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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-2500
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 7 ^{101 St} 委托测试 大 ^浦 7 ^{101 St}

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

B/1,4, NO.2 Jinlong Road, Longgang District, Shenzhen, China

深圳市龙岗区宝龙街道锦龙大道2号1栋、4栋

Web: www.tiansu.org E-mail: tsjc@tiansu.org Tel: 0755-89457984



UN38.3



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10p: 10::10222000054-101-101	1 age 2 / 10 1 ages
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: 合肥华宇智航动力能源有限公司	Manufacturer address: 2nd Floor, Building1,Yinrui Technology Park, Chuangxin Avenue No.90, 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 90 号银瑞科技园 1 号楼 2 楼
Manufacturer's Contact Information 制造商联系信息: Phone:13666547866 Email:214528311@qq.com	Manufacturer's Web Site 制造商网址:
Type/Model	shape: Prismatic
型号规格: LFPWall-2500	样品形状: 棱柱形
Appearance color: White	Sample size
样品颜色: 白色	样品尺寸: T(196mm)*W(365mm)*L(536mm)
Rated info.	Cell quantity
额定信息: 51.2V/52Ah/2.66KWh	组成电芯数量: 16PCS
Quantity of sample: 30cells+8batteries	Cell mode
样品数量: 30 个电芯+8 个电池	电芯型号: IFP28148115A-52AH
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: 36A	最大持续充电电流: 36A
Standard discharge current	Max continuous discharge current
标准放电电流: 36A	最大持续放电电流: 36A
Receiving date	Sample identification
接样日期: 2021 年 12 月 10 日	样品标识序号: B01#~B08#,C01#~C30#
Completing date	Test item: 8 items
完成日期: 2021 年 12 月 21 日	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. Ltd are rested according to Section 38.3 of The Seventh Revised Edition of the United Nations Recommendations on the Transport of Dangerous Goods, Manual of Test and Criteria (ST/SG/AC.10/11/Rev.7/Section38.3). The test sulfs comply with the relevant 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《关于危险货物运输的建议书用整合和标准手册》第七修订版第38.3节进行检测,测试结果符合标准相关要求。

Date of issue: Sept. 21, 2022 签发日期: 2022 年 09 1 21 日

批准 Approved by 段江涛

审核 Reviewed by

野伟超

主检 Tested by

徐志龙

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Description and illustration of the sample:

样品说明及描述:

Test item 测试项目	Sample No. 样品编号	State 大学 Yun Su	Remark 备注
**************************************	B01#~B02#	at first cycle in fully charged states; 在第一个循环完全充电;	Battery
T.1~T.5	B03#~B04#	after 25 cycles ending in fully charged states; 在第二十五个循环完全充电;	电池
e Tian Su	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
7 an 5"	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
1.0	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 TSZ21120143-P01-R01, This sample and original report TSZ21120143-P01-R01 sample is the same sample, Only the applicant is different.

该报告数据引用于报告 TSZ21120143-P01-R01,此样品和原报告 TSZ21120143-P01-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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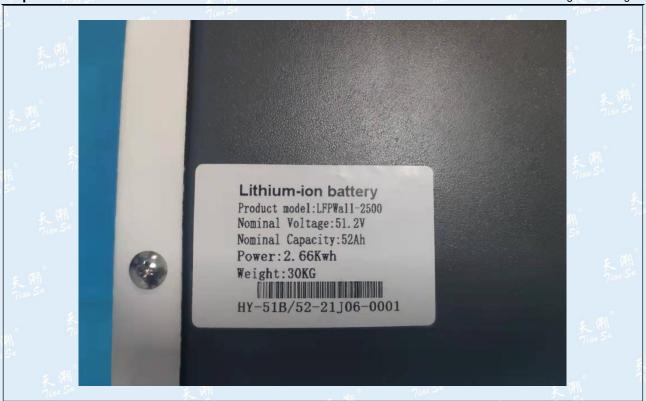








