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检测报告 UN38.3

Name of sample:	LiFePO4 Battery
产品名称:	磷酸铁锂电池
Model/型号规格:	LC48/5000
Client:	Guangdong Chuangxin New Energy Technology Co., Ltd
委托单位:	广东创鑫新能源科技有限公司
Classification:	Commission Test
检测类别:	************************************

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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Name of samples: LiFePO4 Battery	Trade mark: -
样品名称: 磷酸铁锂电池	商标:-
Commissioned by: Guangdong Chuangxin New Energy Technology Co., Ltd 委托单位: 广东创鑫新能源科技有限公司	Commissioner address: No. 28 Xinglong Road, Shixin Community, Zhangmutou Town, Dongguan City, Guangdong Province 委托单位地址: 东莞樟木头镇石新兴隆路 28 号
Manufacturer by: Guangdong Chuangxin New Energy Technology Co., Ltd 制造单位: 广东创鑫新能源科技有限公司	Manufacturer address: No. 28 Xinglong Road, Shixin Community, Zhangmutou Town,Dongguan City, Guangdong Province 制造单位地址: 东莞樟木头镇石新兴隆路 28 号
Manufacturer's Contact Information	Manufacturer's Web Site
制造商联系信息:	制造商网址:
Phone: 13925827568 Email: 442483539@qq.com	-
Type/Model	Shape: Approximate Cuboid
型号规格: LC48/5000	样品形状: 近长方体
Appearance color: Black	Sample size
样品颜色: 黑色	样品尺寸: L(495.0mm)* W(432.90cm)*H(167.9cm)
Rated info.	Cell quantity
额定信息: 51.2V/100Ah/5.12kWh	组成电芯数量: 16PCS
Quantity of sample: 30cells+8batteries	Cell model
样品数量: 30 个电芯+8 个电池	电芯型号: L160F100
Limited charge voltage	Cut-off voltage
充电限制电压: 57.6V	放电截止电压: 48V
Standard charge current	Max continuous charge current
标准充电电流: 20A	最大持续充电电流: 100A
Standard discharge current	Max continuous discharge current
标准放电电流: 20A	最大持续放电电流: 100A
Receiving date	Sample identification
接样日期: 2022.09.08	样品标识序号: C01#~C30#, B01#~B08#
Completing date	Test item: 8 items
完成日期: 2022.09.17	测试项目: 8 项
Took aspalusions	C 100 T 100 T

Test conclusion:

检测结论:

The LiFePO4 Battery submitted by Guangdong Chuangxin New Energy Technology Co., Ltd are tested 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 results comply with the relevant requirements of the standard.

由广东创鑫新能源科技有限公司送检的磷酸铁锂电池,依据联合国《关于危险货物运输的》、书,**试**源和标准手册》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: Sep. 28,2022 签发量期: 2022.09.28

(01-03

批准 Approved by 段に海

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:

11	nn nn 1/1 / / / / / / / / / / / / / / /	• ** ** ** ** ** ** ** ** ** ** ** ** **	S MR S STAR S STAR S S S S S S S S S S S S S S S S S S S	
	Test item 测试项目	Sample No. 样品编号	State 头侧状态	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
74	, S. 1.17-1.5	B03#~B04#	after 25 cycles ending in fully charged states; 在第二十五个循环完全充电;	电池
h.		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	on 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
1	T.8	C11#~C20#	at first cycle in fully discharged states; 在第一个循环完全放电;	Cell
5W	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

\Box	Accri	ation	of the	campling	procedure	٠.
u	1000 II	JUUIT	OI LITE	Sampling	procedure	۶.

取样程序的说明:

/

Description of report revision:

报告修订的说明:

/

Remarks:

备注:

The LiFePO4 Battery by Guangdong Chuangxin New Energy Technology Co., Ltd are large batteries.

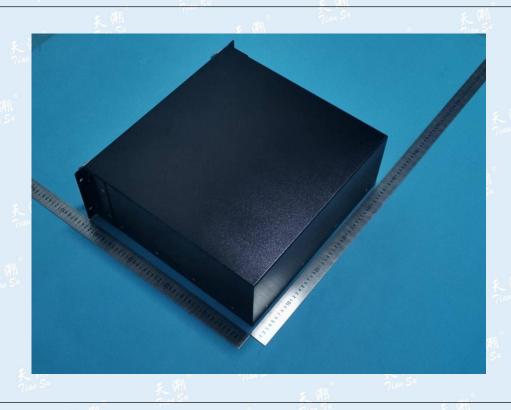
由广东创鑫新能源科技有限公司所送的磷酸铁锂电池是大电池。



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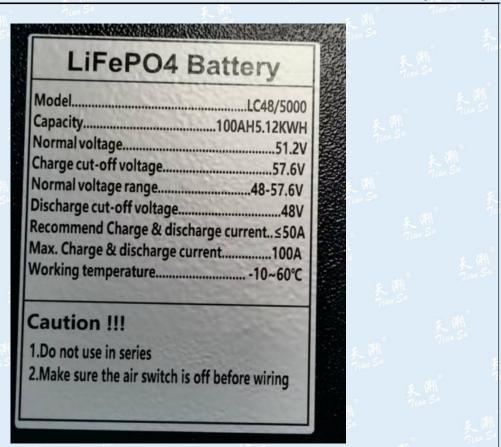
Photos of Battery\电池图片







