TCS® | BATTERY

SINCE 1995

Lithium Battery

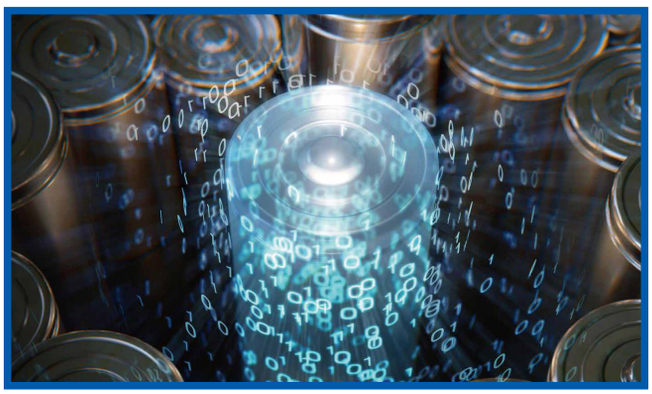
Product Catalog

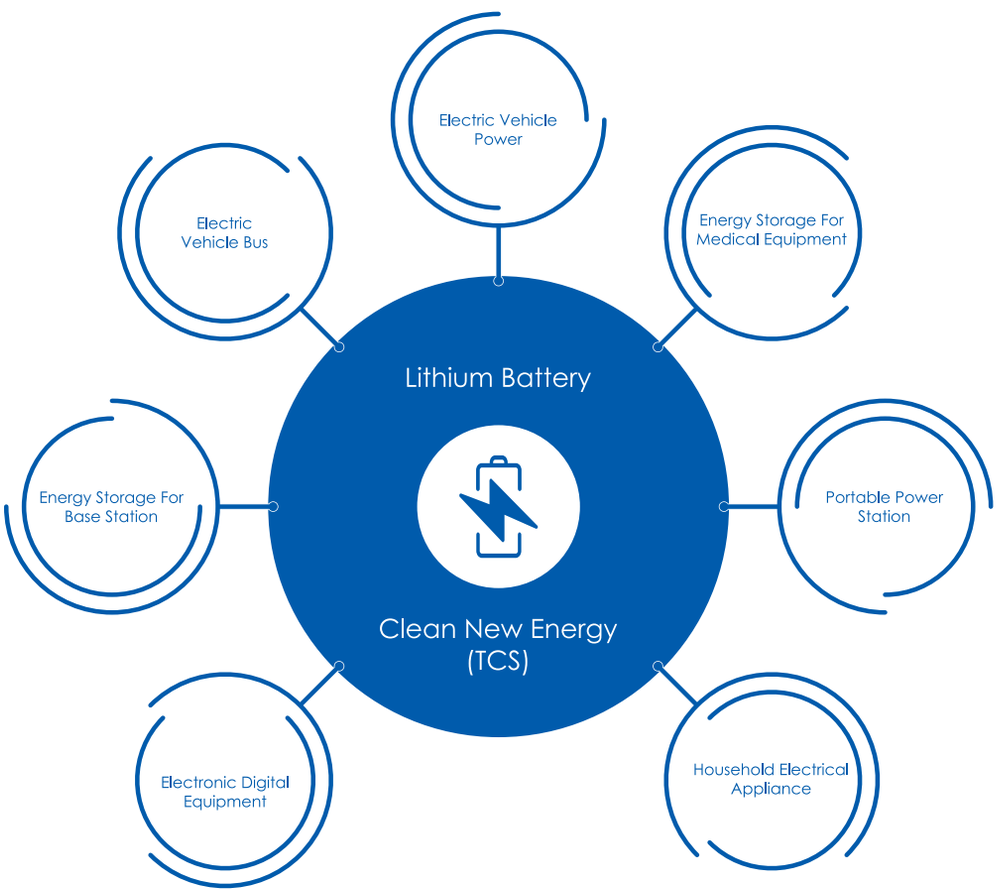
www.songligroup.com

APPLICATION

Clean New Energy

Nowadays, the development of energy, energy and the environment are issues of common concern to the whole world and to all mankind, as well as important issues in Chinese social and economic development.





