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检测报告 TEST REPORT

UN38.3

NAME OF SAMPLE:

产品名称:

Lithium ion battery

锂离子电池

CLIENT:

委托单位:

Huafu(JiangSu) Lithium Battery High Technology
Co.,Ltd

华富 (江苏) 锂电新技术有限公司

CLASSIFICATION OF TEST:

检测类别:

Commission Test

委托测试



检测报告

TEST REPORT

No.:RZUN2019-3424

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Name of samples: Lithium ion battery 样品名称:锂离子电池	Type/Model: 型号规格: 8-LFP-60-EV-NOB 25,6V 60Ah 1,5kWh
Color: Black 样品颜色:黑色	Physical shape: Prismatic 样品形状: 棱柱形
Commissioned by: Huafu(JiangSu) Lithium Battery High Technology Co.,Ltd 委托单位: 华富(江苏)锂电新技术有限公司 Commissioner address:Building A2, Science and Technology Venture Center, Dongting Lake Road, Economic Development Zone, Gaoyou City ,Jiangsu,China 委托单位地址:江苏省高邮经济开发区洞庭湖路科技创业中心 A2 栋	Manufacturer: Huafu(JiangSu) Lithium Battery High Technology Co.,Ltd 制造商: 华富(江苏)锂电新技术有限公司 Manufacturer address:Building A2, Science and Technology Venture Center, Dongting Lake Road, Economic Development Zone, Gaoyou City Jiangsu,China制造商地址: 江苏省高邮经济开发区洞庭湖路科技创业中心 A2 栋
Classification of test: Commission Test 检测类别: 委托测试	Quantity of sample: 4 battery packs, 30 cells 样品数量: 4 个电池组, 30 个电芯
Tested according to: 测试标准: ST/SG/AC.10/11/Rev.6/Amend.1/Section 38.3	Sample identification: 样品标识序号:b1#~b4#, c1#~c30#
Receiving date: 接样日期: 2019-10-18	Means of receiving: Submitted by commissioner 接样方式: 委托单位送样
Completing date: 完成日期: 2019-11-20	Test item: 8items 测试项目: 8 项

Test conclusion:

检测结论:

The Lithium ion batteries

submitted by Huafu(JiangSu) Lithium Battery High Technology Co.,Ltd are tested according to Section 38.3 of the Sixth revised Edition Amendment 1 of the Recommendations on the Transport of Dangerous Goods, Manual of Test and Criteria (ST/SG/AC.10/11/Rev.6/Amend.1/Section 38.3). The test items are full items. The test results comply with the relevant requirements of the standard.

由华富(江苏)锂电新技术有限公司送检的锂文子电池、依据《关于危险货物运输的建议书》试验和标准 手册第六修订版修正 1 第 38.3 节进行检测,试验为多项目,测试给果符合标准相关要求。

Title: Manager 批准人职务: 经理

Approved by: Reviewed by:

Tested by:

批准:

Huangkuns

审核:

Zhang Sigao

检测:

Wei Grushua

Ref. No.:RZUN2019-3424

Description and illustration of the sample:

样品说明及描述:

The sample's status is good

样品状况良好。

Cell Dimensions/电芯尺寸: 11,0mm×14mm×16mm

Test item	Sample No.	State	Remark
测试项目	样品编号	状态	备注
	b1#~b2#	at first cycle, in fully charged states 第一个交替充电放电周期完全充电状态	
T.1~T.5	b3#~b4#	after 25 cycles ending in fully charged states 第 25 个交替充电放电周期完全充电状态	
	c1#~c5#	at first cycle at 50% of the design rated capacity 第一个交替充电放电周期充电到设计额 定容量的 50%	
T.6	c6#~c10#	after 25 cycles ending at 50% of the design rated capacity 第 25 介交替充电放电周期充电到设计额 定容量的 50%	
	c11#~c20#	at first cycle, in fully discharged states 第一个交替充电放电周期完全放电状态	##/////
T.8	c21#~c30#	after 25 cycles ending in fully discharged states 第 25 个交替充电放电周期完全放电状态	

Description of the sampling procedure:

取样程序的说明:

Description of the deviation from the standard, if any:

测试结果不符合标准项的说明:

Remarks:

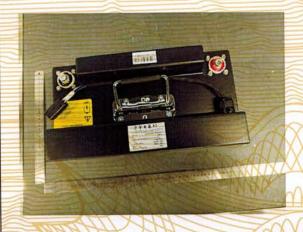
备注:

Throughout this report a comma is used as the decimal separator.