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Photos of Cell\电芯图片





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				£ M	_
1999	Test 1: Altitud	de simulation/	测试 1:高度模	拟	· ·	171an 54	A Sec
	at ambient ter	nperature (20°	C±5℃).		ôkPa or less for a Pa 的环境中贮存	at least six hour 不少于 6 个小时。	
	Requirement/	标准要求:	u.	天湖	Space	2. 188	
38.3.4.1	1.Cells and ba 样品质量损		oss limit: ≤0.1%	· Tian Ju		Tian Su 天鄉	Р
天 () 7 tan 5 tan	applicable to 样品试验后 和电芯。	o test cells and 开路电压应不值	l batteries at full 氐于试验前开路印	discharged sta 电压的 90%,此	要求不适用于完全	dis Su	
	50	* V	disassembly, n E排气、无解体、		no fire. 着火现象的发生	o ***	天徽 7ian Su
	Result 测试结果	. >±0	天湖 Tian Su	7 can >	未 溯	Tian Su	A ·
Sample No.	Befor 测证			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#	30.04	54.953	30.04	54.898	0.00	99.90	Р
D0 1#	7,000		30.05	55.731	0.00	99.95	7:4" S" P
B02#	30.05	55.759	30.03	Julie 2			
A1	30.05 30.04	55.759 54.752	30.03	54.692	0.00	99.89	Р

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38.3.4	Procedure/测	试步骤					-
天湖	Test 2: Therr	mal test/测试 2	:温度测试	122	天洲.	Tien -	7
	72°C±2°C, foll ±2°C, The ma procedure is t	lowed by storag ximum time int to be repeated	ge for at least si erval between t until 10 total cy	x hours at a te est temperatur cles are compl	rrs at a test temp st temperature e e extremes in 30 ete, after which a ture (20℃±5℃).	minutes, This	天明 7ian Su
	件下贮存不少	于6个小时,两		鬲最长为 30min	小时,然后,在》 1,重复操作上述步	昰度-40℃±2℃条 骤直到 10 次, 然	(M) 1011 54 1
38.3.4.2	Requirement/ 1.Cells and b 样品质量损	atteries Mass lo	oss limit: ≤0.1%	天湖 Tian Su	Tian Su Tian Su Tian	天衛 7ian.5 (注 1.54	P 美際
	applicable t	to test cells and	d batteries at ful	l discharged st	relating to volta ates. 要求不适用于完	Jim Su	天湖。
			o disassembly, r E排气、无解体、	•	no fire. L着火现象的发生	天湖 Tian Su · 采河	7114 54
	Result 测试结果	7ias Sa	美潮	KVM 7iau Su	* ************************************	M In Sa	天渊
Sample No.		re test 式前	After 测记	Test 试后	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#	30.04	54.898	30.04	54.618	0.00	99.49	Р
B02#	30.05	55.731	30.05	55.436	0.00	99.47	S P
B03#	30.04	54.692	30.04	54.397	0.00	99.46	P.
B04#	30.05	55.563	30.05	55.285	0.00	99.50	Р