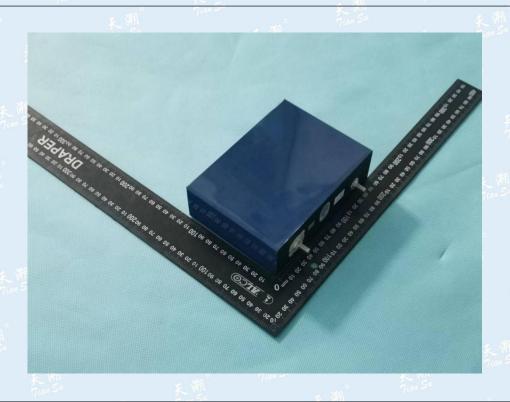
Rep. No.:TSZ22050077-P03-R01Page 5 / 16 Pages

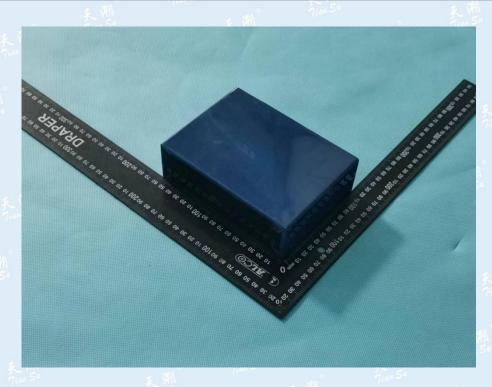




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38.3.4	Procedure/测记	式 少 锹					-
天概	Test 1: Altitud	le simulation/	测试 1: 高度模	拟	夫衛 5Su	Trans	1
	at ambient ten	nperature (20°	C±5℃).		6kPa or less for a Pa 的环境中贮存	at least six hour 不少于 6 个小时。	夫湖 Tian Su
	Requirement/	标准要求:	Z III	A see	主 渊	Fian Su	
00.044	1.Cells and ba 样品质量损	A.m. 5	ss limit: ≤0.1%	夫爾 Tier Su			P
38.3.4.1	applicable to	test cells and	batteries at full	discharged sta		美術	
	和电芯。 3.No leakage,	no venting, no	disassembly, n	o rupture and r		全放完电的电池	天 浙 Tian S
	和电芯。 3.No leakage, 样品(电池) Result	no venting, no	disassembly, n	o rupture and r	no fire.		天衛 Tian S 天衛 Tian Su
Sample	和电芯。 3.No leakage, 样品(电池)	no venting, no)应无漏液、无 e Test	disassembly, n .排气、无解体、	o rupture and r	no fire.		Test
Sample No. 样品编号	和电芯。 3.No leakage, 样品(电池) Result 测试结果 Before	no venting, no)应无漏液、无 e Test	disassembly, n .排气、无解体、	no rupture and r 无破裂以及无	no fire. 着火现象的发生。	美洲 Tian St Tian St	Test result 测试结果
No.	和电芯。 3.No leakage, 样品(电池) Result 测试结果 Before 测试 Mass	no venting, no)应无漏液、无 e Test t前 Voltage	disassembly, n 排气、无解体、 After 测i Mass	no rupture and r 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 Before 测试 Mass 样品质量 (kg)	no venting, no)应无漏液、无 e Test 式前 Voltage _{开路电压(V)}	disassembly, n 排气、无解体、 After 测i Mass 样品质量(kg)	no rupture and r 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 测试结界
No. 样品编号 B01#	和电芯。 3.No leakage,样品(电池) Result 测试结果 Before 测试 Mass 样品质量 (kg) 42.739	no venting, no)应无漏液、无 e Test 式前 Voltage 开路电压(V) 55.120	disassembly, n 排气、无解体、 After 测i Mass 样品质量(kg) 42.739	Test 式后 Voltage 开路电压(V)	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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38.3.4	Procedure/测	试步骤						
天 谢	Test 2: Therr	mal test/测试 2	: 温度测试		未 例	-7can Sil		
	Test cells and batteries are to be stored for at least six hours at a test temperature equal to 72℃±2℃, followed by storage for at least six hours at a test temperature equal to -40℃ ±2℃, The maximum time interval between test temperature extremes in 30 minutes, This procedure is to be repeated until 10 total cycles are complete, after which all test cells and batteries are to be stored for 24 hours at ambient temperature (20℃±5℃). 将电芯和电池在温度为 72℃±2℃的条件下贮存不少于 6 个小时,然后,在温度-40℃±2℃条件下贮存不少于 6 个小时,两个温度间的间隔最长为 30min,重复操作上述步骤直到 10 次,然后,将其在环境温度为 20℃±5℃的条件下放置 24 个小时。							
38.3.4.2	Requirement/ 1.Cells and ba 样品质量损	atteries Mass lo	oss limit: ≤0.1%	天湖 7ian Su	Tian Sa Fia	天州 7can S . Su	P	
	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。							
	Result 测试结果	7ias Sa	天衛	K VA 7ian Su	* Ti	州 in Sa	į.	
Sample		e Test 式前		After Test 测试后		Residual OCV	Test result	
No. 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#	42.739	55.065	42.739	54.773	0.00	99.47	Р	
B02#	42.733	55.429	42.733	55.163	0.00	99.52	Р	
B03#	42.745	55.389	42.745	55.123	0.00	99.52	Р	
- 4 Th	42.745	55.935	42.745	55.633	0.00	99.46	Р	