本报告中以逗号代替小数点。

Photos of Samples and Labels/样品照片及标识

Battery/电池 (8-LFP-60-EV-NOB 25,6V 60Ah 1,5kWh)





8-LFP-60-EV-NOB Type: 25.6V Rate Voltage: 60Ah(1500Wh) Rate Capacity: Designation: IFpP/330/170/272/[8S3P]M/-20+45/80 17.5kg Weight: 5°C-45°C Chargeing Temperature: Manufacturer Huafu (Jiangsu) Luthium Battery High Technology Co., Ltd. Address Battery Industrial Park of Gaoyou City, Jiangsu Province CE X & A



Warning and Caution



Do not let the battery pack's terminals (+ and -) contact with unnecessary waire or any metal or stored them together, that may cause the battery pack short-streuit.

Do not drive a nail in battery pack, hit the battery pack with a hammer, stamp on or throw the battery pack.

Do not go the battery pack into fire or beat the battery pack of not store the battery pack in high temperature environment.

Do not submerge the battery pack in water or get wet in the main, keep the battery in shady and cool place when stored. When charging or discharging the battery pack, if you find any abnormal smell or noise you must stop the charging or discharging the factory.

Photos of Samples and Labels/样品照片及标识

Inner Cell/内部电芯(HF11141161LFP20AH 3,2V 20Ah)





lause	ST/SG/AC.10/11/Rev.6/Amend.1/S Requirements	Result	Verdict				
节	标准要求	测试结果	判定				
38.3.4	Procedure/测试步骤						
	Test 1: Altitude simulation/测试 1: 高度模拟						
	Test cells and batteries shall be stored at a pressure six hour at ambient temperature (20±5℃)/ 将电芯和力为不大于 11,6kpa 的环境中贮存不少于 6 个小时	of 11,6kPa or less for at least 电池在温度为 20±5℃,大气压					
	Requirement/标准要求:						
38.3.4.1	1 Cells and batteries Mass loss limit: ≤0,1% /样品 质量损失≤0,1% 2 Open circuit voltage not less than 90%, The requirement relating to voltage is not applicable to test cells and batteries at full discharged states. 样品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和电芯。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	The samples b1#~b4#: No leakage, no venting, no disassembly, no rupture and no fire/编号为 b1#~b4#的样品: 无漏液、无排气、无解体、无破裂以及无着火现象 The data is shown in Table 1./数据见表 1	P				
#3/E	Test 2: Thermal test/测试 2: 热冲击	1997					
])&	Test cells and batteries are to be stored for/电池存储						
1/200	1 For small cells and batteries: one temperature cy /对于小型电芯和电池: 一次温度循环为 72±2℃(6h) -	cle: 72±2°C(6h) —40±2°C(6h) —40±2°C(6h)	多厘				
	For large cells and batteries: one temperature cycle: 72±2℃(12h) —40±2℃(12h) /对于大型电芯和电池: 一次温度循环为 72±2℃(12h) —-40±2℃(12h)						
	2 The maximum time interval between test temperature extremes is 30 minutes/温度转换最大间隔时间为 30min 3 This procedure is to be repeated 10 times/重复 10 次循环						
38.3.4.2	temperature (20±5℃)/循环结束后,电池在 20±5℃的	均条件下搁置 24 小时	Р				
300	Requirements/标准要求	344X THE					
	1 Cells and batteries Mass loss limit: ≤0,1% /样品 质量损失≤0,1%	The samples b1#~b4#:					
1	2 Open circuit voltage not less than 90%, The requirement relating to voltage is not applicable to test cells and batteries at full discharged states.	No leakage, no venting, no disassembly, no rupture and no fire/編号为 b1#~b4#的样					
	样品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和电芯。	品: 无漏液、无排气、无解体、无破裂以及无着火现象 The data is shown in Table					
	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	1./数据见表 1					