Application

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Company **Profile**

Songli Battery was founded in 1995, which specializes in advanced battery research, development, production and marketing. Songli Battery is one of the earliest battery brands in China. Company's products are widely used in motorcycles, electric bicycles, cars and industries and all kinds of special purposes with more than two hundred varieties and specifications.

After more than 20 years of development, Songli Battery keeps growing. The production base covers an area of more than 400,000 square meters with more than 2000 employees. It has a complete set of modern standard factory buildings, office buildings and employee apartment buildings. Songli Battery has advanced battery production lines and technology, and has been continuously introducing the world's leading automated assembly welding, auto wrapping machines and other equipments. Songli Battery actively cooperates with the government to develop the Non-Cadmium Container Formation Technology of battery, and constantly expands the self-brand advantage. The factory produces nearly 2,000,000 batteries per month, and the total annual production capacity is more than 4,000,000 KVAh.

Office

Exhibition Room

TCS® SONGLI BATTERY

Songli Battery has become a major enterprise, which gradually develops into one of the largest domestic battery manufacturers. The company has perfect quality assurance system, and has passed ISO9001, ISO/TS16949 quality management system certification. With rich experience in production of battery, perfect innovation system, good relationship with customers and reliable pre-sales, sales and after-sales service, company maintains the stable dealership in China and abroad and has service agencies in many cities. In overseas, the business has been expanded to the Middle East, America, Africa, Southeast Asia and more than 100 countries and regions.

In order to participate in market competition, Songli Battery has developed quickly through technical innovation, technology development, joint venture cooperation, merger and joint operations. The company has now formed a group business model with Hongkong Songli Group as the core, Xiamen Songli New Energy Technology Co., Ltd, Xiamen Songli Import and Export Co., Ltd and Jin Jiang Songli Battery Co., Ltd as subsidiaries, holding (participating) shares of the company, while constantly integrating market resources. It has invested and cooperated with many battery enterprises.

MATERIAL PROCESS

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PRODUCTION STEPS

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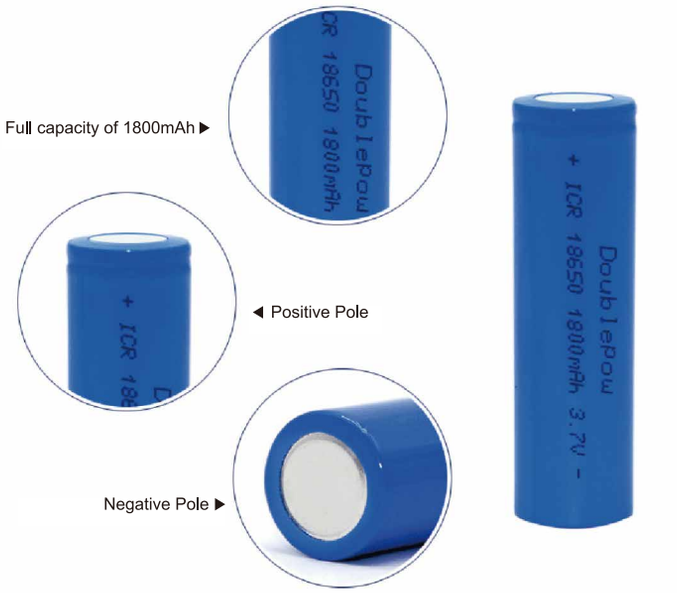
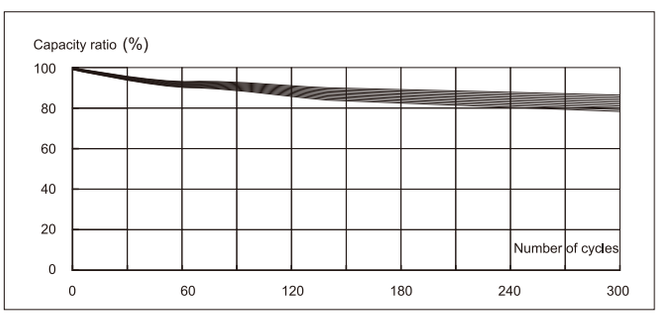
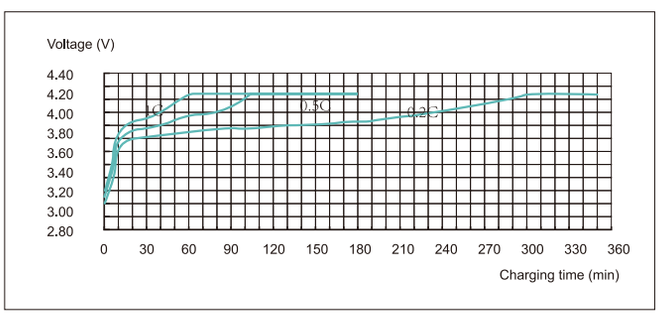


