



EN15194

IEC62133



REACH

TOPBAND

CO-INNOVATING A SMARTER FUTURE

TOPBAND

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LI-ION BATTERY
FOR E-MOBILITY

Stock Code: 002139.SZ

COMPANY PROFILE

Topband was founded in Shenzhen, China in 1996 and became listed in 2007 (Stock Code:002139). With over 20 years of development, Topband has global supply and service capacity, including 3 factories in China, 2 factories in Vietnam, 1 factory in India and business/service centers all over the world. Besides, Topband Europe factory will be ready in Județul Cluj, Romania at the end of 2021.

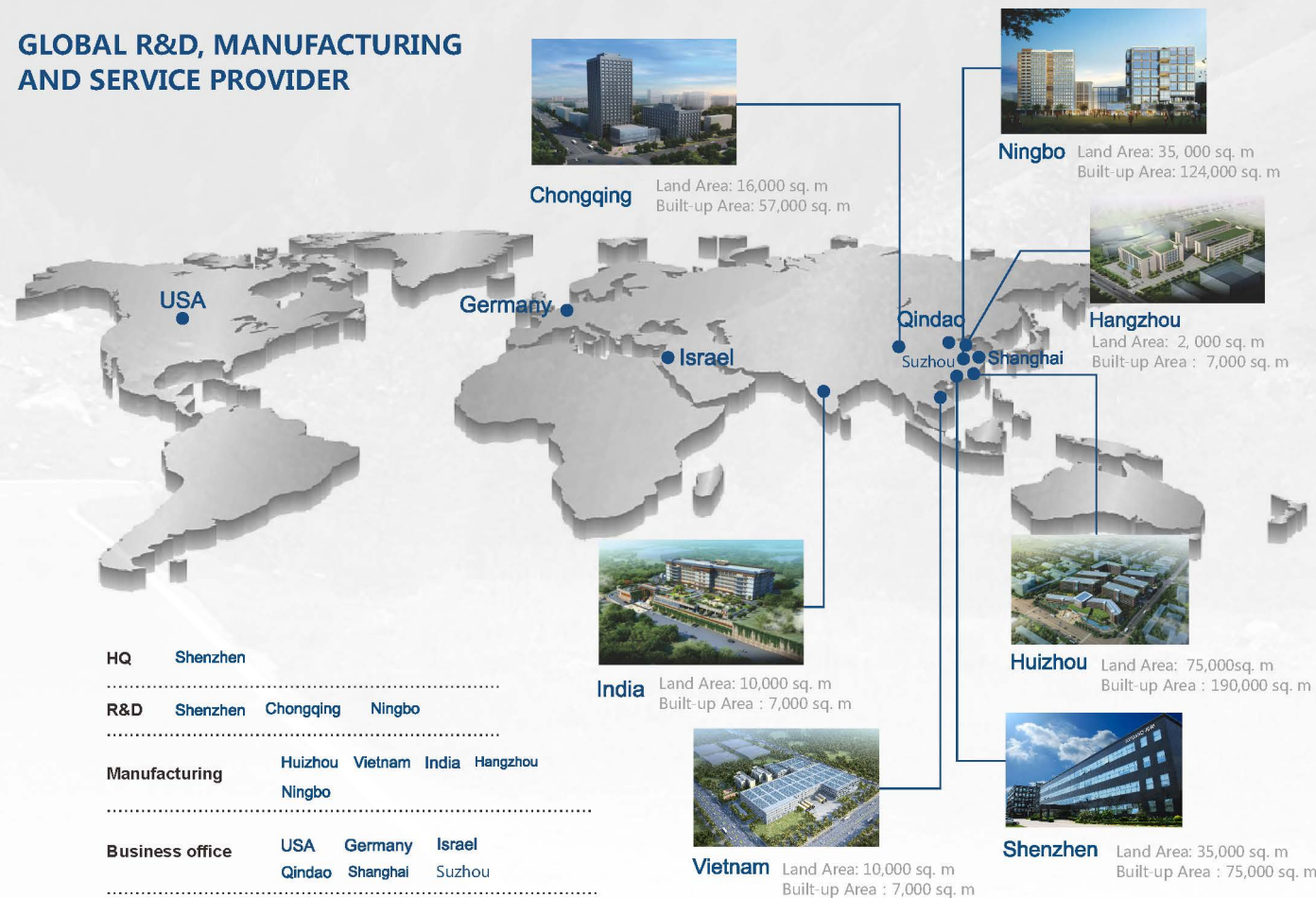
Topband has always been the leader in PCBA/BMS (=battery management system) for household appliances, power tools and e-bikes. Based on this experience, we develop our Li-ion battery pack and aim to become a first-class e-mobility solution provider!

Topband has 6000 employees, including 1000 engineers, National CNAS laboratory, IPD management, global factories and business/service centers to ensure perfect products, good lead time and professional service. We commit ourselves to be your reliable partner!