	ST/SG/AC.10/11/Rev.6/Amend.1/S	Section 38.3	
Clause 章节	Requirements 标准要求	Result 测试结果	Verdict 判定
38.3.4.3	Test 3: Vibration/测试 3: 振动 1 Cells and batteries are firmly secured to the platfor 芯和电池牢固地安装在振动台(的台面)上 2 The vibration: a sinusoidal waveform with a logarit 200Hz and back to 7Hz traversed in 15 minutes/振至 200Hz, 然后在减少回到 7Hz 为一个循环,一个送。 3 For cells and small batteries: from 7 Hz a peak ac until 18Hz is reached. The amplitude is then main excursion) and the frequency increased until a pe (approximately 50Hz). A peak acceleration of 8g, frequency is increased to 200Hz. / 对于电芯和小型电值加速度保持不变,直到达到 18Hz。然后将振幅保护且频率增加直到出现 8gn 的峰值加速度(大约 50H度,直到频率增加到 200Hz。 For large batteries: from 7Hz a peak acceleration of reached. The amplitude is then maintained at 0.8m the frequency increased until a peak acceleration 25Hz). A peak acceleration of 2gn is then main increased to 200Hz. / 对于大型电池: 从 7Hz 开始变,直到达到 18Hz。然后将振幅保持在 0.8mm(总到出现 2gn的峰值加速度(大约 25Hz)。然后保持加到 200Hz。 4 This cycle repeated 12 times for a total of 3 ho perpendicular mounting position of the cell. One of be perpendicular to the terminal face. /以振动的支性,对每个电芯从三个互相垂直的方向上循环 12 次时。	hmic sweep between 7Hz and 动以正弦波形式,以 7Hz 增加盾环持续 15 分钟的对数前移传 celeration of 1gn is maintained tained at 0.8mm (1.6mm total ak acceleration of 8gn occurs is then maintained until the 1池:从 7Hz 开始,以 1gn 的峰 1元 0.8mm(总偏移 1.6mm)。然后保持 8gn 的峰值加速 1gn is maintained until 18Hz is m (1.6mm total excursion) and of 2gn occurs (approximately stained until the frequency is compared to 1,0 以 1gn 的峰值加速度保持不足偏移 1.6mm)并且频率增加直2gn 的峰值加速度,直到频率增加度 1,0 以 1gn 的峰值加速度,直到频率增加 1,0 以	
	Requirements/标准要求 1 Cells and batteries Mass loss limit: ≤0,1% /样品质量损失≤0,1% 2 Open circuit voltage not less than 90%, The requirement relating to voltage is not applicable to test cells and batteries at full discharged states. 样品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和电芯。 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	The samples b1#-b4#: No leakage, no venting, no disassembly, no rupture and no fire/编号为 b1#-b4#的样品: 无漏液、无排气、无解体、无破裂以及无着火现象 The data is shown in Table 1./数据见表 1	

