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检测报告 UN38.3

lame of sample:	Lithium-ion battery
产品名称:	天湖 7mm 5mm 天湖 天湖 天湖 7mm 5mm 5mm 5mm 5mm 5mm 5mm 5mm 5mm 5mm
Model/型号规格:	GroundHV-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:	## 54

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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UN38.3



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Rep. No 13222000034-P04-R01	Page 27 To Pages
Name of samples:Lithium-ion battery	Trade mark: -
样品名称: 锂离子电池	商标:-
	Commissioner address:
Commissioned by:	No.8-5 Shushan International Business Association, Liando
Anhui LEAD-WIN New Energy Technology Co., Ltd	U Valley, No.1499 Zhenxing Road, Shushan District, Hefei
委托单位:	City, Anhui Province, China 230061
安徽领域新能源科技有限公司	委托单位地址: Manager 1988
文像贝埃利尼 伽作汉书K公司	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
7ian 3m	业港 8-5 号 230061
	Manufacturer address:
Manufacturer by:Eyacht Energy.,LTD.	Yinrui Technology Park,Chuangxin Avenue,High-tech
制造单位:	District, Hefei, Anhui Province
合肥华宇智航动力能源有限公司	制造单位地址:
X MA	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:	制造商网址:
Phone: 13666547866 Email:214528311@qq.com	- IM Tian Su
Type/Model	Shape: Approximate Cuboid
型号规格: GroundHV-2500	样品形状: 近长方体
主 7 元帝:Groundi IV-2300	THUNN. LENT
Appearance color: White	Sample size
样品颜色: 白色	样品尺寸: L(580.0mm)* W(220.0mm)*H(202.5mm)
Rated info.	Cell quantity
额定信息: 48V/52Ah/2.5kWh	组成电芯数量: 15PCS
	並从七心
Quantity of sample: 30cells+8batteries	Cell model
样品数量: 30 个电芯+8 个电池	电芯型号: IFP28148115A-52Ah
* Williams State of the state o	Cut off valle as
Limited charge voltage	Cut-off voltage
充电限制电压: 53.25V	放电截止电压: 43.95V
Standard charge current	Max continuous charge current
标准充电电流: 35A	最大持续充电电流: 35A
7100 5" 7100 5"	THE WAY
Standard discharge current	Max continuous discharge current
标准放电电流: 35A	最大持续放电电流: 35A
	Sample identification
Receiving date	Sample identification
Receiving date 接样日期: 2022 07 12	Sample identification 样品标识序号: B01#~B8、C01#~C30#
Receiving date 接样日期: 2022.07.12	样品标识序号: B01#~B8, C01#~C30#

Test conclusion:

检测结论:

The Lithium-ion battery submitted by Anhui LEAD-WIN New Energy Technology Cb. Ltd are tasted according to Section 38.3 of The Seventh Revised Edition of the United Nations Recommendations on the Transfort of Dangerous Goods, Manual of Test and Criteria (ST/SG/AC.10/11/Rev.7/Section38.3). The test results comply with the 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,依据联合国《关于危险货物运输的建设电影和标准手册》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。 (01-03)

Date of issue: Sept. 21, 2022 签发日期: **2022.09.21**

批准 Approved by

段江涛

审核 Reviewed by

邱伟超

主检 Tested by

徐志龙

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Description and illustration of the sample:

样品说明及描述:

十四儿外及油丝	· ·	48	
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
7.17-1.5 F. WA 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
天湖	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
美 With Tian 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 TSZ22070100-P01-R01, This sample and original report TSZ22070100-P01-R01 sample is the same sample, Only the applicant is different.

该报告数据引用于报告 TSZ22070100-P01-R01,此样品和原报告 TSZ22070100-P01-R01 样品为同一样品,仅申请商不同

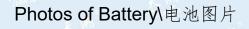
Remarks:

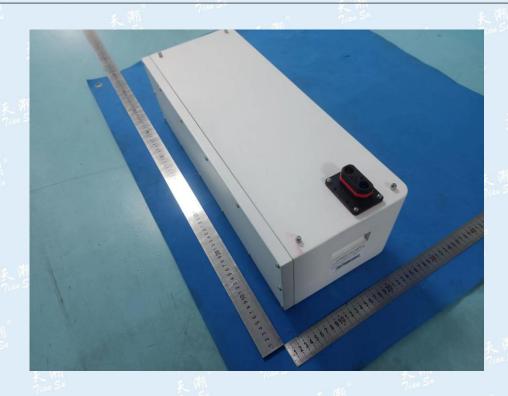
备注:

The Lithium-ion battery 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是大电池。



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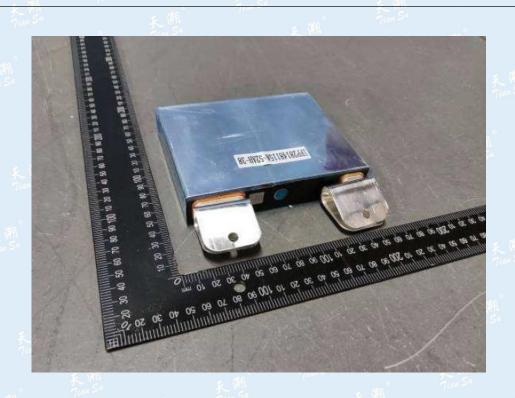
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Photos of Cell\电芯图片





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38.3.4	Procedure/测记	以少 據				1N 61	- 7A
天潮	Test 1: Altitud	le simulation/	测试 1:高度模	拟	用 Su	. 18	7ian Su
	at ambient tem	nperature (20°	C±5℃).		6kPa or less for a la 的环境中贮存	at least six hour 不少于 6 个小时。	·渊 Ican Su
38.3.4.1	样品质量损	tteries Mass lo 失≤0.1%。	es than 90%. Th		relating to voltage	fian 5" 天開 7ian 5 9 90 90 90 90 90 90 90 90 90 90 90 90 9	P 天洲
	applicable to	test cells and	batteries at full	discharged sta	MANA.	美 棚	7ian 5"
	和电芯。						天際
	3.No leakage,	•	disassembly, n t排气、无解体、	2000	no fire. 着火现象的发生。	天 開 Tian Su	天 渊 7ian Su
	3.No leakage,	•	- WA	2000		天湖 7ian Su 天河 7ian S	Zim Teau Su A
Sample	3.No leakage, 样品(电池) Result	应无漏液、无 企 Test	排气、无解体、	2000		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 企 Test	排气、无解体、	无破裂以及无	着火现象的发生。	表》 Tian S	Test result 测试结果
No.	3.No leakage, 样品(电池) Result 测试结果 Before 测试	应无漏液、无 e Test c	排气、无解体、 After 测i Mass	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)	D 应无漏液、无 e Test 式前 Voltage 开路电压(V)	After 测i Mass 样品质量(kg)	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 测试结果
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)	P Test Noltage 开路电压(V)	After 测i Mass 样品质量(kg) 23.439	Test 式后 Voltage 开路电压(V) 51.145	着火现象的发生。 Mass loss 质量损失(%) 0.00	Residual OCV 剩余电压(%) 99.92	result 测试结果 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					_
天湖。	Test 2: Thern	nal test/测试 2	:温度测试		美潮	-7can >"	
	72℃±2℃, foll ±2℃, The ma procedure is t batteries are t 将电芯和电池 件下贮存不少	owed 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 temperatur cles are completed bient temperate 存不少于 6 个 扇最长为 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	夫爾 Tion So Lan Su
天湖。 云湖	Requirement/	•	IJ C FV T I T IX		Tim Si	天衛	Р
38.3.4.2	1.Cells and ba 样品质量损		oss limit: ≤0.1%	天湖 Tian Su			天 湖
			ss than 90%, Th I batteries at ful	2.0	relating to volta	ge is not	- 10m -
	样品试验后 和电芯。	开路电压应不仅	氏于试验前开路	电压的 90%,此	要求不适用于完	全放完电的电池	F WA Tian Su
	3.No leakage, no venting, no disassembly, no rupture and no fire. 样品(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。						
	Result 测试结果	71an Su	支衛	K VIII 7ian Su	* 7:	湖 河an Sa	s"
Sample No.	Before 测证	e Test 式前	After Test 测试后		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#	23.439	51.145	23.439	50.905	0.00	99.53	Р
B02#	23.435	51.801	23.435	51.516	0.00	99.45	S P
B03#	23.429	51.786	23.429	51.553	0.00	99.55	Р
100 100 100 100 100 100 100 100 100 100		51.028	23.435	50.803	0.00	99.56	Р

