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# 检测报告 UN38.3

Name of sample:	Lithium Battery Power Bank	
产品名称:	锂电池电源组	F. W.
Model/型号规格:	HIP-25.6V200Ah	雅 "S"
Client:	SHENZHEN SAKO SOLAR CO.,LTD	
委托单位:	深圳市三科新能源有限公司	美 Tian
Classification:	Commission Test	YAA.
检测类别:	<b>美棚</b>	<sub>24</sub> 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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100 Ho.: 102220004014 01-101	r age 27 To r age
Name of samples: Lithium Battery Power Bank	Trade mark: -
样品名称: 锂电池电源组	商标:-
	Commissioner address:
Commissioned by:	608, Building C, Huanggangling, Industrial Area, HEXI
SHENZHEN SAKO SOLAR CO.,LTD	Village, Xixiang Street, Baoan District, Shenzhen
委托单位: 条	委托单位地址:
深圳市三科新能源有限公司 gan Su	深圳市宝安区西乡街道桃源社区航城工业区河西黄岗岭工业
Tian 5" X M	园 C 栋 608
Manufacturer by:	Manufacturer address:
GUANGDONG SAKO NEW ENERGY CO.,LTD .	Room 101, NO.1, 2nd Street, shujiu Park, Changping Town
制造单位:	Dongguan City, Guangdong Province, China
广东三科新能源有限公司	制造单位地址:
54	广东省东莞市常平镇漱旧园区二街 1 号 101 室
Manufacturer's Contact Information	Manufacturer's Web Site
制造商联系信息:	制造商网址:
Phone:13798478110 Email:6798455@qq.com	www.sakopower.com
Type/Model	shape: Prismatic
型号规格: HIP-25.6V200Ah	样品形状: 棱柱形
Appearance color: Blue	Sample size
样品颜色: 蓝色	样品尺寸:T(200mm)*W(480mm)*L(715mm)
5 A	o nais
Rated info.	Cell quantity
额定信息: 25.6V/200Ah/5120Wh	组成电芯数量: 8PCS
Quantity of sample: 30cells+8batteries	Cell mode
样品数量: 30 个电芯+8 个电池	电芯型号: 3.2V 270Ah
Tier 5"	Cut off voltage
Limited charge voltage 充电限制电压: 29.2V	Cut-off voltage 放电截止电压: 22.4V
尤电限制电压. 29.2V	放电街山电压. ZZ.4V
Standard charge current	Max continuous charge current
标准充电电流: 40A	最大持续充电电流: 100A
Standard discharge current	Max continuous discharge current
标准放电电流: 40A	最大持续放电电流: 100A
7 into	2 MA
Receiving date	Sample identification
接样日期: 2022-04-02	样品标识序号: B01#~B08#, C01#~C30#
Completing date	Test item: 8 items
完成日期: 2022-04-013	<b>列</b> 试项目: 8 项

#### Test conclusion:

检测结论:

The Lithium Battery Power Bank submitted by SHENZHEN SAKO SOLAR CO., LTD are tested according to Section 38.3 of The Seventh Revised Edition of the United Nations Recommendations on the that sport of Dangerous Goods, Manual of Test and Criteria (ST/SG/AC.10/11/Rev.7/Section38.8). The lest results comply with the relevant requirements of the standard.

由深圳市三科新能源有限公司送检的锂电池电源组,依据联合国《关 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: Apr. 18, 2022 **佐发** 图期<sup>032</sup>022-04-13

批准 Approved by

段17涛 审核 Reviewed by



主检 Tested by

不够溢

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Description and illustration of the sample:

样品说明及描述:

	Test item	Sample No.	State Full Transu	Remark
	测试项目	样品编号	状态	7 备注
<b>1</b>	T.1~T.5	B01#~B02#	at first cycle in fully charged states; 在第一个循环完全充电;	Battery
76	. S. 1. 1. 1. 3	B03#~B04#	after 25 cycles ending in fully charged states; 在第二十五个循环完全充电;	电池
*	7ian 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 F. M. Tian Su	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
20	T.7	B05#~B06#	at first cycle in fully charged states; 在第一个循环完全充电;	Battery
<b>X</b>	Veria 1.7 pr. 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 S
VI.	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

 	 	procedure:

