / UART / LIN	
Certification	EN 15194:2017 / UN38.3 / ISO13849 / CE / ROHS	
Dimension(L*W*H)(w/o docking)	368mm × 90mm × 90mm	
Water Proof	> IP65	



EN15194:2017



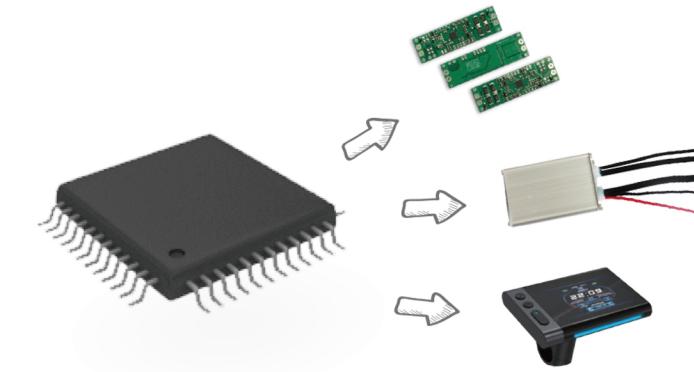
Model Name	IC
Type	Frame Integrated
Pack Construction	40 (18650 Cells)
Rated Voltage	36V
Rated Capacity	8.8Ah /10.4Ah /11.6Ah /14Ah
Energy Content Approx	317Wh /374Wh /418Wh /504Wh
BMS	Smart / Standard
Communication Protocol	CAN / 485 / UART / LIN
Certification	EN 15194:2017 / UN38.3 / ISO13849 / CE / ROHS
Dimension(L*W*H)(w/o docking)	458mm × 65mm × 85mm
Weight (w/o docking)	< 3.5kg
Water Proof	> IP65



EN15194:2017



Sufficient materials to ensure continuous battery supply!



Cells strategic cooperation with cell supply from LG, Eve.

Chips high priority on the chip supply and huge inventory in stock.

Accessories

BMS (=Battery Management System) for sale:

"Eagle" BMS: excellent performance

EN15194:2017(ISO13849) certificated by TUV

"Bluebird" BMS: cost-effective

EN15194:2017(ISO13849) certificated by TUV

"Thunderbird" BMS: price-competitive

EN15194:2017(ISO13849) certificated by SGS

Features:

R&D and manufacturing experience on BMS for 25years

Three versions for options

Proven by our own batteries



Charger

36V2A/4A smart charger

48V2A/4A smart charger

36V5A (6A) / 48V5A (6A) charger for customization



Features :

