









Add: No.88 Qixin Road, NETDA, Nantong, Jiangsu, P.R. China, 226009

Tel: 86-0513-80100986 Email: sales@zttcable.com Http://www.zttcable.com



TELECOMMUNICATION LITHIUM BATTERY SOLUTIONS

ZTT NEW ENERGY INDUSTRY GROUP



ZTT **GROUP**

1992

Started in 1992 with fiber optic communication, now ZTT develops multi-industry deployment such as information communication, smart grid, new energy, submarine system, and new material

76 subsidies

Top **500** Enterprises in China

More than 16000 staff

Production bases in India, Brazil, Indonesia, Morocco, Turkey and Germany









Export to 160 ⁺ countries and regions



54 branch overseas offices

overseas market centers

Top 100 Electronic Information Enterprises in China Top 100 Electronic Original Enterprises in China

Top 10 Most Competitive Companies for Submarine Cable in the World

Top 500 Listed Companies in China by Market Value

Top 10 Most Competitive Companies in Cable Industry in China

10 Most Comprehensive Competitive Enterprises in Optical Communications Industry in China

More than 2000 ⁺ National Independent Intellectual Property Rights Patent Authorization

Top 100 Listed Companies on the Main Board of China

Most Competitive Companies for Optical Fiber and Cable in the World

Presided over and participated in the formulation of more than

370 industry, national and international standards

INDUSTRY LAYOUT





Zhongtian Energy Storage Technology Co., Ltd.

Established in 2012 with a registered capital of 1.48 billion yuan. ZEST focuses on the R&D, production and sales of Power Back-up, Large BESS, and Household Energy Storage System. Customized system integrated solutions can meet different demands of the customers. Annual Production Capacity of LFP Batteries: **8GWh**



SCIENCE AND TECHNOLOGY INNOVATION

First "Intelligent Manufacturing Demonstration Enterprise" in the Domestic Lithium Battery Industry by MIIT

- Has a National enterprise technology center, a post-doctoral research station and an enterprise research institute;
- Establish an innovative cooperation platform with 5 institutes of the Chinese Academy of Sciences;
- Establish a R&D cooperation platform with 6 national research institutes;
- Establish industry-university-research cooperation relationships with 15 domestic key universities, including Tsinghua University and Zhejiang University;
- Provide intellectual support and talent guarantee in terms of technology development, market development, and talent training.















Undertake National Innovation Projects

- Undertake 4 "863" national high-tech research projects;
- Undertake 6 national key research and development projects during the 13th Five-Year Plan period;
- Undertake 570 national, provincial and municipal technological innovation projects;
- Core products fill the domestic gap and replace imports.

国家重点研发计划 (智能电网技术与装备) 退役电池梯次利用系统示范应用和 梯次利用动力电池再退役标准研究

(执行期: 2018年7月-2021年6月)

(执行期: 2018年07月-2020年12月)

国家重点研发计划 (深海关键技术与装备) 全海深长距离光纤微缆关键技术研究及产品化

国家重点研发计划 (智能电网技术与装备)

超导直流限流器电阻限流单元设计和制造

(执行期: 2017年07月-2020年12月)

国家重点研发计划 (智能电网技术与装备) OPLC中间接续和终端接入技术 及其配套专用附件研制

(执行期: 2016年07月-2019年06月)

(智能电网技术与装备) ±500kV直流电缆及附件设计与制造关键技术 课题组

国家重点研发计划

(执行期: 2016年07月-2019年06月)

国家重点研发计划 (深海关键技术与装备) 全海深水密接插件产品化技术研究及示范应用 项目组

(执行期: 2018年07月-2020年12月)

国家重点研发计划 (深海关键技术与装备) 全海深ROV非金属铠装脐带缆 (执行期: 2017年07月-2020年12月)

国家重点研发计划 (智能机器人) 精细化水下目标视觉感知与测量 课题组 (执行期: 2019年12月-2022年11月)

PRODUCT CERTIFICATION

- Pass ISO9001, ISO14000, OHSAS18001 Three-standard System Certification, SA8000 Social Responsibility System Certification, TS16949 System Certification;
- Certified by authoritative organizations in Europe and America, with UL, CE, MSDS, UN38.3 and other Safety and Transportation Certifications; the products have passed various tests of the new national standard, and equipped with CNAS Laboratories.











