取样程序的说明:

/

#### Description of report revision:

报告修订的说明:

/

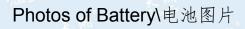
#### Remarks:

备注:

The Lithium Battery Power Bank by SHENZHEN SAKO SOLAR CO.,LTD are large batteries. 由深圳市三科新能源有限公司所送的锂电池电源组是大电池。



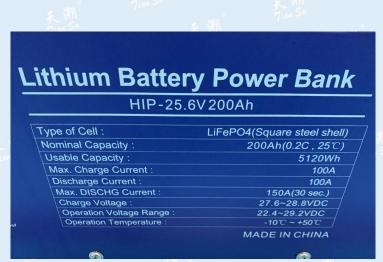
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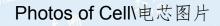


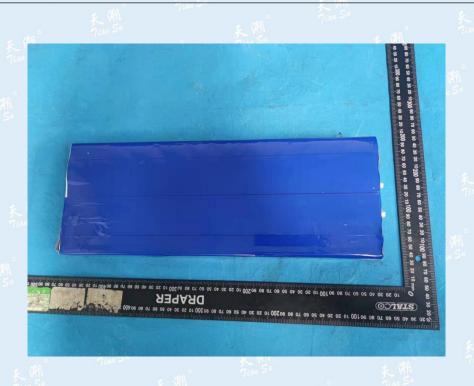


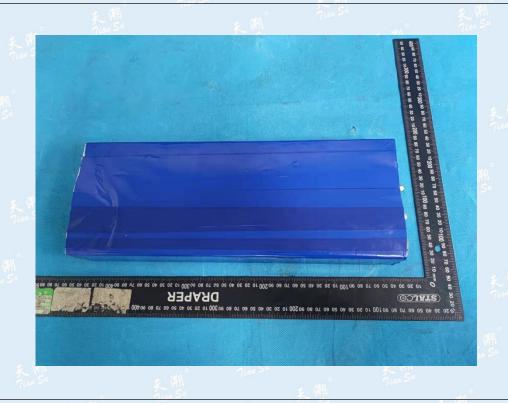
电池标签 Battery Label



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38.3.4	Procedure/测记	式步骤				天湖	_
天洲	Test 1: Altitud	le simulation/	测试 1:高度模	:拟	天湖 Tim Su		
	at ambient ten	nperature (20°	C±5℃).		6kPa or less for a Pa 的环境中贮存	54	美潮 Tian Su
	Requirement/	示准要求:	美育 Tian	A Se	支潮	Fian Su	
	1.Cells and ba 样品质量损		ss limit: ≤0.1%	美爾 Tion 50		<b>天</b> 潮	Р
38.3.4.1		- 0		ne requirement I discharged sta	relating to voltagates.	e is not	6
	样品试验后:	开路电压应不值	纸于试验前开路	电压的 90%,此	要求不适用于完全	放完电的电池	
			disassembly, r	no rupture and r	no fire.	2 M	
	样品(电池)	应无漏液、无	上排气、无解体、	无破裂以及无	着火现象的发生。	, Jian Su	
	样品(电池) Result 测试结果	· 应无漏液、无	.排气、无解体、	无破裂以及无	着火现象的发生。	, Tian Su 文術	天训 7ian Su
Sample	Result	e test	Afte	无破裂以及无 r Test 试后	着火现象的发生。 Mass loss	Residual OCV	Test result
Sample No. 样品编号	Result 测试结果 Before	e test	Afte	r Test	Tian Su	友 徹 Tran Su	Test result 测试结身
No.	Result 测试结果 Before 测试	e test 前 Voltage	Aftel 测 Mass	r <b>Test</b> 试后 Voltage	Mass loss	Residual OCV	result
No. 样品编号	Result 测试结果 Before 测过 Mass 样品质量 (kg)	e test 前 Voltage 开路电压(V)	After 测 Mass 样品质量(kg)	r Test 式后 Voltage 开路电压(V)	Mass loss 质量损失(%)	Residual OCV 剩余电压(%)	result 测试结身
No. 样品编号 B01#	Result 测试结果 Before 测试 Mass 样品质量 (kg) 71.011	e test 前 Voltage 开路电压(V) 27.792	Aftel 测 Mass 样品质量(kg) 71.011	r Test 式后 Voltage 开路电压(V) 27.784	Mass loss 质量损失(%) 0.00	Residual OCV 剩余电压(%) 99.97	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					_
天湖	Test 2: Therr	mal test/测试 2	: 温度测试		<b>毛潮</b>	Team 2"	$q = \frac{1}{2}$
	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 iximum 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 an ±2℃的条件下贮	ix hours at a terest temperaturates are completed bient temperates are completed bient temperates are a 10 minutes are a 10 minutes are are a 10 minutes are at a 10 minutes are	st temperature e e extremes in 30 ete, after which a ture (20℃±5℃). 小时,然后,在这	minutes, This all test cells and	天湖 Tian Su Lan Su
38.3.4.2	Requirement/	/标准要求:	Fran St	2.	Tian Su	A.V	Р
30.3.4.2	1.Cells and ba 样品质量损		oss limit: ≤0.1%	Z VIII Tian Su			<b>天</b> 鄉
	•	December 1997	ss than 90%, Th I batteries at ful	40	relating to volta	ge is not	-Jian -
	样品试验后 和电芯。	开路电压应不仅	氐于试验前开路	电压的 90%,此	要求不适用于完	全放完电的电池	天衛 Tian Su
			o disassembly, r <sup></sup> 七排气、无解体、	•	no fire. 着火现象的发生	7 ian Su	·
	Result 测试结果	71an 5"	<b>文</b> 爾	夫训 Tian Su	<b>天</b>	M an Su	5·0 天逝
Sample No.		re test 式前		Test 武后	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#	71.011	27.784	71.011	27.628	0.00	99.44	Р
B02#	71.021	27.285	71.021	27.094	0.00	99.30	Р
B03#	71.004	27.744	71.004	27.578	0.00	99.40	Р
B04#	71.023	27.717	71.023	27.553	0.00	99.41	Р