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

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38.3.4	Procedure/测	试步骤					1 an 2 "		
天湖	Test 3: Vibra	tion/测试 3: 振	动力加加	29	未 潮	- 74an - 1340			
	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 年固地安装在提 然后再减少回到	manner as to faith a logarithmic This cycle shall Indicular mount 员动台的台面上, 到 7Hz 为一个循	hithfully transmin sweep between be repeated 12 ing position of t 然后开始振动 环,一个循环标	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	天湖 Tian Su Van Su		
38.3.4.3	1.Cells and b 样品质量 2.Open circui applicable	芯和电池从三个互相垂直的方向上循环 12 次,3 个小时。 Requirement/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							
		e, no venting, no 4)应无漏液、ヲ	1100	•	no fire. 着火现象的发生	Tian Su Figure	i.		
	Result 测试结果	152	美瀬	7ian Su	来 Tia	州 " S"	天 Vi		
Sample No.		re Test 试前	16	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#	42.739	54.773	42.739	54.751	0.00	99.96	Р		
B02#	42.733	55.163	42.733	55.152	0.00	99.98	Р		
B03#	42.745	55.123	42.745	55.084	0.00	99.93	Pian		
B04#	42.745	55.633	42.745	55.594	0.00	99.93	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					ian >"	
天概	Test 4: Shock/测试 4: 冲击							
7 in St 7 in S	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)= √							
	Requirements 1. Cells and b 样品质量损 2. Open circui applicable 样品试验后和电芯。 3. No leakage	atteries Mass lo 失≤0.1%. it voltage not les to test cells and 行开路电压应不作 s, no venting, no	oss limit: ≤0.1% ss than 90%, Tr l batteries at full 氐于试验前开路।	ne requirement discharged sta 电压的 90%,此	要求不适用于完全	全放完电的电池	Tian 3" E 開 Tian 5"	
天哪	Result/测试组	吉果	Tian Su	<u></u>	潮 S*	* #A	interior Si	
Sample No.	58.0	re Test 试前	2.0	· 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#	42.739	54.751	42.739	54.713	0.00	99.93	P	
B02#	42.733	55.152	42.733	55.113	0.00	99.93	Р	
B03#	42.745	55.084	42.745	55.023	0.00	99.89	P 5	

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

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38.3.4	Procedure/测试步骤		天湖 一
我说	Test 5: External short	circuit/测试 5: 外部短路	Trans
7 (an Su 7 (an Su 38.3.4.5 (A)	temperature reaches 5 circuit condition with a circuit condition is contitemperature has return hour for the test to be certification (保持试验环境温度稳定,此温度下,将其正负极用	e tested shall be temperature stabilized of 7℃±4℃ and then the cell or battery shatotal external resistance of less than 0.1 inued for at least one hour after the cell ed to 57℃±4℃, the cell or battery must concluded. 在 57℃±4℃,以使电芯或电池样品外表流小于 0.1 欧姆的线路短接,待电芯或电池, 对电芯或电池必须进一步观察 6 个小时	all be subjected to a short ohm at 57℃±4℃, This short or battery external case be observed for a further six L度达到 57℃±4℃, 然后,在 2的外表温度恢复到 57℃±4℃
	170℃; 电芯或电池的外壳温 2. No disassembly, no i	eet this requirement if their external tem	Tian St Tian St
	Result 测试结果	天開 Tun Su	7 can Se
Sample No. 样品编号	大湖 7ian: 7ian:Su	Max External Temp 样品表面最高温度(℃)	Test result 测试结果
B01#	天 潮	57.6	天瀬 P
B02#	E MA	58.2	天 M Tian Sa
A		7 in 5" Kills	美術 P
B03#			