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

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	Procedure/测	试步骤					_
天湖	Test 3: Vibra	tion/测试 3: 振	动 Tian Su	.2	天湖	Trans	
	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年固地安装在标	manner as to fa th a logarithmic rhis cycle shall ndicular mounti 动台的台面上, 17Hz 为一个循	withfully transmine sweep between be repeated 12 ing position of t 然后开始振动环,一个循环执	en 7 Hz and 200 2 times for a tota	ne vibration shall Hz and back to 7 I of 3 hours for 形式,以 7Hz 增	天開 7ian Si 開 2an Su
38.3.4.3	样品质量技 2.Open circui	atteries Mass Io 员失≤0.1%.	s than 90%, Th	ne requirement	relating to voltag	ge is not as Sa	P 天消 7int 5
	和电芯。 3.No leakage	, no venting, no	disassembly, r	no rupture and i			Film Su
	和电芯。 3.No leakage 样品(电池 Result	, no venting, no	disassembly, r	no rupture and i			天(M) 7:an 5a 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Tun Sii Sample	和电芯。 3.No leakage 样品(电池 Result 测试结果 Befor	, no venting, no	disassembly, r 排气、无解体、 After	no rupture and i	no fire.		Test
Sample No. 样品编号	和电芯。 3.No leakage 样品(电池 Result 测试结果 Befor	, no venting, no)应无漏液、无 re test	disassembly, r 排气、无解体、 After	no rupture and i 无破裂以及无	no fire. 着火现象的发生	天湖 Tian Su Tian Su Tian Su Tian Su	Test result 测试结果
No.	和电芯。 3.No leakage 样品(电池 Result 测试结果 Befor 测i	, no venting, no)应无漏液、无 re test 式前 Voltage	disassembly, r 排气、无解体、 After 测i Mass	no rupture and i 无破裂以及无 Test 式后 Voltage	no fire. 着火现象的发生 Mass loss	Residual OCV	result
No. 样品编号	和电芯。 3.No leakage 样品(电池 Result 测试结果 Befor 测试	,no venting, no)应无漏液、无 re test 式前 Voltage 开路电压(V)	disassembly, r 排气、无解体、 After 测i Mass 样品质量(kg)	no rupture and i 无破裂以及无 Test 式后 Voltage 开路电压(V)	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#	和电芯。 3.No leakage 样品(电池 Result 测试结果 Befor 测i Mass 样品质量 (kg) 30.04	,no venting, no)应无漏液、无 re test 式前 Voltage 开路电压(V) 54.618	disassembly, r 排气、无解体、 After 测i Mass 样品质量(kg) 30.04	no rupture and i 无破裂以及无 Test 式后 Voltage 开路电压(V) 54.558	mo 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 P

