



Website:

<http://www.hcctop.com>
<https://www.tuopw.com>
<https://hcctop.en.made-in-china.com>

Address:

1001, Unit 1, Building 2, Fangge Fenghuang Science and Technology Building, Guangshen Road NO. 218, Fenghuang Community, Fuyong Street, Bao 'an District, Shenzhen City

Tel:

+86-755-81461866



Official accounts



Made in China



Company website

Topway New Energy Co., Ltd. 拓普威新能源有限公司

OEM/ODM Battery Pack

Professional Lithium Battery Pack Factory

Endlessly Pursuing Of High Quality And Wholehearted Service For Customers

Company History

Obtained the best partner certificate in Chinese power supply industry. Obtain High-tech Enterprise Certification. Obtain Shenzhen Specialized, Refined, Special and New Small and Medium Enterprises Certificate. Established battery production base in Dongguan.



Obtained UL certification; And other certificates for products available too, such as ROHS, CE, CB, PSE, UN38.3, XIC, FCC... etc

Obtained the best partner certificate in Chinese power supply industry; Obtain High-tech Enterprise Certification; Established battery production base in Dongguan

ISO9001:2000
Quality System
Certification
completed



2003

2005

2008

2011

2013

2014

2016



Headquarter and Shenzhen production base established, including an independent R&D center.



Advanced polymer production line built with 5 million USD investment, annual production capacity of 36 million Li-ion batteries.



Became a qualified supplier of Motorola and Nokia.



NEEQ Listing

Established overseas sales branch in Sao Paulo, Brazil, and successfully explored the South American market



The annual output exceeds 26 million pieces; Becoming authorized processing factory of BAK for aluminum case batteries.



Continuously moving forward for future development



2018

2019

2021

2021

2022

2024



Becoming qualified supplier of the largest brand automotive applications in India.



Weihaier Topway production base set up, including a fully automatic production line with 15 million Apple batteries production capacity and cost 50 million; A new production line was added to support Shenzhen Topway Energy Storage Division built.



Passing the MFI audit, and with 100 million RMB high-end intelligent production equipment, Topway Shenzhen branch entered energy storage market.

Company Introduction

Founded in 2003, Shenzhen Topway New Energy Co., Ltd. has been focusing on the R&D and production of new energy lithium batteries for over 21 years.

While operation headquartered in Shenzhen, Topway production base is located in Weihai, Shandong Peninsula.

With new fully automatic artificial intelligence production line for mobile phone batteries and energy storage batteries built in 2021, we have passed ISO9001 and ISO14001, many of our products have passed certificates such as UN38.3, CE, CB, IEEC, RoHS, FCC, UL...etc.

Have R&D center and PFMA (Production Failure Analysis Department) set up, we can effectively feed back, improve and solve problems encountered in production. Our production capacity, product R&D ability and customer service have been highly praised by customers from different countries.

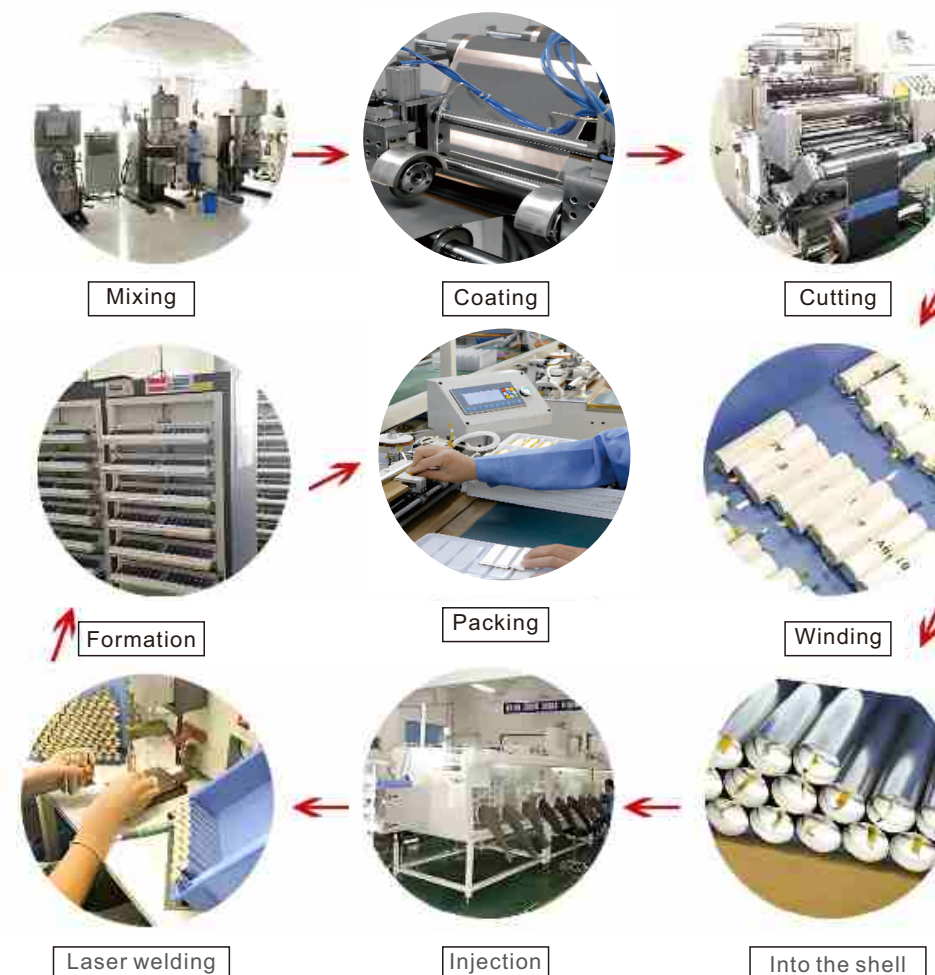
Topway batteries have been used in various of industries, including medical equipment, electric toys, power tools, POS machines, EV, lighting equipments, robots, IoT, solar and home energy storage system...etc.