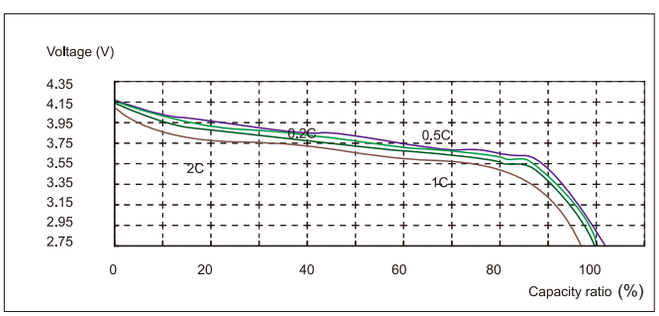
Capacity Cell 1800/2000/2200/2500mAh

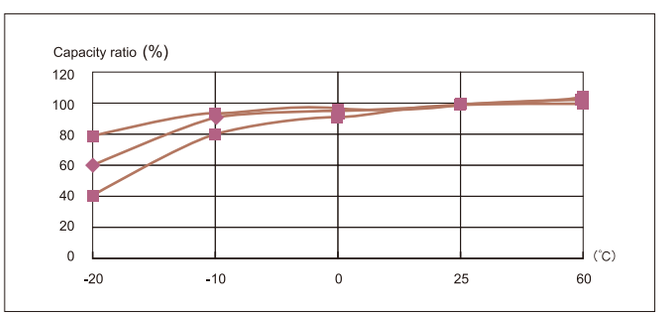
- Using imported materials with superior quality, lithium cobalt oxide is cathode material, and carbon is anode material.
- Electrolyte is composed of solid or organogel conductive films.
- Excellent safety performance, and the volume energy density can reach 500 -600WhL.
- Small and light-weight, can be in series or in parallel connection.
- Battery with different capacity and size can be customized and mass produced.
- Conform to RoHS, REACH, FCC, UN38.3, CE, CB, CQC, ISO requirements.