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

Rep. No	D.:TSZ22050077	-P03-R01
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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)	3.0
	Crush 挤压	Pian 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.	课 iae Su
	(a) The applied force reaches 13kN±0.78kN;	8
	(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.	天 节 Tian
	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 湖
	(a)作用力达到 13kN±0.78kN;	Tian 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 d
	Impact 撞击	K. Tian
	(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 \pm 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 \pm 0.1 kg mass is to be dropped from a height of 61cm \pm 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 Tian Su 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.	Franco.
	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.	F WA Tian 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	(A : Sa 天
	发生。	170
	Requirement/标准要求:	
	1.Cells and component cells meet this requirement if their external temperature does not exceed 170℃;	天湖 Tian Sa
	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.	(6)
	2. No disassembly, no life during the test and within six nodis after this test. 试验后 6 小肘内无解体 无起火.	WA.

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u.	Result 测试结果	天開 Tian Su Fian Su	7ion ≥11 }
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#	3.280 5 MA	24.9	P-im Su
C02#	3.278	23.8 7im Su	Р
C03#	3.279	23.5	ŀ. P
C04#	3.278	24.5 A A A	Р
C05#	3.245	24.2	Р
C06#	3.278	24.5	Р
C07#	3.272 Tan Su	24.4	Pian Su
C08#	3.245	24.0	Р
C09#	3.278	24.1	Tian P
C10#	3.254	23.8 7 in 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	_			
天湖 7ian Su 7ian Su 38.3.4.7 湖 7ian Su 天湖	Test 7: Overcharge/测试 7: 过度充电 When the manufacturer's recommended charge 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 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充电电压或者是 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 1.2				
		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 V Tian		
	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. W. Trans			
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 resul 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 试验前电压 (V) 54.821	测试结果			

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38.3.4	Procedure/测试步骤		710151	天觀	_	
	Test 8: Forced discharge/测	则试 8: 强制放电	E		**A	
7 ian Su 7 ian Su 38.3.4.8 7 ian Su 7 ian Su	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 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	n	天湖 Tian Su	文WA Tian Sii 天開。	F MA Team Su	
	测试结果 测试结果					
Sample No. 样品编号	测试结果 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	
/	OCV prior to test		- MA		7 2	
样品编号	OCV prior to test 试验前电压(V)	测试结果	样品编号	试验前电压 (V)	测试结果	
样品编号 C11#	OCV prior to test 试验前电压(V) 2.885	测试结果 P	样品编号 C21#	试验前电压 (V) 2.873	测试结果 P	
样品编号 C11# C12#	OCV prior to test 试验前电压(V) 2.885 2.920	测试结果 P P	样品编号 C21# C22#	试验前电压 (V) 2.873 2.879	测试结果 P P	
样品编号 C11# C12# C13#	OCV prior to test 试验前电压(V) 2.885 2.920 2.939	测试结果 P P	样品编号 C21# C22# C23#	试验前电压 (V) 2.873 2.879 2.863	测试结果 P P	
样品编号 C11# C12# C13# C14#	OCV prior to test 试验前电压(V) 2.885 2.920 2.939 2.903	测试结果 P P P	样品编号 C21# C22# C23# C24#	试验前电压 (V) 2.873 2.879 2.863 2.894	测试结果 P P P	
样品编号 C11# C12# C13# C14# C15#	OCV prior to test 试验前电压(V) 2.885 2.920 2.939 2.903 2.883	测试结果 P P P	样品编号 C21# C22# C23# C24# C25#	试验前电压 (V) 2.873 2.879 2.863 2.894 2.943	测试结果 P P P	
样品编号 C11# C12# C13# C14# C15# C16#	OCV prior to test 试验前电压(V) 2.885 2.920 2.939 2.903 2.883 2.932	测试结果 P P P	样品编号 C21# C22# C23# C24# C25#	试验前电压 (V) 2.873 2.879 2.863 2.894 2.943 2.886	测试结果 P P P P	
样品编号 C11# C12# C13# C14# C15# C16# C17#	OCV prior to test 试验前电压(V) 2.885 2.920 2.939 2.903 2.883 2.932 2.919	测试结果 P P P	样品编号 C21# C22# C23# C24# C25# C26# C27#	试验前电压 (V) 2.873 2.879 2.863 2.894 2.943 2.886 2.900	测试结果 P P P P	

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STATEMENTS

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