Shandong R&D Engineering Technology
Manufacturing Base

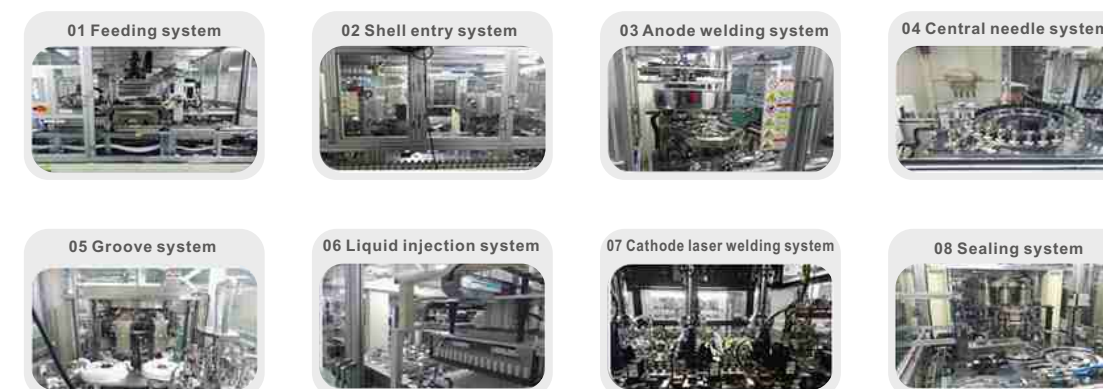


Shenzhen R&D Market Headquarters

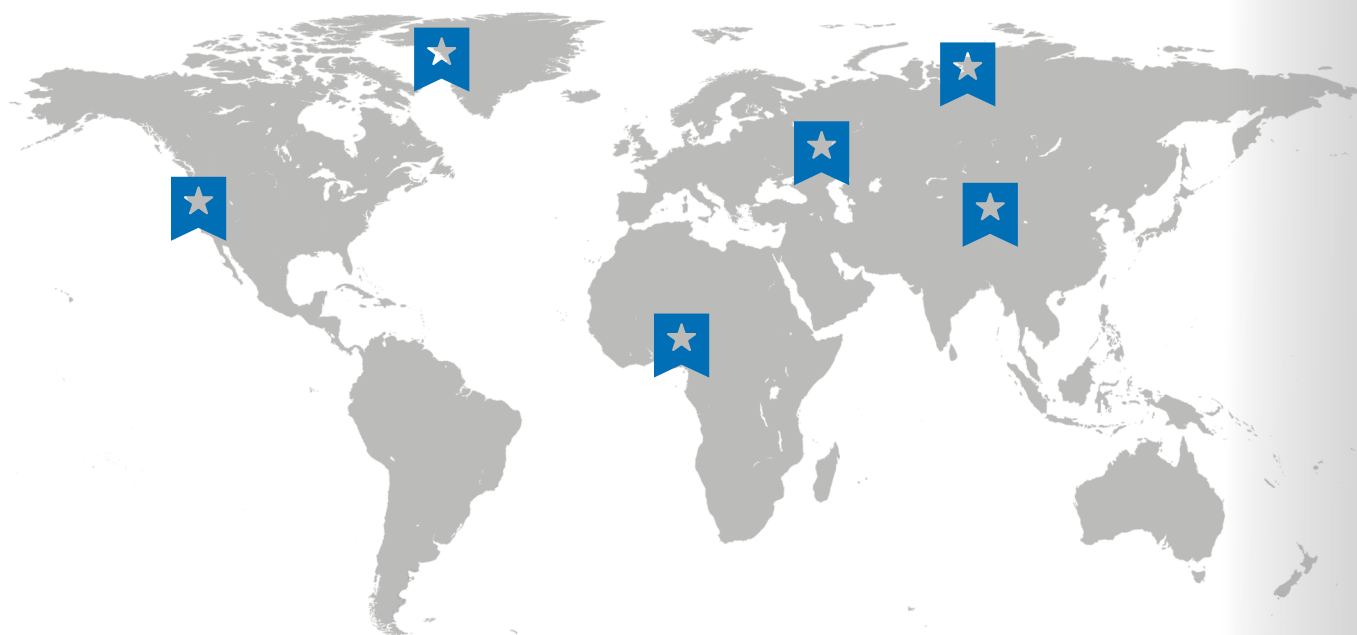
Factory crafts



Automatic Production Equipment



Application Market



Patent certification



300+ patent certificate

Product certification



IEC62133 CE ZIC Air freight report Apple Mfi Sea freight report UL UN38.3 WEEE

Company system certification



21 Years High-tech enterprises

Customized Lithium Battery Pack



- Advantages of Topway Customized battery packs.
- High temperature to +85°C;
- Low temperature to -40°C;
- High cycle life over 500, 800, 1000 times available;
- High discharge rate reach 120C;
- Battery cells from different brands for your choice, including Panasonic, Samsung, LG, Sony, EVE, BAK..etc.



Common Specification of Li-ion Battery Packs

