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# 检测报告 UN38.3

Name of sample:	Lithium-ion Battery PACK
产品名称:	锂离子电池组
Model/型号规格:	LFPWall-10K-V2
Client:	Anhui LEAD-WIN New Energy Technology Co., Ltd
委托单位:	安徽领域新能源科技有限公司
Classification:	Commission Test
检测类别:	大瀬 7im Si 委托测试 大瀬 7im Si 委托测试

## Shenzhen Tiansu Calibration and Testing Co., Ltd

深圳天溯计量检测股份有限公司

Shenzhen Tiansu Calibration and Testing Co.,Ltd 深圳天溯计量检测股份有限公司

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Trop: No.: TOLLEGOOD T TOO NOT	1 age 27 To 1 age.
Name of samples: Lithium-ion Battery PACK	Trade mark: -
样品名称:锂离子电池组	商标:
Commissioned by: Anhui LEAD-WIN New Energy Technology Co., Ltd 委托单位: 安徽领域新能源科技有限公司	Commissioner address: No.8-5 Shushan International Business Association, Liando U Valley, No.1499 Zhenxing Road, Shushan District, Hefei City, Anhui Province, China 230061 委托单位地址: 中国安徽省合肥市蜀山区振兴路 1499 号联东 U 谷蜀山国际企业港 8-5 号 230061
Manufacturer by: Eyacht Energy., LTD. 制造单位: 合肥华字智航动力能源有限公司	Manufacturer address: Yinrui Technology Park,Chuangxin Avenue,High-tech District,Hefei,Anhui Province 制造单位地址: 安徽省合肥市高新区创新大道银瑞科技园
Manufacturer's Contact Information	Manufacturer's Web Site
制造商联系信息 <b>:</b>	制造商网址:
Phone: 13666547866 Email: 214528311@qq.com	https://huayusmart.en.alibaba.com/
Type/Model	Shape: Approximate Cuboid
型号规格: LFPWall-10K-V2	样品形状: 近长方体
Appearance color: Black and White	Sample size
样品颜色: 黑白杂色	样品尺寸: L(790mm)* W(586mm)*H(197mm)
Rated info.	Cell quantity
额定信息: 51.2V/204Ah/10.44kWh	组成电芯数量: 32PCS
Quantity of sample: 30cells+8batteries	Cell model
样品数量: 30 个电芯+8 个电池	电芯型号: IFP50160116A-102Ah
Limited charge voltage	Cut-off voltage
充电限制电压: 58.4V	放电截止电压: 43.2V
Standard charge current	Max continuous charge current
标准充电电流: 140A	最大持续充电电流: 150A
Standard discharge current	Max continuous discharge current
标准放电电流: 140A	最大持续放电电流: 150A
Receiving date	Sample identification
接样日期: 2022.06.08	样品标识序号: B01#~B08#,C01#~C30#
Completing date	Test item: 8 items
完成日期: 2022.06.18	测试项目: 8 项

#### Test conclusion:

检测结论:

The Lithium-ion Battery PACK submitted by Anhui LEAD-WIN New Energy Technology Co. Lite are lested according to Section 38.3 of The Seventh Revised Edition of the United Nations Recommendations on the Transport of Pangerous Goods, Manual of Test and Criteria (ST/SG/AC.10/11/Rev.7/Section38.3). The test results comply with the calculate requirements of the standard.