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

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	Procedure/测	试步骤					_
天湖	Test 4: Shock	(/测试 4: 冲击	F Villi Tian Su	-	天洲	-71a+>" • 34A	
	to a half-sine s smaller) and p subjected to a smaller) and p three shocks i three mutually	shock of peak a bulse duration of half-sine of pe bulse duration of n the positive of perpendicular	acceleration of of 6 milliseconds ak acceleration of 11 millisecond direction followe mounting posit	150g _n (or Accel s, large cells ar n of 50g _n (or Acc ds. Each cell or ed by three shoot ions of the cell	eration(gn)= $\sqrt{\frac{100}{m}}$ and large batteries celeration(gn)= $\sqrt{\frac{100}{m}}$ battery shall be take in the negation battery for a to	shall be (miss), which is subjected to ve direction of otal of 18 shocks.	天開 Tien So An Su
38.3.4.4	(或与√(mass) 须经受最大加 每个电池或电 受三次冲击,	中的较小值)的 速度 50gn(或与 池组须在三个互 总共经受 18 次	半 <u>正弦</u> 的加速度 $\sqrt{\frac{30000}{mass}}$ 中的较 $/$ 相垂直的电池 $\sqrt{2}$	度撞击,脉冲持约 小值)和脉冲持	读 6 毫秒,大型电 续时间 11 毫秒的	也以峰值为 150gn 已池和大型电池组 7半正弦波冲击。 接着在反方向经	P X 渊 Tian S
		atteries Mass lo	ss limit: ≤0.1%	H 54			•
	applicable t 样品试验后 和电芯。	voltage not les o test cells and 开路电压应不作	batteries at full 氐于试验前开路!	l discharged sta 电压的 90%,此	要求不适用于完全		夫猟 7:an 54
	2.Open circuit applicable t 样品试验后 和电芯。 3.No leakage,	voltage not les o test cells and 开路电压应不值 no venting, no	batteries at full 氐于试验前开路(disassembly, n	I discharged sta 电压的 90%,此 no rupture and r	ates. 要求不适用于完全	全放完电的电池	天湖 71.au 5 a 1 a 天道
。	2.Open circuit applicable t 样品试验后 和电芯。 3.No leakage,	voltage not les o test cells and 开路电压应不作 no venting, no) 应无漏液、无	batteries at full 氐于试验前开路(disassembly, n	I discharged sta 电压的 90%,此 no rupture and r	ates. 要求不适用于完全 no fire.	全放完电的电池	天開 Tean Sa Sa Tean Sa
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	voltage not less o test cells and 开路电压应不作 no venting, no)应无漏液、无果 e test	batteries at full 低于试验前开路 disassembly, n 抽气、无解体、	I discharged sta 电压的 90%,此 no rupture and r	ates. 要求不适用于完全 no fire.	全放完电的电池	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	voltage not less o test cells and 开路电压应不作 no venting, no)应无漏液、无果 e test	batteries at full 低于试验前开路 disassembly, n 抽气、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。	≥放完电的电池 7/2015 7/2015	result
No.	2.Open circuit applicable to 样品试验后 和电芯。 3.No leakage, 样品(电池 Result/测试结 Befor 测证	voltage not less o test cells and 开路电压应不作 no venting, no)应无漏液、无果 e test 式前	batteries at full 低于试验前开路 disassembly, r 排气、无解体、 After 测i	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	è放完电的电池 Residual OCV	result
No. 样品编号	2.Open circuit applicable to	voltage not less o test cells and 开路电压应不作 no venting, no)应无漏液、无果 e test 式前 Voltage 开路电压(V)	batteries at full 低于试验前开路 disassembly, r 排气、无解体、 After 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 测试结身
No. 样品编号 B01#	2.Open circuit applicable to	voltage not less o test cells and 开路电压应不作 no venting, no)应无漏液、无果 e test 式前 Voltage 开路电压(V) 54.558	batteries at full 纸于试验前开路 disassembly, r 排气、无解体、 After 测i Mass 样品质量(kg) 30.04	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) 54.536	mass loss 质量损失(%)	Residual OCV 剩余电压(%)	result 测试结身 P

 $\begin{tabular}{ll} \textbf{Other supplements} & : & Test result "P" decides that the test item passes. \\ \end{tabular}$

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38.3.4	Procedure/测试步骤	_
毛 湖	Test 5: External short circuit/测试 5: 外部短路	- 4
	The cell or battery to be tested shall be temperature stabilized so that its external case temperature reaches $57^{\circ}\text{C}\pm4^{\circ}\text{C}$ and then the cell or battery shall be subjected to a short circuit condition with a total external resistance of less than 0.1 ohm at $57^{\circ}\text{C}\pm4^{\circ}\text{C}$, This short circuit condition is continued for at least one hour after the cell or battery external case temperature has returned to $57^{\circ}\text{C}\pm4^{\circ}\text{C}$, the cell or battery must be observed for a further six hour for the test to be concluded.	美游 7ian Su 毛潮
38.3.4.5	保持试验环境温度稳定在 57℃±4℃,以使电芯或电池样品外表温度达到 57℃±4℃,然后,在此温度下,将其正负极用小于 0.1 欧姆的线路短接,待电芯或电池的外表温度恢复到 57℃±4℃之后再持续 1 小时以上,对电芯或电池必须进一步观察 6 个小时才能下结论。	Р
	Requirement/标准要求:	
	1.Cells and batteries meet this requirement if their external temperature does not exceed 170℃; 电芯或电池的外壳温度应不超过 170℃;	F MA
	2. No disassembly, no rupture and no fire during the test and within six hours after this test. 试验后 6 小时内无解体、无破裂、无起火。	天湖 Tian Su
	Result 如 St	A C
Sample No. 样品编号	Max External Temp 样品表面最高温度(℃)	Test result 测试结果
B01#	57.5 Tran 52	Р
B02#	7 in 50 F in 5	Į. P
Doo!!	57.4 Jun 54	Р
B03#		