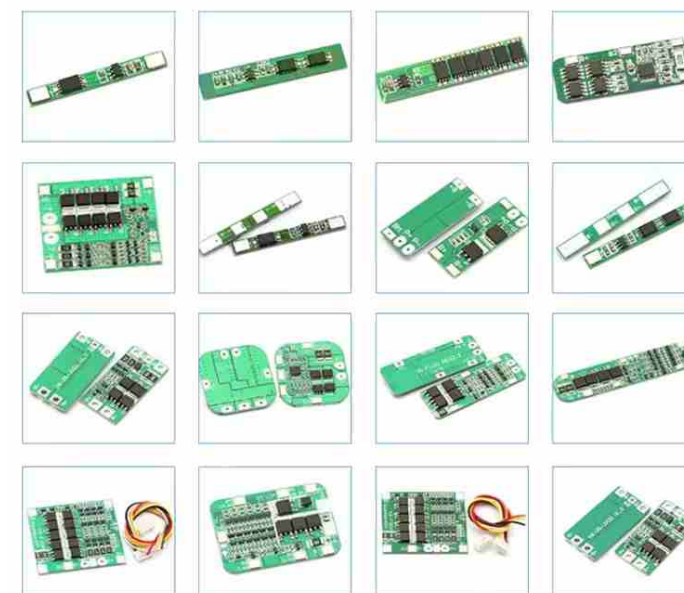
	14500 solution	18500 solution	18650 solution	21700 solution
Nominal Voltage	3.7V/7.4V/11.1V/14.8V/18.5V/22.2V/25.9V/37V/48.1V/72V...			
Nominal Capacity	0.8 ~ 20Ah	1.2 ~ 50Ah	2 ~ 100Ah	3 ~ 100Ah
Discharge Current	0.8 ~ 20A	1.2 ~ 50A	2 ~ 100A	3 ~ 100A
BMS Type	Hardware and software BMS available			
BMS Function	Over-charge, over-discharge, over-current, short-circuit, over-temperature, balance function... etc, other cusotmized functions available			
Modbus	I ² C, SMBus, RS232, RS485, CAN, Bluetooth...			
Connector	JST/Molex/XT plug/DC jacket/SM Plug/Anderson plug...etc			
Cycle life	≥80% after 800 times			
Warranty	1 Year			

OEM&ODM

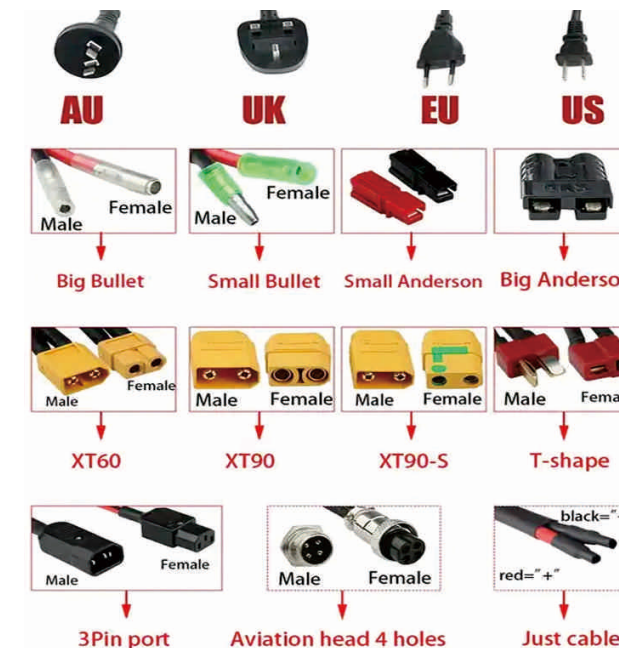
PCB/PCM/BMS

Customized Boards

Customized BMS charging and discharging current, voltages, balance function with communication protocols, etc.