TOP BAND TOP BATTERY

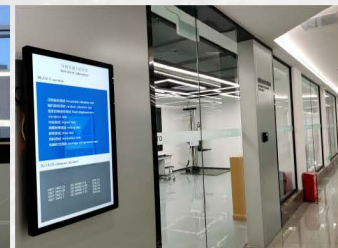
GLOBAL R&D, MANUFACTURING AND SERVICE PROVIDER



HQ	Shenzhen
R&D	Shenzhen Chongqing Ningbo
Manufacturing	Huizhou Vietnam India Hangzhou Ningbo
Business office	USA Germany Israel Qindao Shanghai Suzhou



High Precision Manufacturing Equipment



2012
Witness test certification



2014
International lab certification



2016
Witness test certification



2017
Witness test certification

Topband E-mobility Battery Intelligent Solution

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





Model Name	IH1	
Type	Frame Integrated	
Pack Construction (18650 cells)	70 (10S7P)	65 (13S5P)
Rated Voltage	36V	48V
Rated Capacity	11Ah/13Ah/14.5Ah/17.5Ah/24.5Ah	8.8Ah/10.4Ah/11.6Ah/14Ah/17Ah
Energy Content Approx.	396 Wh/468 Wh/522 Wh/630 Wh/882Wh	422.4 Wh/499.2 Wh/556.8 Wh/672Wh/884Wh
Pack Construction (21700 cells)	40 (10S4P)	39 (13S3P)
Rated Voltage	36V	48V
Rated Capacity	20Ah (5.0Ah cell)	15Ah (5.0Ah cell)
Energy Content Approx.	720 Wh	720 Wh
BMS	Smart	
Communication Protocol	CAN/485/UART/LIN	
Certification	EN15194:2017/ISO13849/CE	
Dimension(L*W*H)(w/o docking)	375mm × 75mm × 90 mm	
Weight (w/o docking)	<3.5kg	

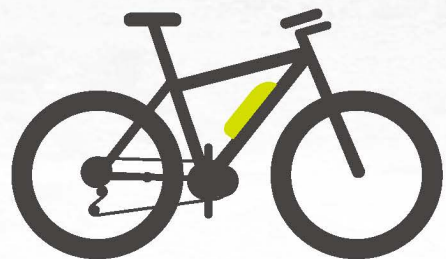


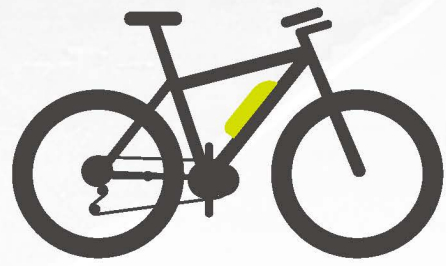
DK1-1



DK1-2

Model Name	DK1	
Type	Down Tube	
Pack Construction (18650 cells)	60(18650 Cells)	
Rated Voltage	36V	48V
Rated Capacity	21Ah (MAX)	14Ah (MAX)
Energy Content Approx.	756 Wh	672 Wh
BMS	Smart	
Communication Protocol	CAN/485/UART/LIN	
Certification	EN15194:2017/ISO13849/CE	
Dimension(L*W*H)(w/o docking)	469mm x 93.9mm x 90mm	
Weight (w/o docking)	<5kg	





Model Name	DS1
Type	Down Tube
Pack Construction	50Cells(18650)
Rated Voltage	36V
Rated Capacity	13Ah
Energy Content Approx.	468 Wh
BMS	Smart/Standard
Communication Protocol	CAN/485/UART/LIN
Certification	EN15194:2017/ISO13849/CE
Dimension(L*W*H)(w/o docking)	367.5mm × 90.3mm × 92.8 mm
Weight (w/o docking)	<3.8kg

Model Name	IT1
Type	Frame Integrated
Pack Construction (21700)	20(2P10S)
Rated Voltage	36V
Rated Capacity	10Ah
Energy Content Approx.	360Wh
BMS	SMART
Communication Protocol	CAN/485/UART/LIN
Certification	EN15194:2017/ISO13849/CE
Dimension(L*W*H)(w/o docking)	450*58*56
Weight (w/o docking)	< 2KG



Model Name	IT2
Type	Fully integrated
Pack Construction	50 cells(18650)
Rated Voltage	36V
Rated Capacity	17.5Ah
Energy Content Approx.	630Wh
BMS	Smart/Standard
Communication Protocol	CAN/485/UART/LIN
Certification	EN15194:2017/ISO13849/CE
Dimension(L*W*H)(w/o docking)	560.46mm x 73mm x 64mm
Weight (w/o docking)	< 3.8Kg

Model Name	RL1	
Type	Rear Carrier	
Pack Construction (Cells(18650))	30/40/50	39/52
Rated Voltage	36V	48V
Rated Capacity	10.5Ah/14Ah/17.5Ah	10.5Ah/14Ah
Energy Content Approx.	378/504/630 Wh	504/672 Wh
BMS	Smart/Standard	
Communication Protocol	CAN/485/UART/LIN	
Certification	EN15194:2017/ISO13849/CE	
Dimension(L*W*H)(w/o docking)	420mm×160mm×67 mm	
Weight (w/o docking)	<3.8kg	