Clause	ST/SG/AC.10/11/Rev.6/Amend.1/Section 38.3 Requirements Resul	•	Verdict
章节	标准要求	A STATE OF THE PARTY OF THE PAR	判定
学 1			
	Test 4: Shock/测试 4: 冲击 1 Test cells and batteries shall be secured to the testing machine/以稳定住每个电芯和电池样品的全部配件表面。 2 Each cell shall be subjected to a half-sine shock of peak acceleration and pulse duration of 6 milliseconds. Large cells may be subjected to shock of peak acceleration of 50 gn and pulse duration of 11 milliseconds. Acceleration of 50 gn and pulse duration of 11 milliseconds. Acceleration of 50 gn and pulse duration of 11 milliseconds. Acceleration of 50 gn and pulse duration of 11 milliseconds. Small batteries shall be subjected to a half-sine shock of peak acceler gn (or Acceleration(gn)= (100850)/mass), which is smaller) and pulse duration of 50 gn (or Acceleration(gn)= (30000)/mass), which is smaller) and pulse duration of 50 gn (or Acceleration(gn)= (100850)/mass), which is smaller) and pulse duration of 50 gn (or Acceleration(gn)= (100850)/mass), which is smaller) and pulse duration of 50 gn (or Acceleration(gn)= (100850)/mass), which is smaller) and pulse duration of 50 gn (or Acceleration(gn)= (100850)/mass), which is smaller) and pulse duration of 11 milliseconds.	on of 150 g _n o a half-sine onds. / 对每 中世本须经受 ration of 150 uration of 6 acceleration	
38.3.4.4	11 milliseconds/对每个电池以峰值为 150g _n (或与 \(\big(\frac{100850}{mass}\big)\ 中的较小 \(\frac{30000}{mass}\big)\ 中的较小值)和脉冲持续时间 11 毫秒的半正弦波冲击。 3 Each cell or battery shall be subjected to three shocks in the posit followed by three shocks in the negative direction of three mutually p mounting positions of the cell or battery for a total of 18 shocks/每个时须在三个互相垂直的电池安装方位的正方向经受三次冲击,接着在反大	50g _n (或与 ive direction erpendicular 已池或电池组	
	冲击,总共经受 18 次冲击。 Requirements/标准要求: 1 Cells and batteries Mass loss limit: ≤0,1% /样品质量损失≤0,1% 2 Open circuit voltage not less than 90%, The requirement relating to voltage is not applicable to test cells and batteries at full discharged states. 样品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和电芯。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 The data is sho 1./数据见表 1	yenting, no rupture and 1#-b4#的样 9g _n 无解体、无	

	ST/SG/AC.10/11/Rev.6/Amend.1/S	Section 38.3							
Clause 章节	Requirements Result 测试结果								
	Test 5: External Short Circuit/测试 5 外接短路								
	1The cell or battery to be tested shall be temperature case temperature reaches 57±4℃/保持试验环境温电池样品外表温度达到 57±4℃	re stabilized so that its external 度稳定在 57±4℃,以使电芯或							
	2 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±4°C, This short circuit condition is continued for at least one hour after the cell or battery external case temperature								
X	has returned to 57±4°C, or in the case of the large batteries, has decreased by half of the maximum temperature increase observed during the test and remains below that value. /将样品正负极用小于 0,1Ω 的总电阻回路进行短路,样品的外表温度恢复到 57±4°C之后保持短路状态 1 小时以上,对于大电池,电池温度降低至最高温升								
38.3.4.5	值的一半时实验结束。 3 the cell or battery must be observed for a further six hour for the test to be concluded, // // // // // // // // // // // // //								
	Requirements/标准要求: During the test and within six hours after test ,the cells or batteries	The samples b1#~b4# :							
	在测试过程中以及之后 6 个小时内,电芯或电池样品 1. External temperature not exceed 170℃	and no fire/编号为 b1#~b4# 的样品: 无解体、无破裂以及 无着火现象							
	外表温度不超过 170℃ 2. No disassembly, no rupture and no fire. 无解体、无破裂和无着火现象发生。	The data is shown in Table 1./数据见表 1							