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

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38.3.4	Procedure/测	试步骤					
天侧	Test 3: Vibra	tion/测试 3: 揚	动 71011 511	. 20	<b>美潮</b>	-7641-" - 784	
	distorting the be a sinusoid Hz traversed each of three 将电芯和电池 加至 200Hz,	cells in such a al wave form w in 15 minutes, mutually perpe 宇固地安装在执 然后再减少回到	manner as to fa ith a logarithmic This cycle shall endicular mount 表动台的台面上,	withfully transmit sweep between be repeated 12 ing position of t 然后开始振动 环,一个循环标	n 7 Hz and 200 l 2 times for a tota	ne vibration shall Hz and back to 7 I of 3 hours for 形式,以 7Hz 增	天湖 7ian Si ian Si
38.3.4.3			oss limit: ≤0.1%	天湖 7ian5t	Alan 天 Tian	A 71ax 5	美術 Tian S
	applicable 样品试验后 和电芯。	to test cells and f开路电压应不作	l batteries at ful 氐于试验前开路	I discharged sta 电压的 90%,此	要求不适用于完全	- Ibon	天開。 71an 5a
		_ NA.6	o disassembly, r E排气、无解体、		no fire. 着火现象的发生。	, £ 1	i a
	Result 测试结果		天湖 nian Su	Tian Su	天 7ia	VIII Sa	天 V Tian
Sample No.		re test 试前	1.0	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(%)	测试结身
B01#	71.011	27.628	71.011	27.622	0.00	99.98	Р
B02#	71.021	27.094	71.021	27.091	0.00	99.99	Р
B03#	71.004	27.578	71.004	27.564	0.00	99.95	P
Fran 5*		27.553	71.023	27.550	0.00	99.99	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	<b>/</b> /测试 4: 冲击	7ian Su	2	天湖.	-7ear-	2
7100 Su 7100 Su 7100 Su 38.3.4.4	to a half-sine s smaller) and p subjected to a smaller) and p three shocks i three mutually 以稳固的托架 (或与√ <sup>10850</sup> ) 须经受最大加 每个电池或电	shock of peak a pulse duration of half-sine of peoulse duration of n the positive of perpendicular 固定住每个电芯 中的较小值)的 速度 50gn(或 <sup>1</sup>	acceleration of a form of a form of a form of 6 milliseconds eak acceleration of 11 millisecond direction follower mounting position of 12 中的较级 and 12 中的较级 和垂直的电池等	150gn (or Accel s, large cells ar of 50gn (or Acc ds. Each cell or d by three sho ions of the cell 全部配件表面。 走撞击,脉冲持续	eration(gn)= \( \sum_{\text{in}}^{\text{in}} \) and large batteries beleration(gn)= \( battery shall be between the negative or battery for a total or ba	shall be $\sqrt{\frac{30000}{mass}}$ , which is subjected to	天湖 7ian Su Ian Su P
	Requirement/		oss limit: ≤0.1%.	n Tia	, S#	K VIII Tian Su	
	样品质量损 2.Open circuit applicable to 样品试验后 和电芯。 3.No leakage,	失≤0.1%. voltage not les o test cells and 开路电压应不们 no venting, no	ss than 90%, Th l batteries at full 氐于试验前开路。 disassembly, n	ne requirement discharged sta 电压的 90%,此 o rupture and i	要求不适用于完全	全放完电的电池	天渊 7ian Sa