由安徽领域新能源科技有限公司送检的锂离子电池组,依据联合国《关于危险货物运 七修订版第38.3节进行检测,测试结果符合标准相关要求。

Date of issue: Sept. 24, 202

签发日期: 2022 年 091月3

批准 Approved by 段江涛

审核 Reviewed by

Tested by

徐志龙

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### Description and illustration of the sample:

#### 样品说明及描述:

上四儿外及油灰	•	ta	
Test item 测试项目	Sample No. 样品编号	State 状态	Remark 备注
T.1~T.5	B01#~B02#	at first cycle in fully charged states; 在第一个循环完全充电;	Battery
1.1~1.5 F. VAR 71an Su	B03#~B04#	after 25 cycles ending in fully charged states; 在第二十五个循环完全充电;	电池
	C01#~C05#	at first cycle at 50% of the design rated capacity; 在第一个循环充电 50%的额定容量;	Cell
T.6	C06#~C10#	after 25 cycles ending in fully charged at 50% of the design rated capacity; 在第二十五个循环充电 50%的额定容量;	电芯
T.7	B05#~B06#	at first cycle in fully charged states; 在第一个循环完全充电;	Battery
1.7 美潮	B07#~B08#	after 25 cycles ending in fully charged states; 在第二十五个循环完全充电;	电池
T.8	C11#~C20#	at first cycle in fully discharged states; 在第一个循环完全放电;	Cell
T.O Min Min Su	C21#~C30#	after 25 cycles ending in fully discharged states; 在第二十五个循环完全放电;	电芯

#### Description of the sampling procedure:

取样程序的说明:

/

#### Description of report revision:

报告修订的说明:

The report data is quoted from TSZ22060047-P02-R01, This sample and original report TSZ22060047-P02-R01 sample is the same sample, Only the applicant is different.

该报告数据引用于报告 TSZ22060047-P02-R01,此样品和原报告 TSZ22060047-P02-R01 样品为同一样品,仅申请商不同

#### Remarks:

备注:

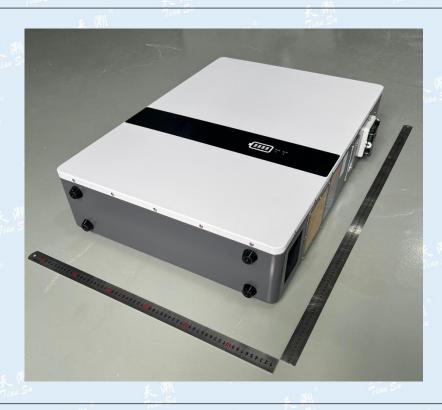
The Lithium-ion Battery PACK by Anhui LEAD-WIN New Energy Technology Co., Ltd are large batteries.

由安徽领域新能源科技有限公司所送的锂离子电池组是大电池。



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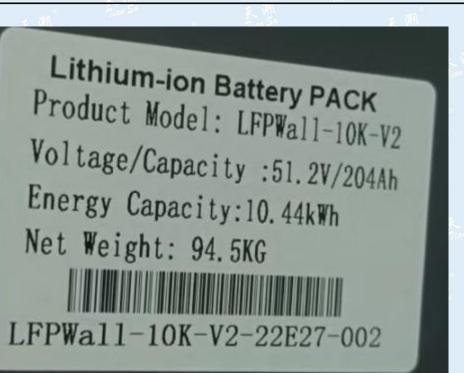
# Photos of Battery\电池图片







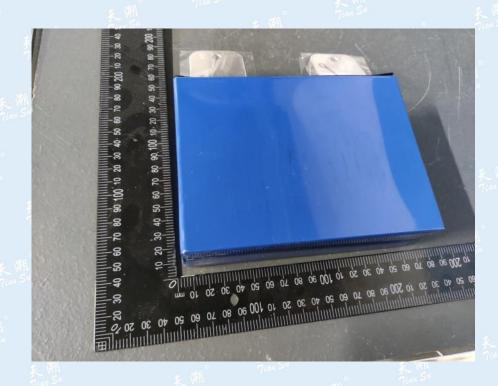
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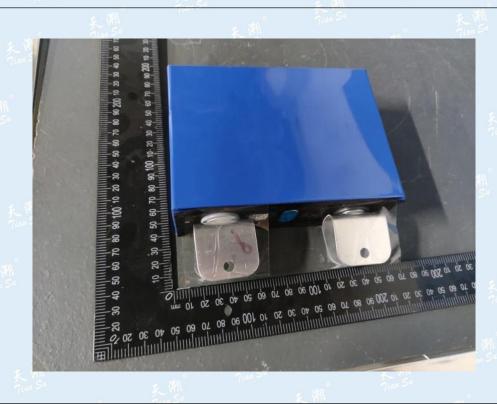