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	ST/SG/AC.10/11/Rev.6/Amend.1/Section 38.3	
Clause	Requirements Result	Verdict
章节	标准要求 测试结果	判定
	Test 6: Impact / Crush / 测试 6: 撞击/挤压	Р
	Impact (applicable to cylindrical cells not less than 18mm in diameter) /	
	撞击(适用于直径不小于 18 毫米的圆柱形电池)	
	1 This test sample cell or component cell is to be placed on a flat smooth surface 将试验样品用的电芯或聚合物电芯放在一个平坦光滑的平面上	e/
	2 A 15,8 mm diameter bar is to be placed across the center of the sample, A 9,1k	g
V	mass is to be dropped from a height of 61±2,5cm onto the sample./将一直径为 15,8mm 的横木横过电池中部放置后,将一质量为 9,1kg 的物体从 61±2,5cm 的 度落向样品。	与
	3 The test sample is to be impacted with its longitudinal axis parallel to the fla	at
	surface and perpendicular to the longitudinal axis of the 15,8 mm ± 0,1mm	n
	diameter curved surface lying across the centre of the test sample. Each sample to be subjected to only a single impact./ 接受撞击的试样,纵轴应与平坦的表面。	is N/A
= 1111	行并与横放在试样中心的直径 15,8±0,1 毫米弯曲表面的纵轴垂直。每一个试样只	3
	受火撞击。	
1/	Requirements/标准要求:	
	1 Cells external temperature not exceed 170℃.电 芯或电池的最高表面温度应不超过 170℃	
3/8	2 No disassembly, no fire within six hours of this	
引&	test	
100	试验结束后 6 个小时之内,电芯和聚合物电芯应无	30/1/2
38.3.4.6	解体和无着火现象发生 Crush (applicable to prismatic, pouch, coin/button cells and cylindrical cells less	
00.3.4.0	than 18mm in diameter)	27/5
3/8	/挤压(适用于棱柱形、袋装、硬币/纽扣电池和直径小于18毫米的圆柱形电池)	
3) &	1 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	nt
](名	of contact. The crushing is to be continued until the first of the three options below	w
3/4	/is reached. / 将电池或元件电池放在两个平面之间挤压,挤压力度逐渐加大,在 一个接触点上的速度大约为 1,5 厘米/秒。挤压持续进行,直到出现以下三种情况。	界)
	一个接触点上的速度人约为 1.3 厘米/秒。加强特殊处址,直到出现以上上的1900	
1111	(a) The applied force reaches 13 kN ± 0,78 kN. / 施加的力达到 13 千牛±0,78 千牛	
	(b) The voltage of the cell drops by at least 100 mV,/电池的电压下降至少 100 毫	大
	(c) The cell is deformed by 50% or more of its original thickness./电池变形达原厚度的 50%以上。	P
	2. A prismatic or pouch cell shall be crushed by applying the force to the wide	est
	side. A button/coin cell shall be crushed by applying the force on its flat surface	S.
	For cylindrical cells, the crush force shall be applied perpendicular to the longitudinal axis. /棱柱形或袋装电池应从最宽的一面施压。组和/硬币形电池应从	其
	平坦表面施压。圆柱形应从与纵轴垂直的方向施压。	
	Requirements/标准要求:	
	T cells external temperature not exceed 170 C. e no disassembly and no file	re/
	心或电池的取筒农皿温度应小超过170℃。	无
	test	ole
	试验结束后 6 个小时之内,电芯和聚合物电心应尤 2./数据见表 2	
	解体和无着火现象发生	

