



中国认可
国际互认
检测
TESTING
CNAS L3187

检测报告

Test Report

No:UNWT(2024)12108G

样品名称: 可充电锂离子电芯

Sample Name Rechargeable Lithium-ion Cell

委托单位: 山东德晋新能源科技有限公司

Client Shandong Dejin New Energy

Science and Technology Co., Ltd.

检验类别: 委托检验

Test temp Commissioned Test

枣庄市产品质量监督检验所

Zaozhuang Institute of Supervision and Inspection on Product Quality

国家锂电池产品质量检验检测中心（山东）

National Lithium Battery Product Quality Inspection and

Testing Center (Shandong)

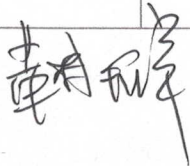
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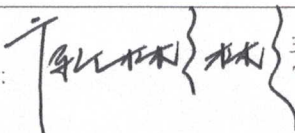
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产品名称 Sample Name	可充电锂离子电芯 Rechargeable Lithium-ion Cell		
样品标示商标 Sample Mark	 山东德晋新能源科技有限公司 SHANDONG DEJIN NEW ENERGY SCIENCE AND TECHNOLOGY CO., LTD.	样品型号 Sample Model	CBA71173207EES-314Ah
额定容量 Rated Capacity	314Ah	标称电压 Normal Voltage	3.2V
额定能量 Rated Energy	1004.8Wh	锂金属含量 Metal Content	不适用 N/A
执行标准 Executive Standard	/	样品等级 Sample Grade	/
委托单位名称/ 地址及电话 Name, Add. and Tel. of Client	山东德晋新能源科技有限公司/山东省烟台市龙口市龙口高新技术产业园区通海路南首 001 号/86-15854571603 Shandong Dejin New Energy Science and Technology Co., Ltd./No.001, South First, Tonghai Road, Longkou Hi-tech Industrial Park, Longkou City, Yantai City, Shandong Province/86-15854571603		
标示生产单位名称/地 址及电话 Name, Add. and Tel. of Manufacture	山东德晋新能源科技有限公司/山东省烟台市龙口市龙口高新技术产业园区通海路南首 001 号/86-15854571603 Shandong Dejin New Energy Science and Technology Co., Ltd./No.001, South First, Tonghai Road, Longkou Hi-tech Industrial Park, Longkou City, Yantai City, Shandong Province/86-15854571603		
到样日期 Accepted Date	2024.11.22	测试日期 Test Date	2024.11.22-2024.12.22
样品状态 Sample Status	蓝色方形 Blue Prismatic	送样人员 Sample Carrier	雷晓霞 Lei Xiaoxia
样品数量 Quantity of Sample	40 单体 40 cells		
检测依据 Test method and criterion	《试验和标准手册》第 7 修订版修正 1, 38.3 Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7/Amend1 UN38.3		
检测项目 Test items	高度模拟、温度试验、振动、冲击、外部短路、挤压、强制放电 Altitude simulation, Thermal test, Vibration, Shock, External Short-circuit, Crush, Forced discharge		
检测结论 Conclusion	经测试, 送检样品符合《试验和标准手册》第 7 修订版修正 1 第 38.3 节的测试要求。 After testing, the sample meets the requirements of Manual of Test and Criteria ST/SG/AC.10/11/Rev.7/Amend1 UN38.3. (检验检测专用章) (Stamp) 签发日期 (Issue date): 2024.12.25		
备注 Comments	委托送样检测, 检测结果仅对来样负责。 It is a entrusted sample test, the test results are only responsible for the samples.		

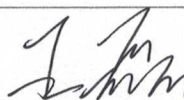
批准:
Approver:



审核:
Checker:



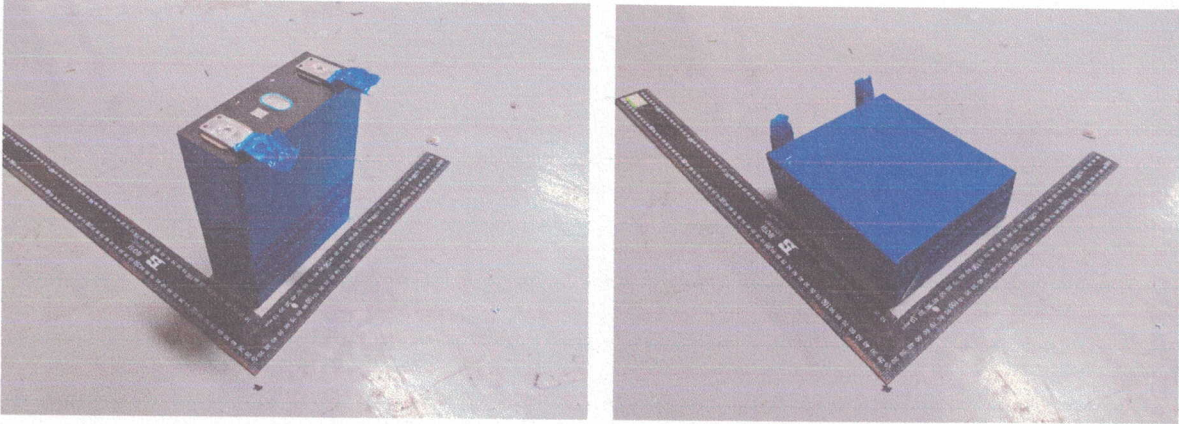
主检:
Tester:



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样品基本信息 Basic information of samples	
单体(样品编号: C01-C40)	Cells(Sample number: C01-C40)
尺寸:(207*173*71)mm	Dimensions:(207*173*71)mm
重量: 5555g±75g	Weight: 5555g±75g
容量:314Ah	Capacity: 314Ah
标称电压: 3.2V	Nominal voltage: 3.2V
Photos of Cell	
	
Marking of Cell	
	

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序号 No.	检测项目 Name of test	检测方法/标准要求 Test method and Standard requirement	子样编号 Sample number	检测结果 Test result	单项结论 Test conclusion
1	高度模拟 Altitude simulation	《试验和标准手册》试验 T.1 Manual of Tests and Criteria ST/SG/AC.10/11/ Rev.7/Amend1, 38.3, Test T.1	C01-C10	见附表 1 See Appendix 1	合格 Pass
2	温度试验 Thermal test	《试验和标准手册》试验 T.2 Manual of Tests and Criteria ST/SG/AC.10/11/ Rev.7/Amend1, 38.3, Test T.2	C01-C10	见附表 2 See Appendix 2	合格 Pass
3	振动 Vibration	《试验和标准手册》试验 T.3 Manual of Tests and Criteria ST/SG/AC.10/11/ Rev.7/Amend1, 38.3, Test T.3	C01-C10	见附表 3 See Appendix 3	合格 Pass
4	冲击 Shock	《试验和标准手册》试验 T.4 Manual of Tests and Criteria ST/SG/AC.10/11/ Rev.7/Amend1, 38.3, Test T.4	C01-C10	见附表 4 See Appendix 4	合格 Pass
5	外部短路 External Short-circuit	《试验和标准手册》试验 T.5 Manual of Tests and Criteria ST/SG/AC.10/11/ Rev.7/Amend1, 38.3, Test T.5	C01-C10	见附表 5 See Appendix 5	合格 Pass
6	撞击 Impact	《试验和标准手册》试验 T.6 Manual of Tests and Criteria ST/SG/AC.10/11/ Rev.7/Amend1, 38.3, Test T.6	N/A	N/A	N/A
	挤压 Crush		C11-C20	见附表 6 See Appendix 6	合格 Pass
7	过度充电 Overcharge	《试验和标准手册》试验 T.7 Manual of Tests and Criteria ST/SG/AC.10/11/ Rev.7/Amend1, 38.3, Test T.7	N/A	N/A	N/A
8	强制放电 Forced discharge	《试验和标准手册》试验 T.8 Manual of Tests and Criteria ST/SG/AC.10/11/ Rev.7/Amend1, 38.3, Test T.8	C21-C40	见附表 7 See Appendix 7	合格 Pass
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附表 1
Appendix 1