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### Photos of Cell\电芯图片





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38.3.4	Procedure/测记	式步骤				天湖	_
天棚。	Test 1: Altitud	le simulation/	测试 1: 高度模	拟	天湖	Tran-"	
	at ambient tem	nperature (20°	C <b>±5℃)</b> .		6kPa or less for a Pa 的环境中贮存	at least six hour 不少于 6 个小时。	
	Requirement/	示准要求:	Z II		主渊。	7ian Su	
38.3.4.1	1.Cells and ba 样品质量损		oss limit: ≤0.1%	· 美潮		<b>天</b> 潮	P
天湖 Tian Su	applicable to	n circuit voltage not less than 90%, The requirement relating to voltage is not icable to test cells and batteries at full discharged states. 试验后开路电压应不低于试验前开路电压的 90%,此要求不适用于完全放完电的电池,芯。eakage, no venting, no disassembly, no rupture and no fire. (电池)应无漏液、无排气、无解体、无破裂以及无着火现象的发生。					
	100					Su 天湖 Tian Su	天讲 Tians
	3.No leakage,					54 大瀬 7ian 5a	天 in Tian S Tian S 天 in Tian Su Tian Su
Sample No.	3.No leakage, 样品(电池) Result	应无漏液、无 e Test	上排气、无解体、 After			Residual OCV	Test result
Sample No. 样品编号	3.No leakage, 样品(电池) Result 测试结果 Before	应无漏液、无 e Test	上排气、无解体、 After	无破裂以及无	着火现象的发生。	之 網 7ias Su	Test result 测试结别
No.	3.No leakage, 样品(电池) Result 测试结果 Before 测试	应无漏液、无 e Test ci前 Voltage	After 测i	无破裂以及无 Test 式后 Voltage	着火现象的发生。 Mass loss	Residual OCV	result
No. 样品编号	3.No leakage, 样品(电池) Result 测试结果 Before 测试 Mass 样品质量 (kg)	P Test No Voltage 开路电压(V)	After 別i Mass 样品质量(kg)	无破裂以及无 Test 式后 Voltage 开路电压(V)	着火现象的发生。 Mass loss 质量损失(%)	Residual OCV 剩余电压(%)	result 测试结身
No. 样品编号 B01#	3.No leakage, 样品(电池) Result 测试结果 Before 测试 Mass 样品质量 (kg) 94.045	D 应无漏液、无 Test 式前 Voltage 开路电压(V) 54.414	After 测i Mass 样品质量(kg) 94.045	无破裂以及无 Test 式后 Voltage 开路电压(V) 54.387	着火现象的发生。 Mass loss 质量损失(%) 0.00	Residual OCV 剩余电压(%) 99.95	result 测试结身 P

Other supplements: Test result "P" decides that the test item passes.