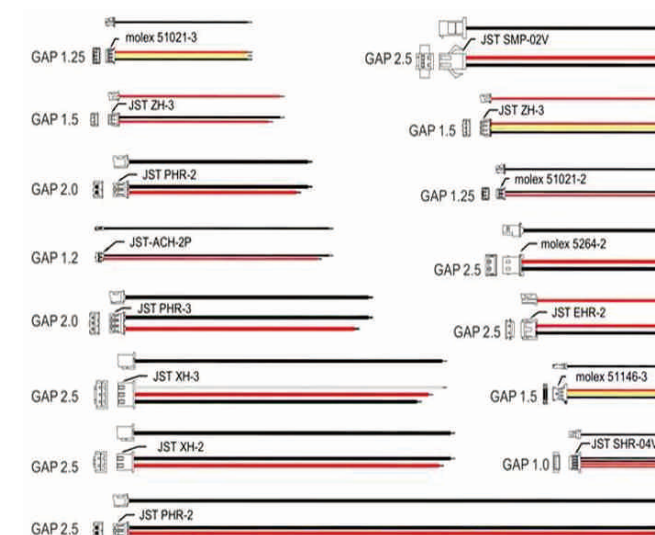
Customized Connectors,plug



1. Over charged voltage protection
2. Over discharged voltage protection
3. Thermal protection
4. Over load protection
5. Over-temperature protection
6. Balance functions
7. Customized functions available.....

1. JST / Molex connector
2. DC 1.35*3.5, 2.1*5.5 plug
3. XT plug
4. SM conector
5. Other

Customized wire model,length



Two-Wheeled Vehicle Battery Pack



Voltage(V)	Capacity(Ah)	Cell	Size(mm)	Application
36V/48V	14Ah	18650/21700	387*71*91.5	E-bike
24V/36V/48V	17Ah	18650/21700	490*94*94	E-bike
36V	7Ah	18650/21700	73.8*257.8	E-bike
48V	25Ah	18650/21700	455*126*90	E-bike
48V	10/12Ah	18650/21700	365*137*82	E-bike
36V/48V	10/12/14Ah	18650/21700	375*140*95	E-bike
48V	14/16/18Ah	18650/21700	185*150*175	E-bike
48V	16/18/20Ah	18650/21700	180*165*230	E-bike
48V	20Ah	18650/21700	Customized	E-motorcycle
60V	20Ah	18650/21700	Customized	E-motorcycle
72V	24Ah	18650/21700	Customized	E-motorcycle

LiFePO4 battery pack



LiFePO4 battery advantages

Longer cycle life--≥4000 times;
 Lighter weight--Less than half of Lead-acid battery;
 Higher energy density--Capacity can be double of Lead-acid battery for same size case;
 Perfect replacement for Lead-acid battery--Similar working voltage range;
 Environmental friendly--Do not contain Hg, Cd or other chemical elements that will pollute the environment.