RoHS REACH FC UN38.3 CE CB CQC ISO 9001





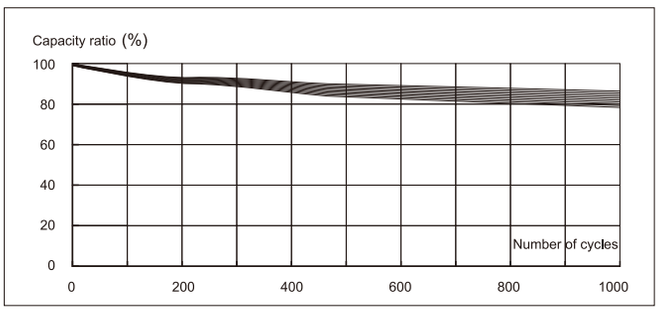


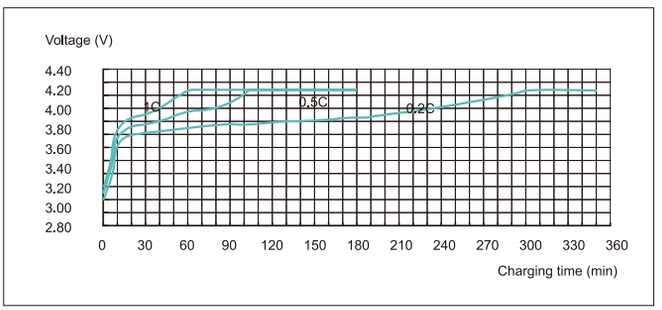


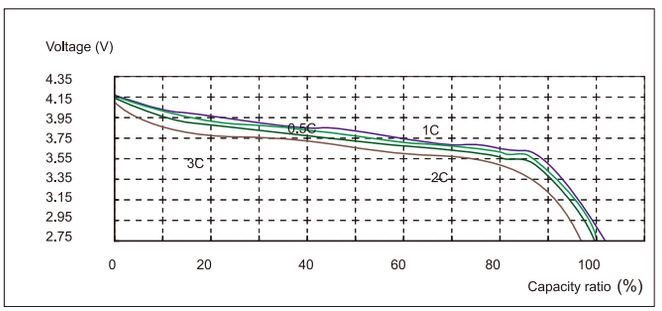
High Rate Cell 1800/2000/2200/2500mAh

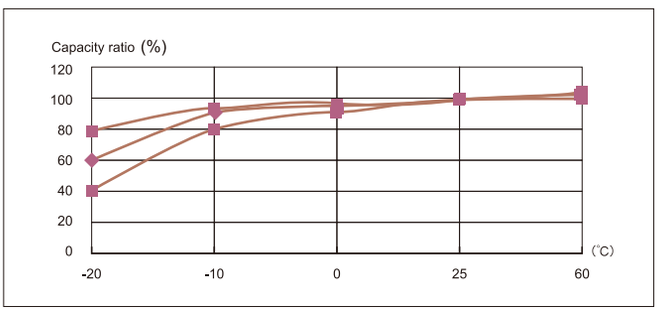
- High rate battery with maximum discharge rate to 30C and the capacity retention rate is above 95%.
- 5C fast charging system, charging battery more than 90% in 12 minutes.
- High rate 4.45V system battery energy density increases above 20% than 4.2V.
- High capacity 4.45V system battery energy density increases above 20% than 4.2V.
- Different capacity and size can be customized; the highest capacity can be reached to 10Ah.
- Conform to RoHS, REACH, FCC, UN38.3, CE, CB, CQC, ISO requirements.

RoHS REACH FC UN38.3 CE CB CQC ISO 9001









The data is for reference only

Start up series

Motorcycle lithium start battery

The lithium iron phosphate starter battery is suitable for conventional motorcycle models in the market. Compared with traditional lead acid battery, it has less weight, smaller volume, stronger star-up performance, more energy and lower emission.

Less volume and weight:
1/3 of normal lead acid battery.

Long life span
At least twice life span than lead acid battery. Normal use for 5~8 years determined by how it is used.

High/Low-temperature start
Good performance at high & low temperatures.
（-20°C~50°C）

Save charging time
Support boost charging and discharging.

Non-spillable
Acid free, no electrolyte leakage problems.

Strong start power
Can provide a strong starting current for the vehicle to meet the needs of repeated start.

Excellent cycle life
More than 2000 cycles (lead acid battery only 300-400 cycles).