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38.3.4	Procedure/测	试步骤					
<b>天</b> 谢	Test 2: Therr	mal test/测试 2	: 温度测试		<b>毛</b> 獭	-7can Sil	
	72℃±2℃, foll ±2℃, The ma procedure is t batteries are t 将电芯和电池 件下贮存不少	lowed by storag ximum time int to be repeated to be stored for 在温度为 72℃: 于6个小时,两	ge for at least si erval between t until 10 total cy 24 hours at am ±2℃的条件下贮	x hours at a terest temperaturates are completed bient temperates 存不少于 6 个局最长为 30min	st temperature e e extremes in 30 ete, after which a ture (20℃±5℃). 小时,然后,在泊	minutes, This all test cells and	天瀬 7ian Su M can Su
38.3.4.2	Requirement/ 1.Cells and ba 样品质量损	atteries Mass lo	oss limit: ≤0.1%	天網 7ian St	Tian 5"	天洲 7can S 1.Su	P
	applicable t 样品试验后 和电芯。 3.No leakage	o test cells and 开路电压应不作 , no venting, no	l batteries at ful 氐于试验前开路 o disassembly, r	I discharged st 电压的 90%,此 no rupture and	要求不适用于完	全放完电的电池	Tian S 天開 Tian Su
	Result 测试结果	7ian Su	<b>文</b> 潮	天朝 7iau Su	<b>秦</b>	州 n Sa	50 天 <sup>‡</sup>
Sample No.		e Test 式前	After 测记	Test 式后	Mass loss	Residual OCV	Test result
样品编号	Mass 样品质量 (kg)	Voltage 开路电压(V)	Mass 样品质量(kg)	Voltage 开路电压(V)	质量损失(%)	剩余电压(%)	测试结果
B01#	94.045	54.387	94.045	54.110	0.00	99.49	Р
B02#	94.043	55.139	94.043	54.880	0.00	99.53	Р
B03#	94.048	55.345	94.048	55.101	0.00	99.56	Р
77.1	94.049		94.049	3		584A	Control of the Contro

Other supplements: Test result "P" decides that the test item passes.

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38.3.4	Procedure/测	试步骤					ian >" —
天湖	Test 3: Vibra	tion/测试 3:振	动 7000 54		<b>美洲</b>	71 an 2" - 189	* 1
	distorting the be a sinusoid Hz traversed each of three 将电芯和电池加至 200Hz,	cells in such a lal wave form win 15 minutes, mutually perpe	manner as to fa ith a logarithmic This cycle shall endicular mount 表动台的台面上, 到 7Hz 为一个循	aithfully transmi c sweep betwee be repeated 12 ing position of t ,然后开始振动 环,一个循环机	n 7 Hz and 200 l 2 times for a total	ne vibration shall Hz and back to 7 of 3 hours for 形式,以 7Hz 增	天湖 Tian Su ian Su
38.3.4.3  ********************************	样品质量指 2.Open circuitapplicable 样品试验后 和电芯。 3.No leakage	atteries Mass lo 损失≤0.1%. it voltage not les to test cells and 行开路电压应不值	ss than 90%, Th l batteries at ful 氐于试验前开路 o disassembly, r	ne requirement Il discharged sta 电压的 90%,此 no rupture and i	要求不适用于完全	È放完电的电池	P 天湖 Tian Su Tian Su
	Result 测试结果	7000	天潮。 511	7ian Su	来 7ia	) (5)	天讲 Tian S
			A C1		154	2 11	
Sample	Befor 测	d 試前		r Test 试后	Mass loss	Residual OCV	Test
Sample No. 样品编号		3			Mass loss 质量损失(%)	Residual OCV 剩余电压(%)	Test result 测试结果
No.	测i Mass	试前 Voltage	测 i Mass	试后 Voltage			result
No. 样品编号	Mass 样品质量 (kg)	试前 Voltage 开路电压(V)	测i Mass 样品质量(kg)	试后 Voltage 开路电压(V)	质量损失(%)	剩余电压(%)	result 测试结果
No. 样品编号 B01#	测 Mass 样品质量 (kg) 94.045	以前 Voltage 开路电压(V) 54.110	测i Mass 样品质量(kg) 94.045	试后 Voltage 开路电压(V) 54.045	质量损失(%)	剩余电压(%)	result 测试结果 P

Other supplements: Test result "P" decides that the test item passes.