	样品质量损 2.Open circuit applicable to 样品试验后 和电芯。 3.No leakage,	失≤0.1%. voltage not les o test cells and 开路电压应不们 no venting, no ) 应无漏液、无	ss than 90%, Th l batteries at full 氐于试验前开路。 disassembly, n	ne requirement discharged sta 电压的 90%,此 o rupture and i	ates. 要求不适用于完全 no fire.	全放完电的电池	天 開 7ian 54 1 2 2 7ian -
Sample	样品质量损 2.Open circuit applicable to 样品试验后 和电芯。 3.No leakage, 样品(电池 Result/测试结	失≤0.1%. voltage not les o test cells and 开路电压应不作 no venting, no ) 应无漏液、无	ss than 90%, Th I batteries at full 氐于试验前开路口 disassembly, n 元排气、无解体、	ne requirement discharged sta 电压的 90%,此 o rupture and i	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	样品质量损 2.Open circuit applicable to 样品试验后 和电芯。 3.No leakage, 样品(电池 Result/测试结	失≤0.1%. voltage not les o test cells and 开路电压应不作 no venting, no ) 应无漏液、无	ss than 90%, Th I batteries at full 氐于试验前开路口 disassembly, n 元排气、无解体、	ne requirement discharged sta 电压的 90%,此 or rupture and i 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	result
No.	样品质量损  2.Open circuit applicable to 样品试验后和电芯。  3.No leakage, 样品(电池  Result/测试结  Before  Mass	失≤0.1%. voltage not less o test cells and 开路电压应不作 no venting, no ) 应无漏液、无	ss than 90%, Th I batteries at full 氐于试验前开路。 disassembly, n 元排气、无解体、 After 测i	ne requirement discharged sta 电压的 90%,此 or rupture and i 无破裂以及无	ates. 要求不适用于完全 no fire. 着火现象的发生。 Mass loss	全放完电的电池 Residual OCV	result
No. 样品编号	样品质量损  2.Open circuit applicable to 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)	失≤0.1%.  voltage not les o test cells and 开路电压应不作 no venting, no ) 应无漏液、无	ss than 90%, The batteries at full 氐于试验前开路中 disassembly, n 元排气、无解体、 After 测证 Mass 样品质量(kg)	ne requirement discharged sta 电压的 90%,此 or rupture and i 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#	样品质量损  2.Open circuit applicable to 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)  71.011	失≤0.1%. 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) 27.622	ss than 90%, The batteries at full 武于试验前开路中 disassembly, n 上排气、无解体、 After Mass 样品质量(kg) 71.011	ne requirement discharged sta 电压的 90%,此 or rupture and i 无破裂以及无 Test 式后 Voltage 开路电压(V)	mass loss 质量损失(%)	Residual OCV 剩余电压(%)	result 测试结果 P

 $\label{lem:continuous} \textbf{Other supplements} \; : \; \text{Test result "P" decides that the test item passes}.$ 