	ST/SG/AC.10/11/Rev.6/Amend.1/S		Verdict				
Clause 章节	Requirements 标准要求	Result 测试结果	判定				
早1		NO PRINCIPAL AND ADDRESS OF THE PARK AND ADDRESS OF TH	732				
	Test 7: Overcharge/测试 7: 过充电						
	1 The charge current shall be twice the manufacture continuous charge current/以 2 倍制造厂推荐的最大						
	2 The minimum voltage of the test shall be as follow	AND THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED ADDRESS OF THE PERSON NAMED ADDRESS OF THE PERSON NAMED ADDRESS					
	a) When the manufacturer's recommended charge	10/7-10/10/10/10/10/10/10/10/10/10/10/10/10/1					
	voltage is not more than 18V, the minimum						
	voltage of the test shall be the lesser of two times						
	the maximum charge voltage of the battery or 22V/ 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是厂家标定最大充电电压的两						
	倍或者是 22V 之中的较小者。	The voltage of the test is					
	b) When the manufacturer's recommended charge voltage is more than 18V, the minimum voltage of	34,56V, and the current is 30A					
38.3.4.7	the test shall be 1,2 times the maximum charge	测试的电压为 34,56V, 电流	P				
	voltage/ 如果厂家推荐的充电电压超过 18V,本测	为30A					
	试的最小充电电压应是厂家标定最大充电电压的 1,2 倍。	149111111					
	3 Tests are to be conducted at ambient						
<i>38</i> E	temperature 20±5°C, The duration of the test shall	3999					
3 /8	be 24 hours/20±5℃的环境温度下,试验持续 24 小						
7/200	时。	The samples b1#~b4#:	DIE!				
188	Requirements/标准要求: No disassembly and no fire within seven days of	no disassembly, no rupture					
(82)	this test	and no fire/编号为 b1#~b4#	PLE				
3/18	试验样品在试验中和试验后7天内,应无解体和无	的样品: 无解体、无着火现象					
	着火现象发生。	For voltage data before test, see table 3. / 试验前电压见表					
	MILLION TARKET MANNESS Y	3					
ALY)	Test 8: Forced discharge/测试 8: 强制放电	AMILIA					
	Each cell shall be forced discharged at ambient ten	perature by connecting it in					
- Alle	series with a 12 V D.C. power supply at an initial cudischarge current specified by the manufacturer,	irrent equal to the maximum					
	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					
	电源提供给每个电芯初始电流为制造厂指定的最大流	坟 电电流。					
	The specified discharge current is to be obtained by	y connecting a resistive load of					
38.3.4.8	the appropriate size and rating in series with the test discharged for a time interval (in hours) equal to its	rated capacity divided by the	Р				
00.0.4.0	initial test current (in ampere)						
	指定的放电电流通过串联在测试电芯上的合适大小和功率的负载来获得,每个电芯						
	的强制放电时间(小时)为额定容量除以初始电流						
	Requirements/标准要求:	The samples c11#~c30#: no disassembly and no fire/					
	No disassembly and no fire within seven days of this test	编号为 c11#~c30#的样品:					
	试验样品在试验中和试验后7天内,应无解体和无	无解体、无着火现象 The data is shown in Table					
	着火现象发生。	4./数据见表 4					

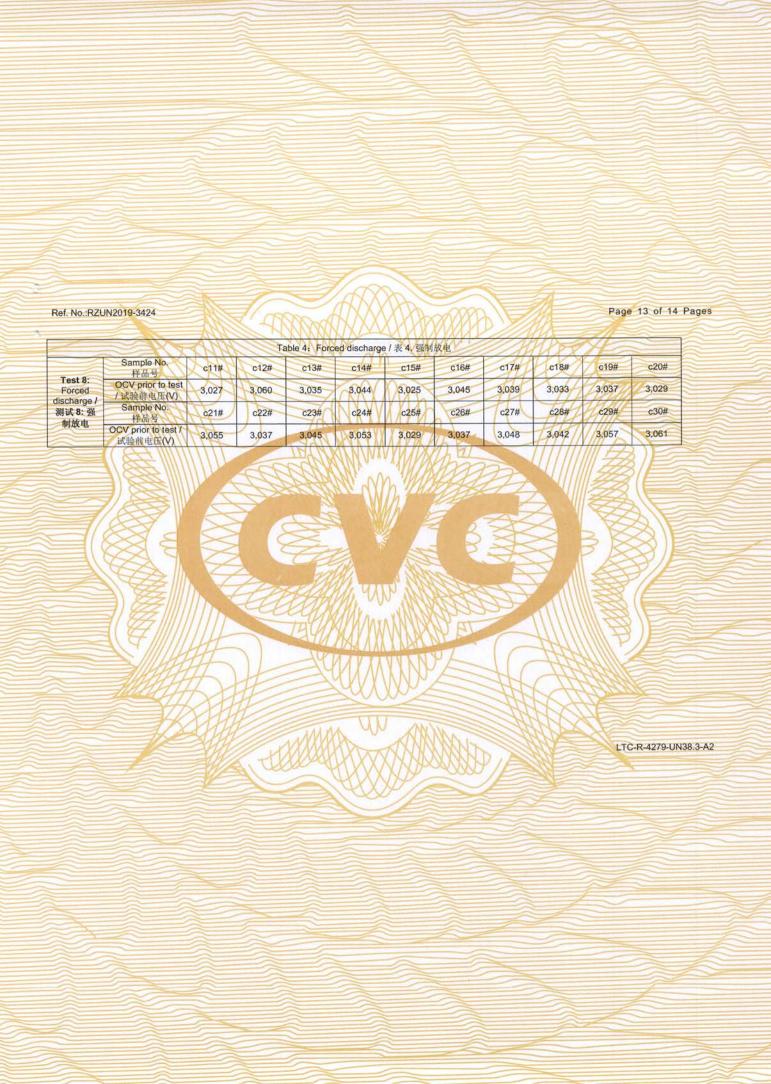
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	A DESCRIPTION OF THE PERSON OF	1 1 1 2 1 2 2 2	13 Part 1 31 1 V 1 3 L 3	THE RESERVE AND ADDRESS OF THE PARTY OF THE	(Target St. 1) 1 1 1 1 1 1 1 1 1	