测试项目 Test Items	高度模拟 Altitude simulation						
1.1	测试步骤 Test procedure						
	试验电池和电池组在环境温度(20±5℃)下, 储存在小于等于 11.6kPa 的压力下至少六小时。 Test cells and batteries shall be stored at a pressure of 11.6kPa or less for at least six hours at ambient temperature (20±5℃).						
1.2	样品状态 Sample status						
	C01-C05: 第 1 个循环完全充电状态。 C01-C05: first cycle, fully charged state.						
	C06-C10: 25 个循环后完全充电状态。 C06-C10: 25th cycle, fully charged state.						
1.3	测试结果 Result						
样品编号 Sample No.	测试前/Before		测试后/After		质量损失 Mass Loss (%)	剩余电压 Residual OCV (%)	测试结果 Test Result
	质量/Mass (kg)	开路电压/OCV (V)	质量/Mass (kg)	开路电压/OCV (V)			
C01	5.586	3.381	5.585	3.379	0.018%	99.94%	O
C02	5.584	3.378	5.584	3.377	0.000%	99.97%	O
C03	5.589	3.384	5.588	3.383	0.018%	99.97%	O
C04	5.587	3.377	5.587	3.375	0.000%	99.94%	O
C05	5.583	3.379	5.583	3.378	0.000%	99.97%	O
C06	5.586	3.380	5.586	3.379	0.000%	99.97%	O
C07	5.585	3.383	5.585	3.381	0.000%	99.94%	O
C08	5.587	3.385	5.586	3.384	0.018%	99.97%	O
C09	5.589	3.379	5.589	3.379	0.000%	100.00%	O
C10	5.586	3.381	5.586	3.380	0.000%	99.97%	O
注: L-泄漏; V-排气; D-解体; R-破裂; F-起火; O-无泄漏、无排气、无解体、无破裂、无起火。 Note: L-Leakage V-Venting, D -Disassembly, R -Rupture, F-Fire, O-No leakage, no venting, no disassembly, no rupture & no fire.							

附表 2
Appendix 2

Appendix 2

测试项目 Test Items	温度试验 Thermal test						
1.1	测试步骤 Test procedure						
	将测试电池和电池组在温度为 $72\pm 2^{\circ}\text{C}$ 的条件下贮存不少于 6 个小时，然后在温度 $-40\pm 2^{\circ}\text{C}$ 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 10 次，然后将测试电池和电池组在环境温度为 $20\pm 5^{\circ}\text{C}$ 的条件下放置 24 个小时。 Test cells and batteries are to be stored for at least six hours at a test temperature equal to $72\pm 2^{\circ}\text{C}$, followed by storage for at least six hours at a test temperature equal to $-40\pm 2^{\circ}\text{C}$. 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 ($20\pm 5^{\circ}\text{C}$).						
1.2	样品状态 Sample status						
	C01-C05: 第 1 个循环完全充电状态。 C01-C05: first cycle, fully charged state.						
	C06-C10: 25 个循环后完全充电状态。 C06-C10: 25th cycle, fully charged state.						
1.3	测试结果 Result						
样品编号 Sample No.	测试前/Before		测试后/After		质量损失 Mass Loss (%)	剩余电压 Residual OCV (%)	测试结果 Test Result
	质量/Mass (kg)	开路电压 /OCV (V)	质量/Mass (kg)	开路电压 /OCV (V)			
C01	5.585	3.379	5.585	3.332	0.000%	98.61%	O
C02	5.584	3.377	5.585	3.335	-0.018%	98.76%	O
C03	5.588	3.383	5.589	3.340	-0.018%	98.73%	O
C04	5.587	3.375	5.587	3.330	0.000%	98.67%	O
C05	5.583	3.378	5.583	3.328	0.000%	98.52%	O
C06	5.586	3.379	5.586	3.337	0.000%	98.76%	O
C07	5.585	3.381	5.585	3.333	0.000%	98.58%	O
C08	5.586	3.384	5.587	3.336	-0.018%	98.58%	O
C09	5.589	3.379	5.589	3.339	0.000%	98.82%	O
C10	5.586	3.380	5.586	3.335	0.000%	98.67%	O
注：L-泄漏；V-排气；D-解体；R-破裂；F-起火；O-无泄漏、无排气、无解体、无破裂、无起火。 Note: L-Leakage, V-Venting, D-Disassembly, R-Rupture, F-Fire, O-No leakage, no venting, no disassembly, no rupture & no fire.							