1 years warranty

⊙ Product characteristics

Model No.	Dimension(±2mm)			Volts(v)	Weight(±3%kg)	Capacity (Ah)	Polarity	Equal To Lead Battery Capacity(Ah)	Main Replacement Lead Acid Battery Model
	L	W	H						
TLB4A-MF	113	48	85	12.8	0.55	2.2	− +	2-3	YTR4A-BS
TLB4B-MF	113	38	85	12.8	0.55	2.2	− +	2-3	GT4B-5-BS
TLB4L-MF	113	70	85	12.8	0.60	3	− +	3-4	YT4L-BS/ YTZ5S-BS
TLB5L-MF	113	70	105	12.8	0.80	4	− +	4-6	YT5L-BS
TLB5-MF	120	60	130	12.8	0.80	4	− +	4-6	12N5-BS
TLB7-MF	135	75	134	12.8	0.95	4	− +	4-8	12N9-BS
TLB7A-MF	150	87	93	12.8	0.95	4.8	− +	4-8	YT7-BS
TLB7B-MF	150	65	93	12.8	0.80	4.8	+ −	4-8	YT7B-BS
TLB7L-MF	113	70	130	12.8	0.95	4.8	− +	4-8	12N7A-BS
TLB7S-MF	113	70	105	12.8	0.95	4.8	− +	4-8	YT5L-BS
TLB9-MF	150	87	105	12.8	1.20	6	+ −	6-10	YT9-BS
TLB9A-MF	150	69	105	12.8	1.20	6	+ −	6-10	YT9B-BS
TLB9B-MF	135	75	138	12.8	0.95	4.8	+ −	4-8	12N9-BS
TLB10S-MF	150	87	93	12.8	1.20	6.6	+ −	6-10	YT7-BS/YTZ10S-BS
TLB12A-MF	150	87	105	12.8	1.50	8	+ −	7-12	YT9-BS/YTZ12S-BS
TLB12AL-MF	135	80	160	12.8	1.50	8	+ −	7-12	12N14-BS/YB14-BS/YB14L-BS
TLB12-MF	150	87	130	12.8	1.50	8	+ −	7-12	12N12-BS
TLB12S-MF	150	87	110	12.8	1.20	8	+ −	7-12	YT9-BS/YTZ12S-BS
TLB14S-MF	150	87	110	12.8	1.20	8	− +	7-12	YT9-BS/YTZ12S-BS
TLB12B-MF	150	69	130	12.8	1.50	8	+ −	7-12	YT12B-BS
TLB14LA-MF	135	90	165	12.8	1.60	8	− +	8-16	12N14-BS/YB14-BS/YB14L-BS
TLB14-MF	150	87	145	12.8	1.60	8	+ −	8-16	YT14B-BS/YTX16-BS
TLB14L-MF	150	87	145	12.8	1.80	9.6	− +	8-16	YT14B-BS/YTX16-BS
TLB20L-MF	175	87	155	12.8	2.30	13.2	+ −	16-30	YTX20-BS/YTX20L-BS
TLB19BL-MF	182	78	171	12.8	2.30	13.2	− +	16-30	
TLB30L-MF	166	127	175	12.8	3.00	22	− +	30-40	12N30L-BS

* The above data are for reference only, please refer to the actual object.

Energy storage series Lithium storage battery

Lithium Iron storage battery is gradually and widely used in various fields and applications, as it has remarkable advantages: higher energy density and performance, less weight and volume and longer life time comparatively.

Application

- Engine starter
- Electric tools
- Electric toys
- Electric power system
- Marine equipment
- Computer backup power
- Solar system/Wind system
- Emergency lightening system
- Communication equipment
- Fire & Security & Alarm system
- Cable TV
- Control system
- Nuclear power plant
- Generating station
- Telecom system
- Peak load compensation energy storage device
- Uninterrupted Power Supply(UPS)
- Backup & Standby power

Product characteristics

- High energy density - a minimum 2.5x that of lead acid battery
- Lighter weight - about 40% of the weight of a comparable lead acid battery
- No memory and high-efficiency, efficient charge anytime, no reduction of capacity
- Wider operation temperature range : -20ºC~50ºC
- Low self-discharge rate: < 3% monthly