SMART WORKSHOP









HIGHLIGHT & ADVANTAGES

Product Highlight

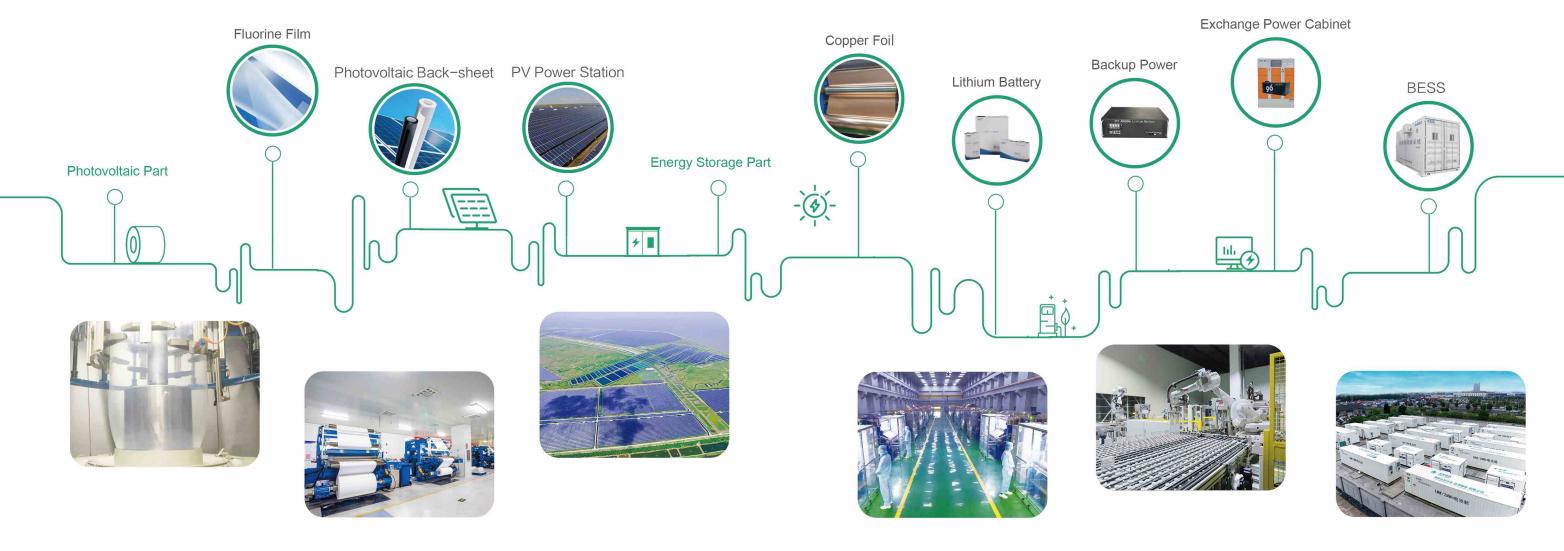
High Safety Using lithium iron phosphate materials to ensure the safety of positive part. Using ceramic coating technology to avoid physical damage and enhance the tolerance under thermal stability test.

Long Life Cycle Using conductive foil coating current collectors to improve the utilization of active materials in the cell and adhesion strength of electrodes. Combined with the good design, the cycle life is over 3000 times during 1C/1C charge-discharge cycles.

Good Consistency Strict control of temperature, humidity, and other environmental parameters in workshop. High standards of materials selection, preparation process, and requirements of equipment. First full automation production line of high capacity lithium-ion battery. Reduce the human influence at the maximum degree.

Strong Industrial Chain Advantage, Create Urban New Energy Operator

Deploy in the field of New Energy "Leaded by distributed photovoltaic, Supported by microgrid core technology, Key material development as breakthrough, and Energy storage system application as highlight". Provide customers with overall green energy solution, including Product design, Equipment manufacturing, Technical support, and Project service. ZTT is committed to be Urban New Energy Operator.



CELL PRODUCT



Prismatic LFP Cell Series

Item	Model 1	Model 2	Model 3	Model 4	Model 5	
Application		Power Backup			Energy Storage	
Cell Model	29173200	30148135	2770135-E/S	29173200	54174200	
Nominal Capacity	100Ah	50Ah	20/25Ah	105Ah	210Ah	
Nominal Voltage	3.2V	3.2V	3.2V	3.2V	3.2V	
IR	≤0.6mΩ	≤1.0mΩ	≤1.5mΩ	≤0.6mΩ	≤0.3mΩ	
Mass	~2150g	~1180g	~500g	~2150g	~4500g	
Rated Ratio	0.5C / 0.5C			1C / 1C		
Cycle life (25℃@100%DOD)	800~3000			>6(000	