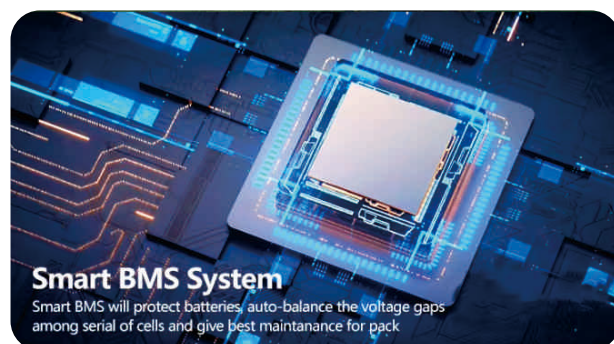
APPLICATION



Standard VRLA replacement battery

Spec	Power (Wh)	ABS case size: L*W*H*TH(mm)	Weight	Max. charge current	Max. discharge current	Terminal	Pack type	ABS case IP
6.4V4.5Ah	28.8	70*47*102*107	0.4Kg	4.5A	7A	F2	LFR18650-1500-2S3P	IP55
12.8V6Ah	76.8	90*70*101*107	0.75Kg	3A	6A	F2	IFR32700 N60,4S1P	IP55
12.8V6Ah	76.8	151*65*94*100	0.8Kg	3A	6A	F2	IFR32700 N60,4S1P	IP55
12.8V7Ah	89.6	151*65*94*100	1.06Kg	3.5A	7A	F2	IFR26650 N35,4S2P	IP55
12.8V9Ah	115.2	151*65*94*100	1.34Kg	4.5A	9A	F2	IFR26650 N30,4S3P	IP55
12.8V12Ah	153.6	151*98*95*101	1.55Kg	6A	12A	F2	IFR32700 N60,4S2P	IP55
12.8V24Ah	307.2	181*77*167*167	2.9Kg	12A	24A	M5	IFR32700 N60,4S4P	IP55
12.8V30Ah	384	165*175*125*125	3.9Kg	15A	30A	M5	IFR32700 N60,4S5P	IP55
12.8V33Ah	422.4	195*130*156*167	4.9Kg	16.5A	30A	M6	IFR26650 N34,4S10P	IP55
12.8V42Ah	537.6	197*165*170*170	5.7Kg	21A	42A	M6	IFR32700 N60,4S7P	IP55
12.8V54Ah	691.2	229*138*212*217	6.7Kg	27A	54A	M6	IFR32700 N60,4S9P	IP55
12.8V84Ah	1075.2	260*169*213*218	10.2Kg	42A	60A	M8	IFR32700 N60,4S14P	IP55
12.8V100Ah	1280	256*165*210	11Kg	50A	100A	M8	IFR32700 N60,4S17P	IP55
12.8V200Ah	2560	250*194*384	18Kg	100A	100A	M8	IFR32700 N60,4S34P	IP55
25.6V 100Ah	2560	522*238*218*220	27Kg	50A	100A	M8	IFR32700 N60,8S17P	IP55

ModBus available according: RS485, CAN and Bluetooth



Customizable:LED screen

Application



Power tools



Solar panel



electric car



vacuum cleaner



Sweepers



Outdoor energy storage



car audio battery



Solar panel



Solar street lights



POS



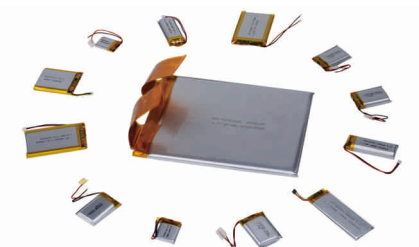
GPS Tracker



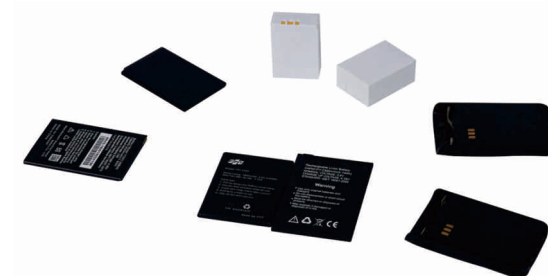
Mobile Headlight

<2000mAh capacity Li-po battery

No	Width (mm)	Length (mm)	Thickness (mm)	Model	Capacity (mAh)	Voltage (V)
1	10.0	13.5	3.50	351013	15	3.7V
2		18.0	3.80	381018	35	3.7V
3		22.5	1.50	151020	12	3.7V
4		35.5	4.30	431035	110	3.7V
5		58.5	3.70	371058	160	3.7V
6	15.0	15.5	6.60	661515	85	3.7V
7		25.3	3.20	321525	80	3.7V
8		37.5	5.10	501537	230	3.7V
9		50.5	4.20	401550	280	3.7V
10		58.0	8.00	801558	650	3.7V
11	20.0	75.0	4.50	451575	450	3.7V
12		18.5	3.60	362018	90	3.7V
13		25.5	2.70	202025	50	3.7V
14		30.0	5.00	502030	250	3.7V
15		40.5	6.00	602040	420	3.7V
16		49.5	4.10	402050	360	3.7V
17		55.5	8.40	852055	970	3.7V
18		60.5	6.00	602060	770	3.7V
19		65.5	3.50	352065	350	3.7V
20		70.0	7.50	752070	1000	3.7V
21	30.0	83.5	3.00	302083	420	3.7V
22		27.0	7.50	753027	550	3.7V
23		30.5	5.00	503030	400	3.7V
24		33.0	8.00	803033	800	3.7V
25		35.0	4.00	403035	400	3.7V
26		38.5	4.50	453038	530	3.7V
27		40.0	5.00	503040	650	3.7V
28		45.8	6.20	603045	850	3.7V
29		48.0	5.00	503048	800	3.7V
30		49.5	5.50	553050	820	3.7V
31		55.0	3.00	303055	500	3.7V
32		60.5	7.00	703060	1400	3.7V