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38.3.4	Procedure/测	试步骤					_
天湖	Test 4: Shock	k/测试 4: 冲击	Y VIII 7ian Su		天湖。	71.01 5" - 31A	2
	to a half-sine smaller) and psubjected to a smaller) and pthree shocks ithree mutually 以稳固的托架	shock of peak a pulse duration of half-sine of per pulse duration of in the positive of perpendicular 固定住每个电芯 中的较小值)的	acceleration of of 6 millisecond at acceleration of 11 millisecond direction follower mounting posits 和电池样品的	150g <sub>n</sub> (or Accel s, large cells an of 50g <sub>n</sub> (or Acc ds. Each cell or ed by three shoot ions of the cell of 全部配件表面。 转撞击,脉冲持续	eration(gn)= \( \sum_{m}^{\text{log}} \) and large batteries believed bettery shall be bettery shall be bettery for a to be be bettery for a to be be bettery for a to be be bettery for a to be bettery for a to be	shall be (miss), which is subjected to we direction of otal of 18 shocks. 也以峰值为 150gn	天開 Tian Si 彌 Jan Su
38.3.4.4	每个电池或电	Self EX (Exchange)	相垂直的电池		续时间 11 毫秒的向经受三次冲击,	7半正弦波冲击。 接着在反方向经	P 天湖 Tian S
	Requirement/ 1.Cells and ba 样品质量损	atteries Mass Io	oss limit: ≤0.1%	HA Sa			- MA
	2.Open circuit applicable t	voltage not les o test cells and	batteries at ful	l discharged sta	relating to voltag ates. 要求不适用于完全		Fian Su
	2.Open circuit applicable t 样品试验后 和电芯。 3.No leakage,	t voltage not les o test cells and 开路电压应不作 no venting, no	batteries at ful 氐于试验前开路 disassembly, r	l discharged sta 电压的 90%,此 no rupture and r	ates. 要求不适用于完全	è放完电的电池 ↑	天 MA 7ian Sa 1 1
· 天渊 7ian 5i 天渊	2.Open circuit applicable t 样品试验后 和电芯。 3.No leakage,	i voltage not les o test cells and 开路电压应不作 no venting, no )应无漏液、无	batteries at ful 氐于试验前开路 disassembly, r	l discharged sta 电压的 90%,此 no rupture and r	ates. 要求不适用于完全 no fire.	è放完电的电池 ↑	天 MA 7ian Su i i · ·
Sample	2.Open circuit applicable t 样品试验后 和电芯。 3.No leakage, 样品(电池 Result/测试结	i voltage not les o test cells and 开路电压应不作 no venting, no )应无漏液、无 f果 e Test	batteries at ful 纸于试验前开路 disassembly, r .排气、无解体、	l discharged sta 电压的 90%,此 no rupture and r	ates. 要求不适用于完全 no fire.	è放完电的电池 ↑	Test
Sample No. 样品编号	2.Open circuit applicable t 样品试验后 和电芯。 3.No leakage, 样品(电池 Result/测试结	i voltage not les o test cells and 开路电压应不作 no venting, no )应无漏液、无 f果 e Test	batteries at ful 纸于试验前开路 disassembly, r .排气、无解体、	I discharged sta 电压的 90%,此 no rupture and r 无破裂以及无	ates. 要求不适用于完全 no fire. 着火现象的发生。	全放完电的电池 7mm S 7mm S	Test result 测试结果
No.	2.Open circuit applicable t 样品试验后 和电芯。 3.No leakage, 样品(电池 Result/测试结 Before 测证	i voltage not les o test cells and 开路电压应不作 no venting, no )应无漏液、无 f果 e Test 式前	batteries at ful 纸于试验前开路 disassembly, r 排气、无解体、 After Mass	I discharged sta 电压的 90%,此 no rupture and r 无破裂以及无 r Test 式后 Voltage	ates. 要求不适用于完全 no fire. 着火现象的发生。 Mass loss	放完电的电池 Residual OCV	result
No. 样品编号	2.Open circuit applicable t 样品试验后 和电芯。 3.No leakage, 样品(电池 Result/测试结 Before 测证 Mass 样品质量 (kg)	i voltage not les o test cells and 开路电压应不作 no venting, no )应无漏液、无 f.果 e Test 式前 Voltage 开路电压(V)	batteries at ful 纸于试验前开路 disassembly, r 选排气、无解体、 Afte 测 Mass 样品质量(kg)	I discharged sta 电压的 90%,此 no rupture and r 无破裂以及无 Test 式后 Voltage 开路电压(V)	ates. 要求不适用于完全 no fire. 着火现象的发生。 Mass loss 质量损失(%)	Residual OCV 剩余电压(%)	result 测试结果
No. 样品编号 B01#	2.Open circuit applicable t 样品试验后和电芯。 3.No leakage,样品(电池 Result/测试结 Before Mass 样品质量(kg) 94.045	i voltage not les o test cells and 开路电压应不作 no venting, no )应无漏液、无 f果 e Test 式前 Voltage 开路电压(V) 54.045	batteries at ful 纸于试验前开路 disassembly, r 土排气、无解体、 After 测量 Mass 样品质量(kg) 94.045	I discharged sta 电压的 90%,此 no rupture and r 无破裂以及无 r Test 式后 Voltage 开路电压(V) 53.986	mass loss 质量损失(%)	Residual OCV 剩余电压(%)	result 测试结果 P