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 3: Vibra	tion/测试 3:振	动 大小	192	未 做	-71an >" - 289.	-	
天瀬 7ian Su R Su	Cells and batteries are firmly secured to the platform of the vibration machine without distorting the cells in such a manner as to faithfully transmit the vibration, The vibration shall be a sinusoidal wave form with a logarithmic sweep between 7 Hz and 200 Hz and back to 7 Hz traversed in 15 minutes, This cycle shall be repeated 12 times for a total of 3 hours for each of three mutually perpendicular mounting position of the cell. 将电芯和电池牢固地安装在振动台的台面上,然后开始振动。振动以正弦波形式,以 7Hz 增加至 200Hz,然后再减少回到 7Hz 为一个循环,一个循环持续 15 分钟的对数扫频。每个电芯和电池从三个互相垂直的方向上循环 12 次,3 个小时。						天湖 Tian Su ian Su	
38.3.4.3 ********************************	样品质量扩 2.Open circui applicable 样品试验后 和电芯。 3.No leakage	atteries Mass lo 员失≤0.1%. t voltage not les to test cells and 开路电压应不信	ss than 90%, TI I batteries at fu 氐于试验前开路 o disassembly, i	he requirement Il discharged sta 电压的 90%,此 no rupture and i	要求不适用于完全	全放完电的电池	平 Fian Si Fian Su	
2 3/A	Result 测试结果	7100	利 利 5	7ian 5u	天 7ia	说 "S"	天 if	
Sample No.	Befor	re Test 式前		r 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#	23.439	50.905	23.439	50.885	0.00	99.96	Р	
B02#	23.435	51.516	23.435	51.475	0.00	99.92	Р	
B03#	23.429	51.553	23.429	51.543	0.00	99.98	Pian	
B04#	23.435	50.803	23.435	50.747	0.00	99.89	Р	

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	(/测试 4: 冲击	X VIII 7 ian Su	29	天湖		
Tian Su Tian Su Tian Su 38.3.4.4	Test cells and batteries shall be secured to the testing machine, and each shall be subjected to a half-sine shock of peak acceleration of 150g _n (or Acceleration(gn)= √ (
	Requirement/ 1.Cells and ba 样品质量损	atteries Mass Ic	oss limit: ≤0.1%	7iai A Sa			2 334
	applicable t 样品试验后 和电芯。 3.No leakage,	o test cells and 开路电压应不值 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	要求不适用于完全	≧放完电的电池	Tian Sa
	applicable t 样品试验后 和电芯。 3.No leakage,	o test cells and 开路电压应不值 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.	≧放完电的电池	Tian Su Tian Su Tian
Sample	applicable t 样品试验后 和电芯。 3.No leakage, 样品(电池 Result/测试结	o test cells and 开路电压应不作 no venting, no)应无漏液、无 i果 e Test	batteries at ful 纸于试验前开路 disassembly, r 上排气、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.	≧放完电的电池	Test
Sample No. 样品编号	applicable t 样品试验后 和电芯。 3.No leakage, 样品(电池 Result/测试结	o test cells and 开路电压应不作 no venting, no)应无漏液、无 i果 e Test	batteries at ful 纸于试验前开路 disassembly, r 上排气、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。	≥放完电的电池 7/m ≤ 7/m ≤	result
No.	applicable ti 样品试验后 和电芯。 3.No leakage, 样品(电池 Result/测试结 Before 测证	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 上排气、无解体、 Aftel 测i	I discharged sta 电压的 90%,此 no rupture and r 无破裂以及无 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	applicable ti 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)	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 ful 纸于试验前开路 disassembly, r 上排气、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 测试结界
No. 样品编号 B01#	applicable the 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) 23.439	o test cells and 开路电压应不作 no venting, no)应无漏液、无 课 e Test 式前 Voltage 开路电压(V) 50.885	batteries at ful 纸于试验前开路 disassembly, r 上排气、无解体、 After 测i Mass 样品质量(kg) 23.439	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) 50.839	mass loss 质量损失(%)	Residual OCV 剩余电压(%)	result 测试结果 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		天朔 -
天 洲	Test 5: External shor	t circuit/测试 5:外部短路	- 11an - 3
7 (M) 7 (M) 7 (M) 8 (M)	temperature reaches so circuit condition with a circuit condition is contemperature 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 that its f7℃±4℃ and then the cell or battery shall be subtotal external resistance of less than 0.1 ohm at 5 tinued for at least one hour after the cell or battery ned to 57℃±4℃, the cell or battery must be observed to 57℃±4℃, the cell or battery must be observed to 57℃±4℃, 以使电芯或电池样品外表温度达到用小于 0.1 欧姆的线路短接, 待电芯或电池的外表温,对电芯或电池必须进一步观察 6 个小时才能下约	pjected to a short 57℃±4℃, This short y external case rved for a further six 57℃±4℃, 然后, 在 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 temperature	美術 Tian Su
	Result 测试结果	天潮 Tian St	Tian Su
Sample No. 样品编号	天湖 Tian Tian Su	Max External Temp 样品表面最高温度(℃)	Test result 测试结果
B01#	天佛	58.5	P
B02#	之間 rian 5"	58.3	, VP
B03#	文湖	7100 5 T.4 7100 5 W	P