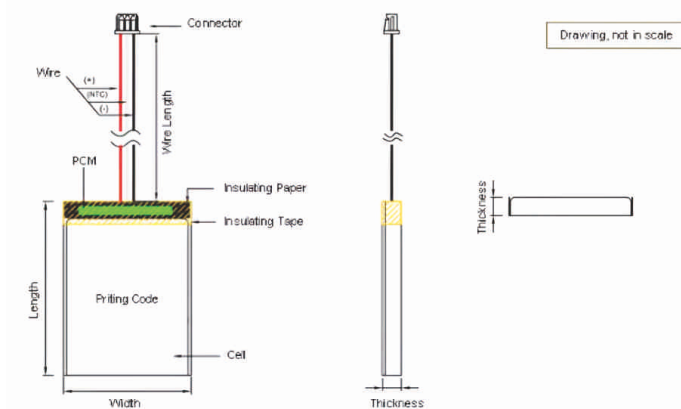
No	Width (mm)	Length (mm)	Thickness (mm)	Model	Capacity (mAh)	Voltage (V)
33	30.0	78.0	4.00	403078	1050	3.7V
34		80.5	7.50	753080	2000	3.7V
35		85.0	6.50	623085	1300	3.7V
36		94.0	3.70	373094	1300	3.7V
37	34.0	50.0	10.00	103450	1550	3.7V
38		45.0	5.30	503445	750	3.7V
39		50.0	6.00	603450	1250	3.7V
40		60.0	4.80	503460	1080	3.7V
41		65.5	7.00	703465	1700	3.7V
42		70.0	7.00	703470	2000	3.7V
43	40.0	75.0	3.40	343475	1100	3.7V
44		66.0	4.8	483966	1500	3.7V
45		73.5	4.0	403973	1300	3.7V
46		78.0	3.1	313978	1200	3.7V
47		38.0	9.70	974038	1800	3.7V
48		40.0	10.00	104040	1650	3.7V
49	45.0	45.0	4.50	454045	800	3.7V
50		50.0	8.00	804550	2000	3.7V
51		55.0	5.50	554555	1700	3.7V
52		61.5	3.30	334561	900	3.7V
53	50.0	64.0	4.70	474564	1700	3.7V
54		80.0	5.50	554580	1900	3.7V
55		40.0	8.50	855040	2000	3.7V
56		50.0	5.00	505050	1400	3.7V
57		60.5	5.20	525060	2000	3.7V
58		58.0	5.80	585158	1950	3.7V
59	60.0	66.5	3.00	305166	1200	3.7V
60		44.0	3.00	306044	900	3.7V
61		85.0	3.40	357085	1700	3.7V
62		35.5	5.30	527535	1300	3.7V
63	76.0	85.0	3.40	347685	1900	3.7V



2000-5000mAh capacity Li-po battery

No	Width (mm)	Length (mm)	Thickness (mm)	Model	Capacity (mAh)	Voltage (V)
1	50.0	70.0	4.70	475070	2050	3.7V
2		80.0	5.00	505080	2500	3.7V
3		95.0	6.30	635095	3900	3.7V
4		100.0	4.40	4450100	2800	3.7V
5		120.0	6.50	6550120	5000	3.7V
6		140.0	3.50	3550140	3000	3.7V
7	55.0	65.0	8.00	805565	3600	3.7V
8		75.0	6.20	625575	3100	3.7V
9		85.0	4.00	405585	2100	3.7V
10		100.0	4.00	4055100	2800	3.7V
11		115.0	4.50	4555115	3200	3.7V
12		133.0	5.60	5755135	5000	3.7V
13	60.0	145.0	3.50	3555145	3550	3.7V
14		59.9	5.90	606060	2700	3.7V
15		70.0	5.00	506070	2650	3.7V
16		85.0	4.80	486085	3200	3.7V
17		90.0	10.80	106090	7300	3.7V
18		120.0	10.00	1060120	8000	3.7V
19	65.0	125.0	4.00	4060125	4000	3.7V
20		48.0	9.80	986548	4000	3.7V
21		65.0	9.80	986565	5000	3.7V
22		75.0	6.40	646575	4000	3.7V
23		88.0	3.50	356588	2700	3.7V
24		95.0	5.90	596595	4650	3.7V
25	70.0	100.0	7.65	7865100	6950	3.7V
26		113.0	9.50	9565113	8000	3.7V
27		120.0	7.70	7865120	8050	3.7V
28		132.0	3.40	3466134	3700	3.7V
29		152.0	3.20	3365154	4100	3.7V
30		55.0	7.00	707055	3000	3.7V
31	70.0	75.0	5.00	507075	3150	3.7V
32		90.0	8.00	807090	6000	3.7V
33		98.0	3.10	3270100	2400	3.7V
34		135.0	4.30	4370135	5500	3.7V
35		150.0	3.20	3270150	4400	3.7V
36		165.0	3.70	3770165	5500	3.7V
37		185.0	3.60	3670185	5400	3.7V