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38.3.4	Procedure/测试步骤	_
支術	Test 6: Crush\impact/	
	测试 6: 挤压(适用)	
	撞击(不适用)	- 38A
	Crush 挤压	7ian S
	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.	ian Su
	(a) The applied force reaches 13kN±0.78kN;	0
	(b) The voltage of the cell drops by at least 100 mV;	
	(c) The cell is deformed by 50% or more of its original thickness.	
	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. 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	天湖 Tian S
	行,直到下面三个选项之一达到为止: 700 500 700 7	天湖
	(a)作用力达到 13kN±0.78kN;	7 can 5"
	(b)电池芯电压降至少达到 100mV;	
	(c)电池厚度和最初比较变形至少 50%。 ——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。	v a
	Impact 撞击	夫
8.3.4.6	(applicable to cylindrical cells not less than 18mm in diameter)	Р
A Su 天 消 Nan S	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.	天渊 7iau Su N Su
	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.	Frian
	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.	Jian Su
	(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,其纵轴平行于测试台面年,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。	用 54 天 7
	Requirement/标准要求:	
	1.Cells and component cells meet this requirement if their external temperature does not exceed 170℃;	天湖 Tian Sii
	电芯的外壳温度应不超过 170℃; 2. No disassembly, no fire during the test and within six hours after this test.	

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	试验后6小时内无解体、无起火。	天哪 7000 54 天潮	105
天 渊 Tian Su	Result 测试结果	天湖 大湖 Tian Su	州
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#	3.248	24.2	Р
C02#	3.270 A	24.8	Р
C03#	3.275	71 24.0 £ M	Р
C04#	3.273	24.1	Р
C05#	3.271	23.9	Р
C06#	3.281 Tran 5"	24.5	PimSu
C07#	3.252	23.8 7 m S"	Р
C08#	3.268 54	24.9	P
C09#	3.252	24.1 7ian Su	Р
C10#	3.243	23.1	∰ P

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	_
天哪	Test 7: Overcharge/测试 7: 过度充电	iii A
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 1	ne P
	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。	
	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. 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。	天 Tian
	Requirements/标准要求: No disassembly and no fire during the test and within seven days after the test.	天湖 Tian Su Tian Su
ample No.	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 result
•	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	Test result 测试结果
•	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
1 50	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) 54.953	测试结果 P

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38.3.4	Procedure/测试步骤	- MA	Tian Sil	天 渊 7 5."	_
天湖 7ian Su 7ian Su 38.3.4.8 7ian Su 7ian Su 7ian Su	Test 8: Forced discharge/测试 8: 强制放电 Each cell shall be forced discharged at ambient temperature by connecting it in series with a 12V D.C power supply at an initial current equal to the maximum discharge current specified the manufacturer The specified discharge current is to be obtained by connecting a resistive load of the appropriate size and rating in series with the test cell, Each cell shall be forced discharged for a time interval(in hours) equal to its rated capacity divided by the initial test current(in ampere). 在 20℃±5℃的环境温度下,将单个电芯连接在 12V 的直流电源上进行强制放电,此直流电源提供每个电芯初始电流为制造厂指定的最大放电电流,放电时间为额定容量除以初始电流。				Film St. P
	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。				F. F. Tian:
	Result 测试结果	· £ À		天 開 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 resu 测试结果
C11#	2.910	S P	C21#	2.946	P
C12#	2.924	P <u> </u>	C22#	2.904	Р
C13#	2.903	Р	C23#	2.903	F. B.
C14#	2.868	P	C24#	2.931	Р
C15#	2.908	P	C25#	7 in 5 2.946	Р
C16#	2.922	Р	C26#	2.867	Р
C17#	2.861	7cm S ^a P	C27#	2.893	P
C18#	2.878	P 700	C28#	2.932	Р
	2.858	Р	C29#	2.887	7up ^{Su}
C19#			1111		

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STATEMENTS

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