

About the Company

Zhongtian Energy Storage Technology Co., Ltd. (ZTTESTC) is a joint venture entity between Jiangsu Zhongtian Technology Co., Ltd. and Zhejiang Xinghai Energy Technology Co., Ltd with an initial capital of 100 million RMB and further increased to 200 million RMB. The research and development of Lithium-ion battery products and AC/DC power products was initiated from year 2008.

Global sales office and factories are both located in the Nantong Economic Trade Development zone with a mass land area of 106,672sq m and a built-in area of 78,5290sqm. With the additional injected investment of total 200 million RMB, the annual designed capacity could reach 100 million AH for the Lithium-ion battery. In line with the Global Green Energy concept, the used and wasted batteries could now be recycled and reproduced.

ZTTESTC operates under strict QS, EHS and OHS standards, striving to create premium graded international products; bringing monetary values with uncompromised standard in meeting customers' requirement.





Generic product for: electric charged motor bike, UPS/ EPS, energy storage device for power plant.



Product Superiority

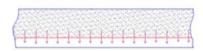
★ Equipped with the latest and high powered automation for power battery production line; improves consistency of quality of battery produced;

★ Unique safety device design (Patent no: ZL200520117303.8); Battery pack safety;

★ Using transverse drainage technology (Patent no: ZL 20101027935.X/ ZL200620107436.1) for improving the charge and discharge rate performance and enhancing longer battery cycle life.



Conventional vertical Drainage Technology with few tabs



Transverse Drainage Technology with no tabs

★ Employing most advanced conductive coating technology for Aluminium foil and continuous coating technology for battery separator to improve overall performance of the Li-ion battery.



The continuous ceramic coating technology for battery separator



Conductive Coating Technology

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The capacity retention rate is above 90% after 2000 cycles

Our R&D team is lead by a senior battery expert and a number of Doctors and Masters in the field. Conclusively, we have acquired more than 30 patents to the product and maintaining close partnership with Shanghai Jiao Tong University and Fu Dan University for latest invention, technology and product endorsement.





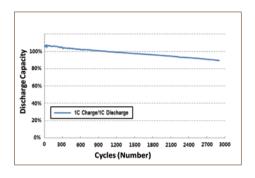


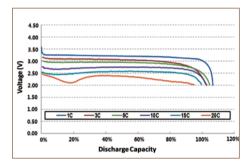


Products

Single cell







Technical parameters	3.2V 8Ah Power	3.2V 10Ah Energy	3.2V 50Ah	3.2V 100Ah
Dimension	φ38X120mm	φ38X120mm	φ63×219mm	φ76×306mm
Weight	300g	300g	1.5kg	Зkg
Nominal voltage	3.2V	3.2V	3.2V	3.2V
Max. charge voltage	3.65V	3.65V	3.65V	3.65V
Discharge cut-of voltage	2.5V	2.5V	2.5V	2.5V
Nominal capacity	8Ah	10Ah	50Ah	100Ah
AC impedance	≤2mΩ	≤3mΩ	≤1.5mΩ	≤1.0mΩ
Max. charge current	80A	30A	50A	100A
Continuous discharge current (max)	240A	200A	100A	200A
Operation temperature	-20~65°C	-20~65°C	-20~65°C	-20~65°C
Optimum storage temperature	-10~45℃	-10~45°C	-10~45°C	-10~45°C
Cycle life	6000 Cycles	3000 Cycles	3000 Cycles	3000 Cycles

Battery pack for Electric Charge Vehicle





Technical parameters	80V 60Ah	320V 100Ah	320V 200Ah	540V 300Ah
Nominal capacity	60Ah	100Ah	200Ah	300Ah
Nominal voltage	80V	320V	320V	540V
Rated energy	5kwh	32kwh	64kwh	160kwh
Max. output power(10S)	24kw	100kw	192kw	500kw
Rated current	60A	100A	200A	300A
Rated power	5KW	32KW	64KW	160KW
Allowed max. charge current	60A	100A	200A	300A
Max. charge voltage	88V	365V	365V	610V
Operation voltage range	60~88V	250~365V	250~365V	420~610V
Ambient temperature	-20°C∼65°C	-20°C∼65°C	-20°C∼65°C	-20°C∼65°C
Capacity range SOC%	10%~100%	10%~100%	10%~100%	10%~100%



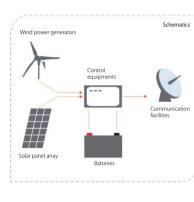
Battery pack for tele-communication devices and equipment













Technical parameters	48V 10Ah~50Ah	48V 200Ah	48V 300Ah	48V 500Ah		
Dimension	1~3U	18U	20U	33U		
Weight	9.5kg~35kg	150Kg	230Kg	370Kg		
Nominal voltage	48V					
Max. charge voltage	57.6V					
Discharge cut-off voltage	43.2V					
Nominal capacity	10Ah~50Ah	200Ah	300Ah	500Ah		
Internal resistance	≤50 mΩ	≤10 mΩ	≤10 mΩ	≤5 mΩ		
Rated charge current	0.2C					
Rated discharge current		1	С			
Operation temperature	-20~65°C					
Optimum storage temperature		-10~	∕45°C			
Cycle life	≥2000 Cycles					

Household energy storage system





Technical parameters		ZTT-1000 ZTT-2500		ZTT-5000	
	Voltage	48V	48V	48V	
	Capacity				
	Energy	2.5KWh 5KWh		10KWh	
Battery pack	Max. output current	50A	50A	100A	
	Charge current	10A	20A	40A	
	Operation temperature	−10°C~45°C			
	Input frequency range	50Hz/60 Hz			
	Output voltage	220Vac/ 110Vac (±5%)			
	Output frequency	50Hz/60Hz(±1%)			
Sustem sutput	Output power	1KW	2.5KW	5KW	
System output	Waveform distortion	Linear load≤ 3%			
	PV-AC conversion time				
	Conversion efficiency	≥85%			