No	Width (mm)	Length (mm)	Thickness (mm)	Model	Capacity (mAh)	Voltage (V)
38	75.0	77.0	3.70	377577	2400	3.7V
39		90.0	3.80	387590	2800	3.7V
40		100.0	3.00	3075100	2800	3.7V
41		110.0	3.30	3375110	3500	3.7V
42	80.0	82.0	5.30	538082	4000	3.7V
43		85.0	5.00	508085	4000	3.7V
44		95.0	4.00	408095	3400	3.7V
45		105.0	4.00	4080105	3900	3.7V
46		110.0	5.00	5080110	5000	3.7V
47		141.0	3.00	3080141	4000	3.7V
48	85.0	150.0	7.50	7580150	12000	3.7V
49		185.0	3.80	3880185	8000	3.7V
50		88.0	3.40	348588	2800	3.7V
51		100.0	2.90	2985100	2800	3.7V
52		120.0	3.50	3585120	3900	3.7V
53		135.0	2.90	2985135	4000	3.7V
54	90.0	140.0	3.20	3285140	5000	3.7V
55		80.0	4.00	409080	3250	3.7V
56		95.0	3.00	309095	2800	3.7V
57		100.0	3.20	3290100	3400	3.7V
58	100.0	107.0	3.10	3190107	3400	3.7V
59		125.0	3.70	3790125	4500	3.7V
60		61.5	3.50	3510062	2400	3.7V
61		98.0	3.50	3510098	4200	3.7V
62		104.0	3.10	31100104	4200	3.7V
63		148.0	4.70	47100148	8800	3.7V
64		152.0	3.90	39100152	6600	3.7V



Li-ion battery cell

HCC Model	Material	Votalge	Capacity	Rate
10440	NCM	3.7V	320mAh	1C、3C、5C、8C、10C
14250	NCM	3.7V	300mAh	
14430	NCM	3.7V	600mAh	
14500	NCM	3.7V	800mAh	
14650	NCM	3.7V	1100mAh	
15270	NCM	3.7V	400mAh	
16340	NCM	3.7V	700mAh	
16500	NCM	3.7V	1200mAh	
16650	NCM	3.7V	1600mAh	
17335	NCM	3.7V	700mAh	
18650	NCM	3.7V	700mAh	
	NCM	3.7V	1300mAh	
	NCM	3.7V	1500mAh	
	NCM	3.7V	1800mAh	
	NCM	3.7V	2000mAh	
	NCM	3.7V	2200mAh	
	NCM	3.7V	2500mAh	
	NCM	3.7V	2600mAh	
	NCM	3.7V	3000mAh	
	NCM	3.6V	3200mAh	
	NCM	3.6V	3350mAh	
	NCM	3.6V	3500mAh	
21700	NCM	3.7V	3000mAh	
	NCM	3.7V	4000mAh	
	NCM	3.6V	4500mAh	
	NCM	3.6V	5000mAh	
	NCM	3.6V	5300mAh	
	NCM	3.6V	5500mAh	



LiFePO4 battery cell

No	Standard Model	Voltage (V)	Capacity (mAh)	Size(mm)		Standard Charging Current(mA)	Fast Charging Current (mA)	Standard Discharging Current (mA)	Max Discharging Current (mA)	End-of charge Voltage(V)	End-of discharge Voltage(V)	Weight (g)	Cycle Life (DOD 80%)
				Diameter	Height								
1	IFR10130	3.2	30	10.3	13.2	6	30	6	90	3.65	2	5	≥2000
2	IFR10440	3.2	200	10.3	44.2	40	200	40	600	3.65	2	7	≥2000
3	IFR14400	3.2	380	14.4	40.2	76	380	76	1140	3.65	2	13	≥2000
4	IFR14500	3.2	500	14.2	50.2	100	500	100	1500	3.65	2	16	≥2000
5	IFR15266	3.2	220	15.5	26.5	44	220	44	660	3.65	2	12	≥2000
6	IFR14650	3.2	800	14.2	65.3	160	800	160	2400	3.65	2	21	≥2000
7	IFR16340	3.2	400	16.2	34.2	80	400	80	1200	3.65	2	13.5	≥2000
8	IFR17335	3.2	400	16.8	34.5	80	400	80	1200	3.65	2	15.8	≥2000
9	IFR18470	3.2	850	18.1	47.1	170	850	170	2550	3.65	2	19	≥2000
10	IFR18490	3.2	650	18.1	49.1	130	650	130	1950	3.65	2	21	≥2000
11	IFR18500	3.2	1000	18.1	50.2	200	1000	200	3000	3.65	2	34	≥2000
12	IFR18650	3.2	1400	18.5	65.3	280	1400	280	4200	3.65	2	42	≥2000
13	IFR18650	3.2	1500	18.5	65.3	300	1500	300	4500	3.65	2	42	≥2000
14	IFR22430	3.2	1200	22.5	43.3	240	1200	240	3600	3.65	2	47	≥2000
15	IFR22650	3.2	1800	22.5	65.3	360	1800	360	5400	3.65	2	60	≥2000
16	IFR26430	3.2	1800	26.5	43.3	360	1800	360	5400	3.65	2	54	≥2000
17	IFR26500	3.2	2100	26.5	50.3	420	2100	420	6300	3.65	2	56	≥2000
18	IFR26650	3.2	3100	26.5	65.3	620	3100	620	9300	3.65	2	86	≥2000
19	IFR32600	3.2	3500	32.5	60.5	700	3500	700	10500	3.65	2	125	≥2000
20	IFR32650	3.2	4500	32.3	65.2	900	4500	900	13500	3.65	2	138	≥2000
21	IFR32700	3.2	7000	32.4	70.2	900	4500	900	13500	3.65	2	139	≥2000
22	IFR32900	3.2	4500	32.5	90.5	900	4500	900	13500	3.65	2	170	≥2000
23	IFR42110	3.2	10000	42.5	110.5	2000	10000	2000	30000	3.65	2	350	≥2000
24	IFR18500	3.2	800	18.5	50.2	160	800	160	8000	3.65	2	26	≥2000
25	IFR18490	3.2	800	18.5	49	160	800	160	8000	3.65	2	25	≥2000
26	IFR18500	3.2	900	18.5	50.2	180	900	180	9000	3.65	2	28	≥2000
27	IFR18650	3.2	1100	18.5	653	220	1100	220	11000	3.65	2	40	≥2000
28	IFR22430	3.2	950	22.5	43.3	170	950	170	9500	3.65	2	45	≥2000
29	IFR26430	3.2	1400	26.5	43.3	280	1400	280	14000	3.65	2	61	≥2000
30	IFR26650	3.2	2400	26.5	65.3	480	2400	480	24000	3.65	2	87	≥2000