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

38.3.4	Procedure/测试步骤	_
2 渊	Test 6: Crush\Impact/	
	测试 6: 挤压(适用)	
	撞击(不适用)	- 14
	Crush 挤压	gian 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.	· All Su
	(a) The applied force reaches 13kN±0.78kN;	5
	(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.	F. Francisco
	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:	2 MA
	(a)作用力达到 13kN±0.78kN;	Jian Su
	(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%。	
	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。	i A
	Impact 撞击	F. Tian
Tian Su	(applicable to cylindrical cells not less than 18mm in diameter)	
88.3.4.6	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	P 天湖 7iai Si
	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.	S*
	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.	P. Tea
	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.	天湖 7100 50
	(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。	14 . 5"
	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。	K Ti
	Requirement/标准要求:	6
	1.Cells and component cells meet this requirement if their external temperature does not exceed 170℃;	天湖 Tian Su
	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.	(40%)
	2. NO disassembly, no me during the test and within six hodis after this test. は验后 6 小財力 チ軽体 チ起火	#A

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	Result 测试结果	天湖 Tean Sii Tean Sii	Tian >" \$
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#	3.267 Jun Su	23.9 744 54	P- Vill
C02#	3.264	23.1 54 7144 54	Р
C03#	3.242	24.1	. P
C04#	3.249	24.7 Fun 50	Р
C05#	3.256	24.3	Р
C06#	3.272	24.1 K	Р
C07#	3.256	24.2	Pian Si
C08#	3.254 3.254	23.6	Р
C09#	3.256	24.9	7P
C10#	3.276 £ 10	23.7 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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88.3.4	Procedure/测试步骤	_
天棚	Test 7: Overcharge/测试 7: 过度充电	12-0
	When the manufacturer's recommended charge voltage is not more than 18V, the minim voltage of the test shall be the lesser of two times the maximum charge voltage of the o 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. To charging current is 2 times of the maximum charging current recommended by the manufacturer.	r K
8.3.4.7	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为电电压或者是 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.	Tean.
	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。	天瀬
	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	天湖 Tran Se
ample No.	Result F. S. F. S. F. S.	Test result
	Result 测试结果	Test result 测试结果
	Result 测试结果 OCV prior to test	ian >"
样品编号	Result 测试结果 OCV prior to test 试验前电压(V)	测试结果
样品编号 B05#	Result 测试结果 OCV prior to test 试验前电压(V) 51.186	测试结果
B06#	Result 测试结果 OCV prior to test 试验前电压 (V) 51.186 51.817	测试结果 P P

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38.3.4	Procedure/测试步骤	- 246	7,015"	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	_	
	Test 8: Forced discharge/测	试8: 强制放申	Ē		Ą	
71 Jan 54 71 Jan 54 38.3.4.8	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。					
	Requirements/标准要求: No disassembly and no fire du 试验样品在试验中和试验后 7	- 1			天道 Tian S	
	Result 测试结果	z M	天湖 Tian Sa	7ian 5th 天 開 7ian 5th	K WA 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	
C11#	2.879	P Tian 5 P	C21#	2.912	Prim	
C12#	2.878	Р	C22#	2.899	Р	
C13#	2.902	Р	C23#	2.929	P	
C14#	2.866	P	C24#	2.936	Р	
C15#	2.860	Р	C25#	2.907	P	
C16#	2.857	Р	C26#	2.915	Р	
C17#	2.922	7ian Su P	C27#	2.910	P	
0.14	2.920	P 7ia	C28#	2.910	Р	
C18#			020#	2.913	7~p5"	
C18#	2.928	Р	C29#	2.010	150	

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