Other supplements: Test result "P" decides that the test item passes.

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38.3.4	Procedure/测试步骤		<b>天潮</b> -
天 洲	Test 5: External shor	t circuit/测试 5:外部短路	Team 5
7 100 Su	temperature reaches 5 circuit condition with a circuit condition is cont temperature has return hour for the test to be 保持试验环境温度稳定 此温度下,将其正负极	e tested shall be temperature stabilized so th $57$ °C±4°C and then the cell or battery shall be total external resistance of less than 0.1 ohm tinued for at least one hour after the cell or baned to $57$ °C±4°C, the cell or battery must be occoncluded.  在 $57$ °C±4°C, 以使电芯或电池样品外表温度过1小于 0.1 欧姆的线路短接, 待电芯或电池的外,对电芯或电池必须进一步观察 6 个小时才能	subjected to a short at 57℃±4℃, This short attery external case bserved for a further six 达到 57℃±4℃, 然后, 在 表温度恢复到 57℃±4℃
	170℃; 电芯或电池的外壳温 2. No disassembly, no	neet this requirement if their external tempera	大網 Tian Su
	Result 测试结果	天湖 7ian Su 7ian Su	Tian Su
Sample No. 样品编号	天湖。 天湖 7ian 5u	Max External Temp 样品表面最高温度(℃)	Test result 测试结果
B01#	天 湖	57.2	₹∰ P
B02#	之	58.3	K WAY Tran Sa
B03#	天湖	7 can 5 th 7 can 5 th 7 can 5 th	天 <sup>物</sup> P

Other supplements: Test result "P" decides that the test item passes.