Model No.	Dimension(±2mm)			Weight (±3%kg)	Volts(v)	Capacity(Ah)	Cell material	Cell shape	Series and parallel of the cells	Cycle life
	L	W	H							
TLB12-10A	151	99	94	1.5	12.8	10	LiFePO4	Cylindrical	2S4P	2000
TLB12-30	194	132	170	3.8	12.8	30	LiFePO4	Prismatic	1S4P	4000
TLB12-50	229	138	208	7.3	12.8	50	LiFePO4	Prismatic	1S4P	4000
TLB12-85	260	168	208	10.5	12.8	85	LiFePO4	Prismatic	1S4P	4000
TLB12-100	330	172	220	11.2	12.8	100	LiFePO4	Prismatic	1S4P	4000
TLB12-120	330	172	220	12.5	12.8	120	LiFePO4	Prismatic	1S4P	4000
TLB12-200	483	170	240	20.3	12.8	200	LiFePO4	Prismatic	2S4P	4000
TLB12-300	522	240	218	28.5	12.8	300	LiFePO4	Prismatic	3S4P	4000
TLB12-400	522	240	218	38.0	12.8	400	LiFePO4	Prismatic	2S4P	4000
TLB24-30	229	138	208	7.0	25.6	30	LiFePO4	Prismatic	1S8P	4000
TLB24-50	330	172	215	13.5	25.6	50	LiFePO4	Prismatic	1S8P	4000
TLB24-85	483	170	240	19.0	25.6	85	LiFePO4	Prismatic	1S8P	4000
TLB24-100	483	170	240	20.5	25.6	100	LiFePO4	Prismatic	1S8P	4000
TLB24-100	380	285	177	27.0	25.6	100	LiFePO4	Cylindrical	17S8P	2000
TLB24-120	522	240	218	26.0	25.6	120	LiFePO4	Prismatic	1S8P	4000
TLB24-200	520	269	220	36.2	25.6	200	LiFePO4	Prismatic	1S8P	4000
TLB48-60A -HES	442	430	88	29.0	51.2	60	LiFePO4	Prismatic	1S16P	4000
TLB48-100A -HES	442	470	154	46.0	51.2	100	LiFePO4	Prismatic	1S16P	4000
TLB48-60B -HES	400	530	120	32.0	51.2	60	LiFePO4	Prismatic	1S16P	4000
TLB48-100B -HES	400	530	178	49.0	51.2	100	LiFePO4	Prismatic	1S16P	4000
TLB48-50-CB	442	410	133	28.0	51.2	50	LiFePO4	Prismatic	1S16P	4000
TLB48-100-CB	442	450	154	45.0	51.2	100	LiFePO4	Prismatic	1S16P	4000

* The above data are for reference only, please refer to the actual object.

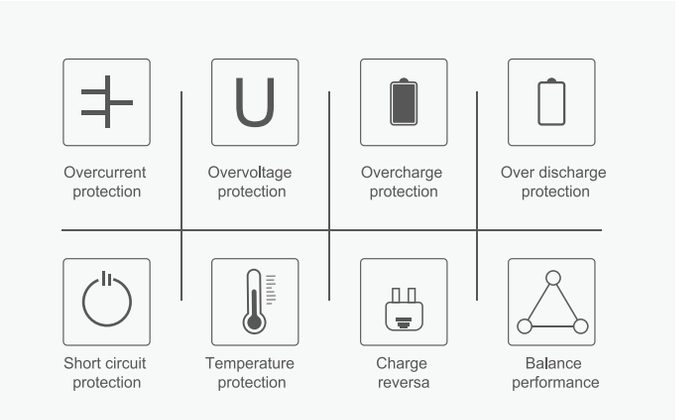
Power series

Electric motorbike/ Electric car

The power battery bases on ternary lithium material with imported protection chip. The battery could provide stable and reliable power supply for electric motorcycle or electric car.