				2									
Sampl e No. 样品号		Mass prior to test / 试 验前质量	OCV prior to test /试 验前电	Test 1: A simula 测试 1: 3	tion/	Test 2: The 测试 2:		Test 3: V 测试 3		Test 4: 测试 4	The state of the s	Test 5: External Short Circuit/测试 5 外接短路	
		(kg)	压(V)	Mass loss(%) 质量损失(%)	Change ratio 电压比(%)	Mass loss(%) 质量损失(%)	Change ratio 电压比(%)	Mass loss(%) 质量损失(%)	Change ratio 电压比(%)	Mass loss(%) 质量损失(%)	Change ratio 电压比(%)	Temp. (℃) 温度 (℃)	
	b1#	18,830	26,734	0,000	99,99	0,015	99,81	0,000	100,00	0,000	100,00	57,3	
	b2#	18,820	26,747	0,000	99,99	0,005	99,79	0,000	99,99	0,000/	100,00	57,8	
	b3#	18,880	26,758	0,000	100,00	0,047	99,77	0,000	100,00	0,000	100,00	57,5	
	b4#	18,700	26,730	0,000	99,99	0,005	99,80	0,000	100,00	0,000	100,00	57,7	

	S			Table2	Crush /表 2	:挤压	Q	3		3 8	
Test 6:	Sample No. 样品号	c1#	c2#	¢3#	c4#	c5#	c6#	c7#	c8#	c9#	c10#
Crush/测 试 6:挤压	OCV prior to fest / 试验前电压 (V)	3,294	3,294	3,290	3,293	3,295	3,296	3,294	3,295	3,294	3,292
	Temp. (℃) 温度 (℃)	24,8	24,7	24.5	24,3	24,8	24,7	24,5	24,2	24,7	24,5

111	Table3: Overcharge Test of batteries/表 3 电池过充试验						
	Test 7:	Sample No. 样品号	b1#	b2#	b3#	b4#	
111111	Overcharge / 测试 7: 过充电	OCV prior to test /试验 前电压 (V)	26,677	26,683	26,692	26,672	

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注意事项 Important

1. 报告无检测单位印章无效。

The test report is invalid without the official stamp of CVC.

- 2. 未经本试验室书面同意,不得部分地复制本报告。
 Nobody is allowed to photocopy or partly photocopy this test report without written permission of CVC.
- 3. 本报告无批准人、审核人及检测人签名无效。
 The test report is invalid without the signatures of Ratifier, Reviewer and Testing engineer.
- 4. 本报告涂改无效。
 The test report is invalid if altered.
- 5. 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。

Objections to the test report must be submitted to CVC within 15 days,

6. 本报告仅对送检样品负责。

The test report is valid for the tested samples only.

7. 判定栏中"-"表示"不需要判定", "P"表示"通过", "F"表示"不通过", "N/A"表示"不适用"。

As for the Verdict, "-" means "no need for judgement", "P" means "pass", "F" means "fail" and "N/A" means "not applicable".

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