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38.3.4	Procedure/测试步骤	_
2 M	Test 6: Crush\Impact/	
	测试 6: 挤压(适用)	A
	<b>撞击(不适用)</b>	
	Crush	
	挤压	1000
	A cell or component cell is to be crushed between two flat surfaces. The crushing is to be gradual with a speed of approximately 1.5 cm/s at the first point of contact. The crushing is to be continued until the first of the three options below is reached.	上湖 Lan Su
	(a) The applied force reaches 13kN±0.78kN;	6
	(b) The voltage of the cell drops by at least 100 mV;	M
	(c) The cell is deformed by 50% or more of its original thickness.	2
	Once the maximum pressure has been obtained, the voltage drops by 100mV or more, or the cell is deformed by at least 50% of its original thickness, the pressure shall be released	. 70
	电池芯或组成电池芯在两个平面间挤压。挤压在第一个接触点以约 1.5cm/s 的速度慢慢进行,直到下面三个选项之一达到为止:	Alexandra Control
	(a)作用力达到 13kN±0.78kN;	F MIL
	(b)电池芯电压降至少达到 100mV;	2,500
	(c)电池厚度和最初比较变形至少 50%。	
	一旦达到最大压力, 电压降超过 100 mV 或者电池芯变形超过 50%, 压力应该解除。	₩ . <u> </u>
	Impact 7 cm 5 d 7 m 5 d	3
	撞击 7/102 5 <sup>20</sup>	7
.3.4.6	(applicable to cylindrical cells not less than 18mm in diameter)	Р
	The sample cell or component cell is to be placed on a flat smooth surface. A 15.8 mm ± 0.1 mm diameter, at least 6 cm long, or the longest dimension of the cell, whichever is greater, Type 316 stainless steel bar is to be placed across the centre of the sample. A 9.1 kg ± 0.1 kg mass is to be dropped from a height of 61cm ± 2.5 cm at the intersection of the bar and sample in a controlled manner using a near frictionless, vertical sliding track or channel with minimal drag on the falling mass. The vertical track or channel used to guide the falling mass shall be oriented 90 degrees from the horizontal supporting surface.	
	The test sample is to be impacted with its longitudinal axis parallel to the flat surface and perpendicular to the longitudinal axis of the 15.8 mm ± 0.1 mm diameter curved surface lying across the centre of the test sample. Each sample is to be subjected to only a single impact.	
	Cells and component cells meet this requirement if their external temperature does not exceed 170°C and there is no disassembly and no fire during the test and within six hours after this test.	Tian S
	(适用于直径不小于 18 毫米的圆柱形电池)将电池或元件电池样品平放在一个平面上,其纵车平行于测试台面年,将一直径为 15.8 mm ± 0.1 mm 的 316 型不锈钢棒横放在电池中心位置然后,将一质量为 9.1 kg ± 0.1 kg 的物体从 61cm±2.5 cm 的高度落向样品。样品在进行试验时,其外表温度应不超过 170℃。且试验结束后 6 个小时之内,样品应无解体、无起火现象发生。	50 2
	Requirement/标准要求:	
	1.Cells and component cells meet this requirement if their external temperature does not exceed 170℃; 电芯的外壳温度应不超过 170℃;	天讲 Tian S
	2. No disassembly, no fire during the test and within six hours after this test.	M.S.
	试验后6小时内无解体、无起火。	

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	Result 测试结果	天例 7ian Su Xian Su 7ian Su	7ian⊃ <sup>n</sup> ≸
Sample No. 样品编号	OCV prior to test 试验前电压(V)	Max External Temp 样品表面最高温度(℃)	Test result 测试结果
C01#	3.278 Jun Su	24.1	P-VA Tian Su
C02#	3.281 × W	23.7 23.7 7ia 54	Р
C03#	3.275	24.4	Р
C04#	3.266	23.9 KM	Р
C05#	3.255	24.3	Р
C06#	3.268	23.6	Р
C07#	3.245 Jan Su	23.6	Pian Su
C08#	3.257 3.257	24.8	Р
C09#	3.276	23.4	7P
C10#	3.279 £ Wh	23.6 Jun Su	Р

#### Other supplements:

Test result "P" decides that the test item passes.

其他补充:

测试结果"P"代表判定该测试项目通过。

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38.3.4	Procedure/测试步骤	_
天概	Test 7: Overcharge/测试 7: 过度充电	7249
38.3.4.7 M	When the manufacturer's recommended charge voltage is not more than 18V, the minimular voltage of the test shall be the lesser of two times the maximum charge voltage of the or 22V, whichever is less. When the manufacturer's recommended charge voltage is more than 18V, the charging voltage of the test shall be 1.2 times maximum charge voltage. The charging current is 2 times of the maximum charging current recommended by the manufacturer.  如果厂家推荐的充电电压不超过 18V, 本测试的最小充电电压应该是两倍的厂家标定最大电电压或者是 22V, 取其中较小者。如果厂家推荐的充电电压超过 18V, 充电电压应该为	he he
	倍的厂家标定最大充申申压、充申申流为厂家推荐的最大充申申流 2 倍	
	倍的厂家标定最大充电电压。充电电流为厂家推荐的最大充电电流 2 倍。  Requirements/标准要求:  No disassembly and no fire during the test and within seven days after the test.	F.V
	Requirements/标准要求: 7 m 5 m	天 Tian 天 獺 Tian Sa
Sample No. 样品编号	Requirements/标准要求: No disassembly and no fire during the test and within seven days after the test. 试验样品在试验中和试验后 7 天内,应无解体和无起火现象发生。  Result	Test resul 测试结果
<u>-</u>	Requirements/标准要求: No disassembly and no fire during the test and within seven days after the test. 试验样品在试验中和试验后 7 天内,应无解体和无起火现象发生。  Result 测试结果  OCV prior to test	ian -
样品编号	Requirements/标准要求: No disassembly and no fire during the test and within seven days after the test. 试验样品在试验中和试验后 7 天内,应无解体和无起火现象发生。  Result 测试结果  OCV prior to test 试验前电压 (V)	测试结果
样品编号 B05#	Requirements/标准要求: No disassembly and no fire during the test and within seven days after the test. 试验样品在试验中和试验后 7 天内,应无解体和无起火现象发生。  Result 测试结果  OCV prior to test 试验前电压 (V)  54.414	测试结果 P

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38.3.4	Procedure/测试步骤  Test 8: Forced discharge/测	试 8: 强制放申	7(a+ 2**	大型, 毛潮	
7 can Su 7 can Su 38.3.4.8	Each cell shall be forced disch a 12V D.C power supply at an specified the manufacturer Th a resistive load of the appropri be forced discharged for a tim initial test current(in ampere). 在 20℃±5℃的环境温度下,将	narged at ambin initial current the specified distributed size and rate interval(in hotel)	ent temperature equal to the ma charge current ating in series v ours) equal to its	e by connecting it in series with aximum discharge current is to be obtained by connecting with the test cell, Each cell shall s rated capacity divided by the 电源上进行强制放电,此直流电电时间为额定容量除以初始电流。	Tian S  Tian S  P
	Requirements/标准要求: No disassembly and no fire du 试验样品在试验中和试验后 7	- 4		25 22	天 请 Tian S
	Result 测试结果	- M	天湖 Tian Sa	7ian 5" 東開 7ian 5u	F. Will Tian Su
Sample No. 样品编号	OCV prior to test 试验前电压(V)	Test result 测试结果	Sample No. 样品编号	OCV prior to test 试验前电压(V)	Test resul 测试结果
	54 0.000	Р	C21#	2.903	Р
C11#	2.929	7;an 5"	(A)		
C11#	2.929	P (	C22#	2.891	Р
美 VIII	2 31	Mian 2"	. 8 71an	2.891	P Pu
C12#	2.906	P	C22#	- A M	- 35A
C12# C13#	2.906 2.894	P P	C22#	2.876	F. P.
C12# C13# C14#	2.906 2.894 2.908	P P	C22# C23# C24#	2.876 2.947	P
C12# C13# C14# C15#	2.906 2.894 2.908 2.931	P P P	C22# C23# C24# C25#	2.876 2.947 2.851	P P
C12# C13# C14# C15# C16#	2.906 2.894 2.908 2.931 2.919	P P P	C22# C23# C24# C25# C26#	2.876 2.947 2.851 2.901	P P P
C12# C13# C14# C15# C16# C17#	2.906 2.894 2.908 2.931 2.919 2.929	P P P P	C22# C23# C24# C25# C26# C27#	2.876 2.947 2.851 2.901 2.879	P P P

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### **STATEMENTS**

声明

- 1. The test report is invalid without the official stamp of Tiansu. 本报告无检测单位印章无效。
- 2. This report shall not be copied partly without the written approval of Shenzhen Tiansu Calibration and Testing Co.,Ltd.

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- 5. Objections to the test report must be submitted to Tiansu within 15 days. 对检测报告若有异议,应于收到报告之日起十五天内向检测单位提出。
- 6. The test report is valid for the tested samples only. 本报告仅与送检样品有关。