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38.3.4	Procedure/测试步骤	_
天逝	Test 5: External short circuit/测试 5: 外部短路	
	The cell or battery to be tested shall be temperature stabilized so that its external case temperature reaches $57^{\circ}\pm4^{\circ}$ 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 $57^{\circ}\pm4^{\circ}$ . This short circuit condition is continued for at least one hour after the cell or battery external case temperature has returned to $57^{\circ}\pm4^{\circ}$ , the cell or battery must be observed for a further six hour for the test to be concluded.	天湖 Tian Si
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℃;	天 斯 7ian S
	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 7ian Su
	Result 测试结果	A
Sample No. 样品编号	Max External Temp 样品表面最高温度(℃)	Test result 测试结果
B01#	天洲 57.5 Tran 52	Р
B02#	71.0 50 57.7 71.0 50 THE STATE OF THE STATE	Р
B03#	天湖 7100 500 天湖	Р
	5 E VIII 714 - 714	

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

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38.3.4	Procedure/测试步骤	_
<b>美洲</b>	Test 6: Crush\Impact/	
	测试 6: 挤压(适用)	
	撞击(不适用)	- 1
	Crush 挤压	Tion 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;	3
	(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	F. V
	行,直到下面三个选项之一达到为止: 7/4 <sup>5</sup>	美洲
	(a)作用力达到 13kN±0.78kN;	7ian 5u
	(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。	\ u
	Impact 撞击	表
8.3.4.6	(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.	天湖 7ian Su A 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 $\pm$ 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.	天710
	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.	Fian 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。	A 54 7
	Requirement/标准要求:	20
	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℃;	天湖 Tian Sii
	电芯的外壳温度应不超过 170 C; 2. No disassembly, no fire during the test and within six hours after this test.	(III)

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	试验后6小时内无解体、无起火。	夫哪 700058	2000
	Result 测试结果	天文 大瀬 7ian Sa	· 洲
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#	3.245	24.6 Jun Su	Р
C02#	3.255	23.9	£ ∦P
C03#	3.249	7100 Su 23.2 £ M	Р
C04#	3.245	23.2	Р
C05#	3.262	23.9 £ M	Р
C06#	3.272 7.00 50	23.6	Pian Si
C07#	3.265	24.6	Р
C08#	3.275 54	24.8	7 im P
C09#	7.45° 3.278	23.7	Р
C10#	3.261	24.9	S 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	_
天概	Test 7: Overcharge/测试 7: 过度充电	2249
38.3.4.7	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
	7/m 5" 2 MA	
	信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。	F. VA
	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.	天湖 Tian 天湖 Tian Su
Sample No. 样品编号	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。 Result	Test result 测试结果
•	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。 Result 测试结果 OCV prior to test	
样品编号	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。  Result 测试结果  OCV prior to test 试验前电压 (V)	测试结果
样品编号 B05#	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。 Result 測试结果  OCV prior to test	测试结果

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38.3.4	Procedure/测试步骤	2 140	Fran S"	<u> </u>	_
	Test 8: Forced discharge/测试 8: 强制放电				AA.
71 M	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				美洲 7ian Si
	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。				0 5
	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 M Tian S
	Result 测试结果	<b>未</b> 例。	天湖 7ian Su	71am Sii 天瀬 71am Sii	Right 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#	76au 5u 2.937	Pian Su P	C21#	2.939	Prim
C12#	2.909	P 🕵	C22#	2.861	Р
C13#	2.936	Р	C23#	2.940	Р
C14#	2.913	Р	C24#	2.907	Р
C15#	2.912	7;as 5** P	C25#	7 in Su 2.929	Р
C16#	2.891	Р	C26#	2.867	Р
C17#	2.910	7 Can Su P	C27#	2.860	P
C18#	2.920	P Trans	C28#	2.936	Р
C40#	2.940	Р	C29#	2.946	P
C19#	4.57 (3.618)	797	7,440		

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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. 除非全部复制,否则无深圳天溯计量检测股份有限公司书面批准本报告不得部分复制。
- 3. This report is invalid without the signature of the approver, reviewer, and tester. 本报告无批准人、审核人及检测人签名无效。
- 4. The test report is invalid if altered. 本报告涂改无效。
- 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。

-----报告结束-----