48V Battery Pack Series

Туре	Model	Series	Spec.	Weight (kg)	Size W×D×H (mm)	Voltage range(V)
777.46	ZTT4820	15	48V 20Ah-2U	12±2	482 x 350 x 89±2	40.5-54
	2114020	16	51.2V 20Ah-2U	13	482 x 350 x 89±2	43.2-57.6
Power	Power Backup ZTT4850	15	48V 50Ah-3U	24±2	482 x 430 x 131±2	40.5-54
Backup		16	51.2V 50Ah-3U	30	442 (without hanger) x 400 x 133±2	43.2-57.6
	ZTT48100	15	48V 100Ah-3U	41±2	482 x 430 x 131±2	40.5-54
21146100	15	48V 100Ah-5U	41±2	482 x 400 x 222±2	40.5-54	

Туре	Model	Series	Rated voltage(V)	Rated capacity(Ah)	Charge mode	Voltage range(V)
	15	48	200		40.5-54	
	ZTT48200	16	48	200		43.2-57.6
Power	1 / 1 / 28 3 (1) (1)	15	48	300		40.5-54
Backup		16	48	300	CC-CV	43.2-57.6
		15	48	500		40.5-54
ZTT48500	16	48	500		43.2-57.6	

ZTT 48V50AH



Battery Module	ZTT 48V50AH		
Dimension	19" rack; 3U		
Weight	24 kg ± 2 kg		
Maximum charge voltage	54 V ± 0.2 V		
Charge voltage in floating mode	5152 V ± 0.2 V		
Final discharge voltage	40.5 V (adjustable)		
Rated charging current	0.2C (10 A, adjustable)		
Rated discharge current	0.5C (25 A, adjustable)		
Maximum discharge current	1C (50 A)		
Internal resistance	≤ 45 mΩ		
Working temperature	-20~+55°C		
Permissible humidity of the environment during storage	5% ~ 95%		
Self-discharge coefficient @ 25 °C (% / month)	≤3%		
Maximum number of parallel-connected battery	16		
Cycle life @ 0.2C, 80% DOD, 25°C	≥ 2 000 Cycles (≥80% SOC)		
Design life	>10 years		

ZTT 48V100AH



Battery Module	ZTT 48V100AH		
Dimension (W x D x H)	19" rack; 3U/5U		
Weight	41kg ± 2 kg		
Maximum charge voltage	54 V ± 0.2 V		
Charge voltage in floating mode	5152 V ± 0.2 V		
Final discharge voltage	40.5 V (adjustable)		
Rated charging current	0.2C (20 A, adjustable)		
Rated discharge current	0.5C (50 A, adjustable)		
Maximum discharge current	1C (100 A)		
Internal resistance	≤ 40 mΩ		
Working temperature	-20~+55°C		
Permissible humidity of the environment during storage	5% ~ 95%		
Self-discharge coefficient @ 25 °C (% / month)	≤3%		
Maximum number of parallel-connected battery	16		
Cycle life @ 0.2C, 80% DOD, 25°C	≥ 2 000 Cycles (≥80% SOC)		
Design life	>10 years		

ZTT 48V200AH



Battery Module	ZTT 48V200AH		
Dimension (W x D x H)	19" rack; 6U		
Weight	75.5kg ± 2 kg		
Maximum charge voltage	54.75 V ± 0.2 V		
Charge voltage in floating mode	5152 V ± 0.2 V		
Final discharge voltage	40.5 V (adjustable)		
Rated charging current	0.1C (20 A, adjustable)		
Rated discharge current	0.3C (60A, adjustable)		
Maximum discharge current	0.5C (100 A)		
Internal resistance	≤ 90 mΩ		
Working temperature	-20~+55°C		
Permissible humidity of the environment during storage	5% ~ 95%		
Self-discharge coefficient @ 25 °C (% / month)	≤3%		
Maximum number of parallel-connected battery	16		
Cycle life @ 0.2C, 80% DOD, 25°C	≥ 2 000 Cycles (≥80% SOC)		
Design life	>10 years		

GLOBAL REFERENCES

Our products have been exported to 4 continents -- Asia, Europe, America and Africa.

Asia: China; Japan; Bangladesh; Myanmar; Vietnam; India; Malaysia; Indonesia

Europe: Russia; Germany; Slovenia; Greece America: Peru; Brazil Africa: South Africa