Prismatic LiFePO4 battery cell

Voltage(V)	Capacity(Ah)	Cycle life(25°C)	Internal resistance	Weight (g)	Dimension (mm)
3.2	100	6000(0.2C/0.2C)	≤0.5mΩ	1920±100	42*173*130
3.2	100	6000(0.2C/0.2C)	≤0.5mΩ	1920±100	48*173*128
3.7	102	6000(0.2C/0.2C)	≤0.5mΩ	1980±60	52*148*95
3.2	102	6000(0.2C/0.2C)	≤0.5mΩ	1980±60	50*160*119
3.7	114	6000(0.2C/0.2C)	≤0.5mΩ	2150±100	53*148*103
3.7	116	6000(0.2C/0.2C)	≤0.5mΩ	2200±100	27*300*91
3.7	117	6000(0.2C/0.2C)	≤0.5mΩ	2200±100	34*220*102
3.2	120	6000(0.2C/0.2C)	≤0.5mΩ	2250±100	48*174*165
3.7	120	6000(0.2C/0.2C)	≤0.5mΩ	2250±100	43*218*81
3.7	125	6000(0.2C/0.2C)	≤0.5mΩ	2350±100	44*147*272
3.7	132	6000(0.2C/0.2C)	≤0.5mΩ	2500±100	52*148*106
3.2	135	6000(0.2C/0.2C)	≤0.5mΩ	2550±100	43*170*173
3.2	140	6000(0.2C/0.2C)	≤0.5mΩ	2600±100	46*199*170
3.2	150	6000(0.2C/0.2C)	≤0.5mΩ	2800±100	33*22*207
3.2	150	6000(0.2C/0.2C)	≤0.5mΩ	2800±100	44*173*205
3.7	180	6000(0.2C/0.2C)	≤0.5mΩ	3200±100	80*148*105
3.2	230	6000(0.2C/0.2C)	≤0.5mΩ	4140±120	54*173*207
3.2	230	6000(0.2C/0.2C)	≤0.5mΩ	4140±120	54*173*206
3.7	234	6000(0.2C/0.2C)	≤0.5mΩ	4200±100	67*220*106
3.2	280	6000(0.2C/0.2C)	≤0.5mΩ	5490±300	72*173*205



Our Quality Control



Quality Control

Design Quality

Triple audit mechanism from PE/ME to engineering manager and IDQA to ensure rational and scientific design

Raw Material Inspection

SQE/IQC, the implementation and testing of incoming material, supervision of suppliers to ensure the quality of raw materials

Production control

IPQC process control

Inspection before shipping

FQC, OQC finished goods inspection



Topway have experienced worker, professional engineer team and strict management ensure us to provide stable and reliable customized products.

From raw material inspection to production control, from design and development to product test, from packaging to transportation, strictly control all the steps only to provide customers with safe batteries.

Design Quality

Triple audit mechanism from PE/ME to engineering manager and IDQA to ensure rational and scientific design

Raw Material Inspection

SQE/IQC, the implementation and testing of incoming material, supervision of suppliers to ensure the quality of raw materials

Production control

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Inspection before shipping

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Warranty policy



1. For customized Lithium battery pack, 12 month warranty since the delivery date.
2. Free repair and replacement service is provide during warranty period if the product is found to have manufacturing defects or quality problems.
3. The warranty only applies to the failures under normal use and does not include problems caused by human damage or improper use.
4. Parts required for repair or replacement will be determined based on actual situation.



封底背面