Wind & PV Energy Storage System on/off Grid



Technical Parameters	Engergy		Power				
Nominal discharge power	250kW	500kW	1MW	500kW	1MW	2MW	
Energy storage capacity	500KWh	1MWh	2MWh	250KWh	500KWh	1MWh	
Rated grid voltage		380V	/ 220V (480V / 22	[/] 220V)			
Permissible grid voltage	85%~110% Rated volt			ltage			
Nominal grid frequency	50Hz / (60Hz)						
Frequency range	48.5~50.5Hz / (59~60.5Hz)						
Connection method	3 phase 4 line						
Voltage total harmonic distortion	<3%						
Current harmonic wave distortion	<4.5%						
System efficiency		≥ 90%	Total system e	fficiency			
Cooling-down method		Force	d-air cooling				
Operation temperature	-20°C~60°C						
Optimum storage temperature	-10°C~45°C						
Permissible relative humidity		< 90%	No condensation	1			
Installation		Outdo	or installation(20-	~40 ft Container)			
Cycle life	≥3000 Cycles (< 70% capacity)						

* Adjust according to customer requirement

R&D Center

We possess a state of the art R&D center. Equipped with a full range of advanced analytical instruments, slot die coater and ceramic coating equipment with certified calibration by 3rd party experts.



Scanning electron microscopy





X-Ray diffractometer

Laser particle analyzer



Inductive coupled plasma emission spectrometer



High depth of field microscopy



Electrochemical workstation

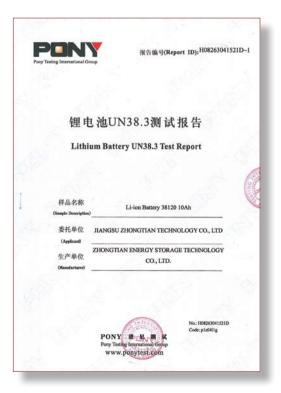


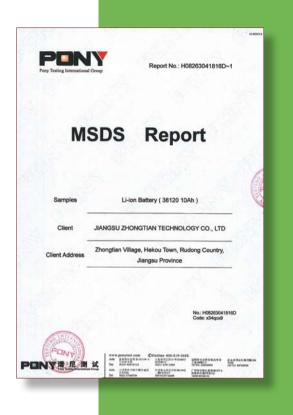
The pilot experimental equipment





Pony Testing Intern	A CALL AND A
	CERTIFICATE
	Of Conformity EC Council Directive 2004/108/EC Electromagnetic Compatibility
Report No.: H08	263040424D~1
Applicant	: JIANGSU ZHONGTIAN TECHNOLOGY CO.,LTD
Address	: B# ZHONGTIAN ROAD, NANTONG ECONOMIC & TECHNOLOGICAL DEVELOPMENT AREA, JIANGSU,P.R.
Sample Name	: Li-lon battery
MN	: 38120 10Ah
Standards	: EN6100-6-1: 2007 EN6100-6-3: 2007+A1:2011
in conformity with applicant of the or	d documentation are at the applicant's deposal. The is to entity that the tested sample is a provision of Annual To is occurring theorem 2004/05/CF, entitotate is authorized to use the IBC. The entitotate is authorized to use the BIC. The entitiest is authorized to use the sentiticate in connection with the EC declaration of g to Annual N of the Directive. Existent by Checked by: Single Ni, Approved By: Checked by: Single Ni, Approved By: Date: August 28, 2013
The CE Marking m	ay only be used if all relevant and effective EC Directive are complied with.
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	Pony Testing Internatio	nal Group		
	Test Report	No.: H08013027104D~1	Date: Aug 07, 2013	Page 1 of 3
	Applicant: Address	JIANGSU ZHONGTIAN TECHN	IOLOGY CO.,LTD ING ECONOMIC&TECHNOLOGIC	
		DEVELOPMENTAREA, JIANGS		AL
	The following sample(s)	was/were submitted and identified	on behalf of the client as	
	Sample Name:	Li-ion battery	on period of the telefit as:	
	Sample Models	38120 10Ah		
	Manufacturer	ZHONGTIAN ENERGY STORA	GE TECHNOLOGY CO., LTD.	
	Sample Description:	Li-ion battery 38120 10Ah		
	Sample Received Date:	Aug 01, 2013		
	Testing Period:	Aug 01, 2013 To Aug 07, 2013		· · ·
1	Reference Requested:	Directive 2006/66/EC		13
t	Reference Method:	(1) Lead Analysis is performed b		E.
		(2) Cadmium Analysis is perform		1-2
		(3) Mercury Analysis is performe	d by ICP-OES	
	Testing Results.	Please refer to next page(s)		
	Approved by:			
	Approved by:	me	Code: e3w	7k
	O INTERA			
	E garage	www.ponytest.com @1	Totline 400-819-5688	
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ZTT CABLE



ZTT is a leading and global manufacturer of cable systems, which provides package solutions for telecommunication and power applications around the world. With its rich heritage of highly advanced R&D results, ZTT owns the cutting-edge technology within the industry.

ZTT was established in 1992 and became a listed company in 2002. To present day, ZTT has developed well into a Group Company with 32 subsidiaries within China, including two overseas factories in India and Brazil. Our products are widely used in telecommunication industry, power transmission industry, mining cable industry, marine and submarine cable industry, railway industry, and many other industries.

ZTT commits to be a market-oriented entity in meeting clients' needs and providing viable solutions with innovative product designs. ZTT guarantees its product with high-end engineering capabilities and life cycle maintenance services.