附表 3
Appendix 3

测试项目 Test Items	振动 Vibration																																																																																											
1.1	测试步骤 Test procedure																																																																																											
	将电池组牢固地安装在振动台的台面上，同时确保电芯和电池没有变形，以此保证振动有效地传播。振动为正弦波形式，从 7Hz 保持 1g _n 的峰值加速度，直到达到 18Hz。然后，振幅保持在 0.8mm（1.6mm 总偏移），频率增加直到达到 8g _n 的峰值加速度（约 25Hz）。然后保持 8g _n 的峰值加速度，直到频率增加到 200Hz。每个电池和电池组需在三个互相垂直的安装方向上循环 12 次振动，且其中一个振动方向必须与端面垂直，总共为时 3 小时。																																																																																											
	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 waveform with a logarithmic sweep from 7 Hz to a peak acceleration of 1 g _n is maintained until 18 Hz is reached. The amplitude is then maintained at 0.8 mm (1.6 mm total excursion) and the frequency increased until a peak acceleration of 8 g _n occurs (approximately 25 Hz). A peak acceleration of 8 g _n is then maintained until the frequency is increased to 200 Hz. This cycle shall be repeated 12 times for a total of 3 hours for each of three mutually perpendicular mounting positions of the cell. One of the directions of vibration must be perpendicular to the terminal face.																																																																																											
1.2	样品状态 Sample status																																																																																											
	C01-C05: 第 1 个循环完全充电状态。 C01-C05: first cycle, fully charged state.																																																																																											
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1.3	测试结果 Result																																																																																											
样品编号 Sample No.	<table><tr><th colspan="2">测试前/Before</th><th colspan="2">测试后/After</th><th rowspan="2">质量损失 Mass Loss (%)</th><th rowspan="2">剩余电压 Residual OCV (%)</th><th rowspan="2">测试结果 Test Result</th></tr><tr><th>质量/Mass (kg)</th><th>开路电压 /OCV(V)</th><th>质量/Mass (kg)</th><th>开路电压 /OCV(V)</th></tr><tr><td>C01</td><td>5.585</td><td>3.332</td><td>5.585</td><td>3.332</td><td>0.000%</td><td>100.00%</td><td>O</td></tr><tr><td>C02</td><td>5.584</td><td>3.335</td><td>5.584</td><td>3.335</td><td>0.000%</td><td>100.00%</td><td>O</td></tr><tr><td>C03</td><td>5.588</td><td>3.340</td><td>5.587</td><td>3.340</td><td>0.018%</td><td>100.00%</td><td>O</td></tr><tr><td>C04</td><td>5.587</td><td>3.330</td><td>5.586</td><td>3.329</td><td>0.018%</td><td>99.97%</td><td>O</td></tr><tr><td>C05</td><td>5.583</td><td>3.328</td><td>5.583</td><td>3.328</td><td>0.000%</td><td>100.00%</td><td>O</td></tr><tr><td>C06</td><td>5.586</td><td>3.337</td><td>5.586</td><td>3.335</td><td>0.000%</td><td>99.94%</td><td>O</td></tr><tr><td>C07</td><td>5.585</td><td>3.333</td><td>5.585</td><td>3.333</td><td>0.000%</td><td>100.00%</td><td>O</td></tr><tr><td>C08</td><td>5.586</td><td>3.336</td><td>5.585</td><td>3.336</td><td>0.018%</td><td>100.00%</td><td>O</td></tr><tr><td>C09</td><td>5.589</td><td>3.339</td><td>5.588</td><td>3.338</td><td>0.018%</td><td>99.97%</td><td>O</td></tr><tr><td>C10</td><td>5.586</td><td>3.335</td><td>5.586</td><td>3.335</td><td>0.000%</td><td>100.00%</td><td>O</td></tr></table>	测试前/Before		测试后/After		质量损失 Mass Loss (%)	剩余电压 Residual OCV (%)	测试结果 Test Result	质量/Mass (kg)	开路电压 /OCV(V)	质量/Mass (kg)	开路电压 /OCV(V)	C01	5.585	3.332	5.585	3.332	0.000%	100.00%	O	C02	5.584	3.335	5.584	3.335	0.000%	100.00%	O	C03	5.588	3.340	5.587	3.340	0.018%	100.00%	O	C04	5.587	3.330	5.586	3.329	0.018%	99.97%	O	C05	5.583	3.328	5.583	3.328	0.000%	100.00%	O	C06	5.586	3.337	5.586	3.335	0.000%	99.94%	O	C07	5.585	3.333	5.585	3.333	0.000%	100.00%	O	C08	5.586	3.336	5.585	3.336	0.018%	100.00%	O	C09	5.589	3.339	5.588	3.338	0.018%	99.97%	O	C10	5.586	3.335	5.586	3.335	0.000%	100.00%	O
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附表 4