Model Name	IR1	
Type	Frame Integrated	
Pack Construction (Cells(18650))	30/40/50	39/52
Rated Voltage	36V	48V
Rated Capacity	10.5Ah/14Ah/17.5Ah	10.5Ah/14Ah
Energy Content Approx.	378/504/630 Wh	504/672 Wh
BMS	Smart	
Communication Protocol	CAN/485/UART/LIN	
Certification	EN15194:2017/ISO13849/CE	
Dimension(L*W*H)(w/o docking)	430mm × 64mm × 94 mm	
Weight (w/o docking)	<3.8kg	



Model Name	IY1	
Type	Frame Integrated	
Max Cells	70(18650 Cells) / 40(21700 Cells)	
Rated Voltage	36V	48V
Rated Capacity	14.5Ah/17.5Ah/20Ah/21Ah/24.5Ah	11.6Ah/14.5Ah/15Ah/17.5Ah
Energy Content Approx.	522/630/720/756/882 Wh	556.8/696/720/840 Wh
BMS	Smart	
Communication Protocol	CAN/485/UART/LIN	
Certification	EN15194:2017/ISO13849/CE	
Dimension(L*W*H)(w/o docking)	433mm×78mm×93 mm	
Weight (w/o docking)	<5kg	





Model Name	TBS2
Type	Rear Carrier
Pack Construction	50Cells(18650)
Rated Voltage	36V
Rated Capacity	8.8 Ah/10.4 Ah/11.6 Ah/14Ah
Energy Content Approx.	317 Wh / 374 Wh /418Wh / 504 Wh
BMS	Smart/Standard
Communication Protocol	CAN/485/UART/LIN
Certification	EN15194:2017/ISO13849/CE
Dimension(L*W*H)(w/o docking)	444.3mm×150mm×74.6 mm
Weight (w/o docking)	<3.5kg



Model Name	ID
Type	Seat Tube
Pack Construction	50Cells(18650)
Rated Voltage	36V
Rated Capacity	13Ah
Energy Content Approx.	468 Wh
BMS	Smart/Standard
Communication Protocol	CAN/485/UART/LIN
Certification	EN15194:2017/ISO13849/CE
Dimension(L*W*H)(w/o docking)	420.1mm×92.2mm×82.3mm
Weight (w/o docking)	<3.5kg





Model Name	RC
Type	Rear Carrier
Pack Construction	50Cells(18650)
Rated Voltage	36V
Rated Capacity	11 Ah / 13 Ah / 14.5 Ah / 17.5 Ah
Energy Content Approx.	396 Wh/ 468 Wh/ 522 Wh / 630 Wh
BMS	Smart/Standard
Communication Protocol	CAN/485/UART/LIN
Certification	EN15194:2017/ISO13849/CE
Dimension(L*W*H)(w/o docking)	446mm×156mm×64 mm
Weight (w/o docking)	<3.8kg



Model Name	IA
Type	Frame Integrated
Pack Construction	30Cells(18650)
Rated Voltage	36V
Rated Capacity	7.8Ah/8.7Ah/10.5Ah
Energy Content Approx.	280.8Ah/313.2Wh/378Wh
BMS	Smart/Standard
Certification	EN15194:2017/ISO13849/CE
Dimension(L*W*H)(w/o docking)	376mm×42mm×85mm
Weight (w/o docking)	<3.5kg





Model Name	IC
Type	Frame Integrated
Pack Construction	40Cells(18650)
Rated Voltage	36V
Rated Capacity	8.8 Ah /10.4 Ah /11.6 Ah /14 Ah
Energy Content Approx.	317 Wh / 374 Wh / 418 Wh / 504 Wh
BMS	Smart/Standard
Communication Protocol	CAN/485/UART/LIN
Certification	EN15194:2017/ISO13849/CE
Dimension(L*W*H)(w/o docking)	458mm×65mm×85mm
Weight (w/o docking)	<3.5kg



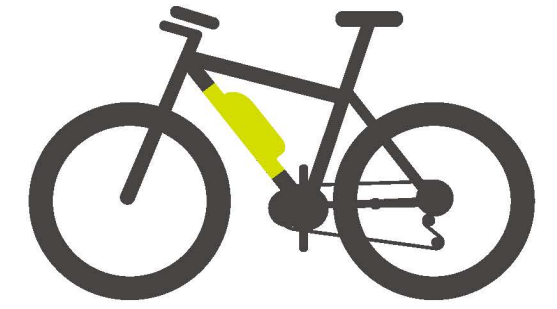
• Dual/Multiple Battery Solution

Mature solution for Dual battery to increase the riding distance

• Sharing Bike Solution

IPX7 water-proof
IoT connection

• Customized Battery Pack Available



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.