Product characteristics

- **Light weight and small size**
  Only 1/3 of the weight of traditional lead-acid battery.
- **Large capacity**
  Single charge range reaches 35-85Km
- **No risk of leakage during installation**
  Easy installation, no leakage with upside down.
- **Long life and lasting**
  More than 500 discharge times (100%DOD)



Application: Light electric vehicle: electric bicycles, golf carts, small flatbed battery car, forklift, sanitation vehicle, powered wheelchair etc.

Electric motorcar

Mobility scooter

Adult E-scooter

Hover board

Electric vehicle

Spec	Size(mm)	Voltage(V)	Capacity(Ah)	Weight(±3%kg)	Recharge Mileage(km)	Cycle Times(100%DOD)	Cell material	Cell shape
TLB2440	305*155*70	24	40	8.1	-	≥500	NCA	Cylindrical
TLB3606	200*75*70	36	6	4.0	35-60	≥500	NCA	Cylindrical
TLB3608	200*85*70	36	8	4.5	35-60	≥500	NCA	Cylindrical
TLB3610	200*85*70	36	10	4.5	35-60	≥500	NCA	Cylindrical
TLB3612	200*155*70	36	12	5.5	35-60	≥500	NCA	Cylindrical
TLB4808	245*120*72	48	8	5.1	35-60	≥500	NCA	Cylindrical
TLB4809	245*120*72	48	9	5.75	35-60	≥500	NCA	Cylindrical
TLB4810	245*120*72	48	10	5.75	35-60	≥500	NCA	Cylindrical
TLB4812	245*120*72	48	12	6.4	35-60	≥500	NCA	Cylindrical
TLB4815	252*142*71	48	15	6.4	35-60	≥500	NCA	Cylindrical
TLB4820	180*170*154	48	20	7.7	70-80	≥500	NCA	Cylindrical
TLB6010	175*135*80	60	10	5.9	45-60	≥500	NCA	Cylindrical
TLB6012	175*135*120	60	12	7.6	45-60	≥500	NCA	Cylindrical
TLB6015	175*135*120	60	15	7.6	45-60	≥500	NCA	Cylindrical
TLB6018	175*135*180	60	18	10.15	45-60	≥500	NCA	Cylindrical
TLB6020	204*149*186.5	60	20	9.3	60-70	≥500	NCA	Cylindrical
TLB6025	320*240*150	60	25	11.0	60-70	≥500	NCA	Cylindrical
TLB6030	320*240*150	60	30	12.7	60-70	≥500	NCA	Cylindrical
TLB6040	320*240*150	60	40	16.1	60-70	≥500	NCA	Cylindrical
TLB7220	220*170*160	72	20	10.5	70-85	≥500	NCA	Cylindrical
TLB7230	305*185*155	72	30	14.5	70-85	≥500	NCA	Cylindrical
TLB7240	198*198*300	72	40	18.5	70-85	≥500	NCA	Cylindrical
TLB7270	580*160*190	72	70	30.5	70-85	≥500	NCA	Cylindrical

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PRODUCT CERTIFICATE

Through UL.201C, CE, UN38.3, CQC, ISO and other certifications, our products have obtained the passes to enter the international markets such as the United States, the European Union and the European Free Trade Zone,and provided technical support and guarantee to expand the international market.

SALES NETWORK

QUALITY ASSURANCE

Centered on products quality and always insisted on providing superior quality batteries for customers, we are committed to:

1. For your orders within the warranty period, we will take full responsibilities on the defects caused by material or production failure if any.

2. We will response to your failure report within 24 hours and give solutions at soonest, and provide necessary support as always.

Company website
www.songligroup.com

Alibaba store
www.songlibattery.en.alibaba.com

Global Sources
www.globalsources.com/songlibattery.co

Wechat official account
SONGLI-Battery

TCS SINCE 1995

About us

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