测试项目 Test Items	冲击 Shock						
1.1	测试步骤 Test procedure						
	将测试电池和电池组用坚硬支架紧固在试验装置上，支架支撑着每个试验样品的所有安装面。每个测试电池和电池组须经受最大加速度 150g_n 和脉冲持续时间 6 毫秒的半正弦波冲击。每个电池和电池组需在三个互相垂直的正方向经受三次冲击，然后在反方向经受三次冲击，总共 18 次。 Test cells and batteries shall be secured to the testing machine by means of a rigid mount which will support all mounting surfaces of each test battery. Each cell shall be subjected to a half-sine shock of peak acceleration of 150 g_n and pulse duration of 6 milliseconds. Each cell or battery shall be subjected to three shocks in the positive direction and to three shocks in the negative direction in each of three mutually perpendicular mounting positions of the cell or battery for a total of 18 shocks.						
1.2	样品状态 Sample status						
	C01-C05: 第 1 个循环完全充电状态。 C01-C05: first cycle, fully charged state.						
	C06-C10: 25 个循环后完全充电状态。 C06-C10: 25th cycle, fully charged state.						
1.3	测试结果 Result						
样品编号 Sample No.	测试前/Before		测试后/After		质量损失 Mass Loss (%)	剩余电压 Residual OCV (%)	测试结果 Test Result
	质量/Mass (kg)	开路电压 /OCV (V)	质量/Mass (kg)	开路电压 /OCV (V)			
C01	5.585	3.332	5.585	3.331	0.000%	99.97%	O
C02	5.584	3.335	5.584	3.334	0.000%	99.97%	O
C03	5.587	3.340	5.586	3.340	0.018%	100.00%	O
C04	5.586	3.329	5.586	3.329	0.000%	100.00%	O
C05	5.583	3.328	5.583	3.328	0.000%	100.00%	O
C06	5.586	3.335	5.586	3.334	0.000%	99.97%	O
C07	5.585	3.333	5.584	3.332	0.018%	99.97%	O
C08	5.585	3.336	5.585	3.336	0.000%	100.00%	O
C09	5.588	3.338	5.588	3.337	0.000%	99.97%	O
C10	5.586	3.335	5.586	3.334	0.000%	99.97%	O

注：L-泄漏；V-排气；D-解体；R-破裂；F-起火；O-无泄漏、无排气、无解体、无破裂、无起火。
Note: L-Leakage, V-Venting, D-Disassembly, R-Rupture, F-Fire, O-No leakage, no venting, no disassembly, no rupture & no fire.

附表 5
Appendix 5

测试项目 Test Items	外部短路 External short circuit	
1.1	测试步骤 Test procedure	
	测试电池和电池组应加热一段必要的时间，使得其外壳温度达到均匀稳定的 $57\pm 4^{\circ}\text{C}$。这段加热时间的长短取决于电池和电池组的设计尺寸大小，同时这段加热时间应加以评估和记录。若无法评估加热时间，则大型电池和电池组的暴露时间应至少 12 小时。然后，电池或电池组应在 $57\pm 4^{\circ}\text{C}$ 条件下经受总外电阻小于 0.1 欧姆的外短路，直至大型电池组的外壳温度降幅达试验中所观察的最高温升幅的二分之一并保持低于该数值。短路和降温阶段的温度应至少相当于环境温度。 The cell or battery to be tested shall be heated for a period of time necessary to reach a homogeneous stabilized temperature of $57\pm 4^{\circ}\text{C}$, measured on the external case. This period of time depends on the size and design of the cell or battery and should be assessed and documented. If this assessment is not feasible, the exposure time shall be at least 12 hours for large cells and large batteries. Then the cell or battery at $57\pm 4^{\circ}\text{C}$ shall be subjected to one short circuit condition with a total external resistance of less than 0.1 ohm. This short circuit condition is continued after the large batteries external case temperature has decreased by half of the maximum temperature increase observed during the test and remains below that value.	
	样品状态 Sample status	
1.2	C01-C05: 第 1 个循环完全充电状态。 C01-C05: first cycle, fully charged state.	
	C06-C10: 25 个循环后完全充电状态。 C06-C10: 25th cycle, fully charged state.	
1.3	测试结果 Result	
样品编号 Sample No.	样品表面最高温度($^{\circ}\text{C}$) Max. External Temperature	测试结果 Test Result
C01	58.60	O
C02	59.20	O
C03	58.60	O
C04	59.70	O
C05	60.40	O
C06	60.70	O
C07	61.20	O
C08	59.70	O
C09	59.50	O
C10	61.30	O
注： D- 解体； R- 破裂； F- 起火； O- 无泄漏、无排气、无解体、无破裂、无起火。 Note: D -Disassembly, R -Rupture, F-Fire, O-No leakage, no venting, no disassembly, no rupture & no fire.		