R&D and manufacturing experience on charger for 20 years

Pre discharging function and good performance during low temperature charging

Customization service is available

Diagnostic Tool

Simple and easy handling

Diagnoses battery problem

Help acquires battery information



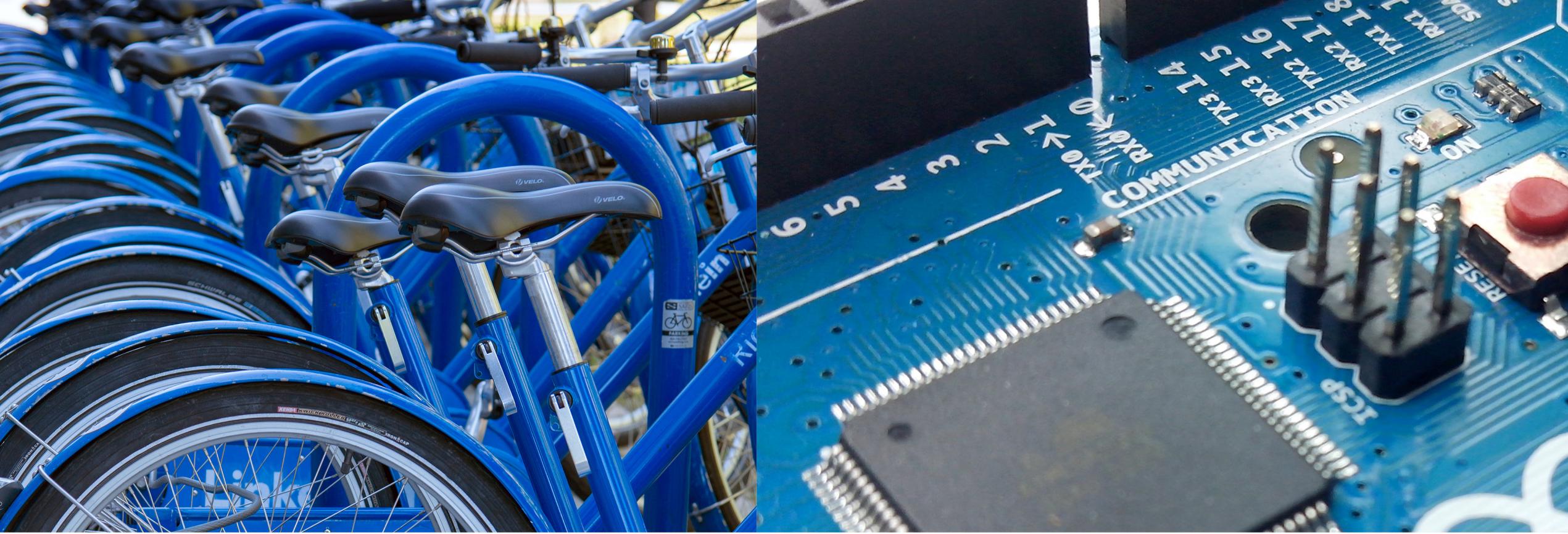
Other Services

01 Dual/Multiple Battery Solution



Mature solution for Dual battery to increase the riding distance.

Dual battery is the excellent solution for tour riders, long-distance commuters, cargo bike users and eMTB riders.



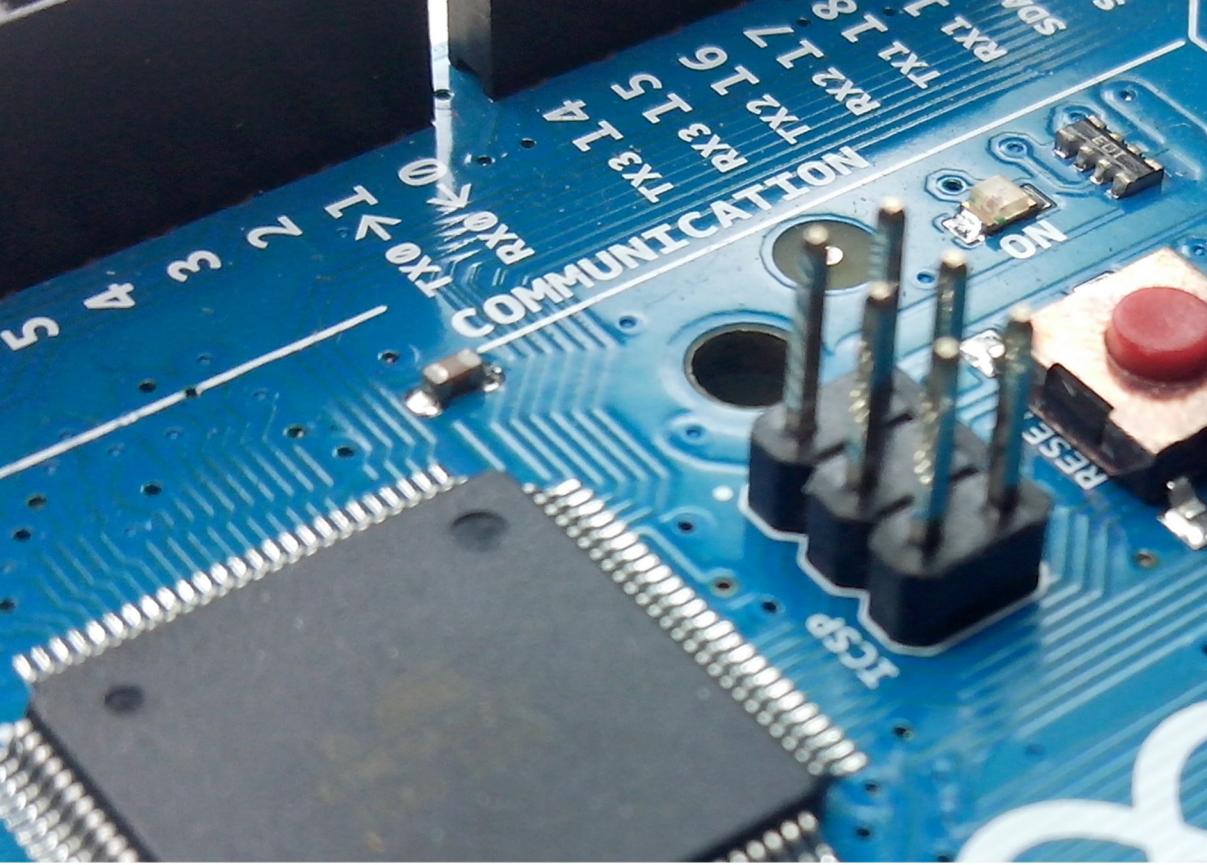
02 Sharing Bike Solution



IP65 water-proof



IOT connection



03 Customized Battery Pack Available