附表 6
Appendix 6

测试项目 Test Items	挤压 Crush				
1.1	测试步骤 Test procedure				
	将未进行其他检测试验的电芯或组成电池的电芯放在两个平面之间挤压，挤压力度逐渐加大，在第一个接触点上的速度大约为 1.5cm/s。挤压持续进行，直到出现以下三种情况之一： (1) 挤压力达到 13 kN±0.78 kN； (2) 电池电压下降了至少 100mV； (3) 电池厚度和最初比较，变形 50%或以上。 对棱柱或袋形电池，应对最宽面进行挤压；对钮扣电池应对平面进行挤压；对圆柱形电池，应在纵轴的垂直方向进行挤压。试验结束后应继续观察 6h。 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. (a) The applied force reaches 13 kN ± 0.78 kN; (b) The voltage of the cell drops by at least 100 mV; or (c) The cell is deformed by 50% or more of its original thickness. A prismatic or pouch cell shall be crushed by applying the force to the widest side. A button/coin cell shall be crushed by applying the force on its flat surfaces. For cylindrical cells, the crush force shall be applied perpendicular to the longitudinal axis. The test sample shall be observed for a further 6h.				
	样品状态 Sample status				
	C11-C15: 第 1 个循环后 50%的额定容量。 C11-C15: first cycle, 50% charged state. C16-C20: 25 个循环后 50%的额定容量。 C16-C20: 25th cycle, 50% charged state.				
1.3	测试结果 Result				
样品编号 Sample No.	样品表面最高温度(°C) Max. External Temperature	测试结果 Test Result	样品编号 Sample No.	样品表面最高温度(°C) Max. External Temperature	测试结果 Test Result
C11	19.60	O	C16	19.20	O
C12	19.30	O	C17	19.40	O
C13	19.50	O	C18	19.60	O
C14	19.50	O	C19	19.60	O
C15	19.30	O	C20	19.50	O
注：D- 解体；R- 破裂；F- 起火；O- 无泄漏、无排气、无解体、无破裂、无起火。 Note: D -Disassembly, R -Rupture, F-Fire, O-No leakage, no venting, no disassembly, no rupture & no fire.					

附表 7

Appendix 7

测试项目 Test Items	强制放电 Forced discharge		
1.1	测试步骤 Test procedure		
	在 20±5℃的环境温度下，将单个电池连接在 12V 的直流电源上进行强制放电，此直流电源提供每个电池初始电流为制造厂指定的最大放电电流，放电时间（h）为额定容量除以初始电流（A）。 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).		
	样品状态 Sample status		
1.2	C21-C30: 第 1 个循环完全放电状态。 C21-C30: first cycle, fully discharged state.		
	C31-C40: 25 个循环后完全放电状态。 C31-C40: 25th cycle, fully discharged state.		
1.3	测试结果 Result		
样品编号 Sample No.	测试结果 Test Result	样品编号 Sample No.	测试结果 Test Result
C21	O	C31	O
C22	O	C32	O
C23	O	C33	O
C24	O	C34	O
C25	O	C35	O
C26	O	C36	O
C27	O	C37	O
C28	O	C38	O
C29	O	C39	O
C30	O	C40	O
注：D-解体；F-起火；O-无解体、无起火。 Note: D -Disassembly, F-Fire, O-No disassembly, no fire.			

注意事项 Attentions

1. 报告无“检验检测专用章”无效。

The test report is invalid without the special seal for inspection report.

2. 报告无主检、审核、批准人签字（或等效标识）无效。

The test report is invalid without the signatures or equivalent identification of Approver, Checker and Tester.

3. 报告涂改无效。

The test report is invalid if altered.

4. 未经我单位批准，不得复制（全文复制除外）本报告。

The test report is not allowed to copy without the permission of our unit, except to copy the whole test.

5. 复制报告未重新加盖“检验检测专用章”无效。

The copy of the report is invalid without re-stamping the special seal for inspection report.

6. 委托送样检验，检验结果仅对来样负责。

For the commissioned test, the test results are only responsible for the samples.

7. 检验项目中注“※”者，为分包检验项目。

The item is subcontracted test if there's a mark of ※.

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