

UN38.3 测试报告

UN38.3 Test Report

报告编号 Report No.: SA1911437U 02001

样品名称: 锂离子电芯
Sample Name: Lithium-ion Cell

样品型号: SW26650-50ME
Model:

委托单位: 东莞市振华新能源科技有限公司
Applicant: Sinowatt Dongguan Limited

签发日期: 2019-12-19
Issue Date:

东莞市安磁检测技术有限公司
Dongguan Anci Electronic Technology Co., Ltd.



样品描述Sample Description			
样品名称 Sample Name	锂离子电芯 Lithium-ion Cell	样品型号 Model Name	SW26650-50ME
测试实验室 Testing laboratory	东莞市安磁检测技术有限公司 Dongguan Anci Electronic Technology Co., Ltd.		
测试地址 Testing Address	广东东莞市松山湖高新技术产业开发区总部2路11号A座1-2层 1-2 Floor, Building A, No.11, Headquarters 2 Road, Songshan Lake Hi-tech Industrial, Development Zone, Dongguan City, Guangdong Pr. China		
委托单位 Applicant	东莞市振华新能源科技有限公司 Sinowatt Dongguan Limited		
委托单位地址 Applicant Address	中国广东省东莞市凤岗镇黄洞玉泉工业区 Yuquan Industrial Zone, Huangdong, Fenggang Town, Dongguan, Guangdong Province, P.R. China		
生产单位 Manufacturer	东莞市振华新能源科技有限公司 Sinowatt Dongguan Limited		
生产单位地址 Manufacturer Address	中国广东省东莞市凤岗镇黄洞玉泉工业区 Yuquan Industrial Zone, Huangdong, Fenggang Town, Dongguan, Guangdong Province, P.R. China		
测试标准 Standard	ST/SG/AC.10/11/Rev.6/Amend.1 Section 38.3		
测试日期 Tested date	2019-12-01 to 2019-12-16		
检验结论/Test conclusion: The Cylindrical Lithium-ion Cell submitted by Sinowatt Dongguan Limited are tested according to Section 38.3 of the six 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. 由东莞市振华新能源科技有限公司送检的圆柱形锂离子电芯, 依据《关于危险品货物运输的建议书》试验和标准手册第六修订版修正1第38.3节进行检测, 试验为全项目, 测试结果符合标准相关要求。			

检测 Tested by

陈保霖

审核 Reviewed by

陈建宏

批准 Approved by

陈建宏



Dongguan Anci Electronic Technology Co., Ltd.

Address: 1-2 Floor, Building A, No.11, Headquarters 2 Road, Songshan Lake Hi-tech Industrial, Development Zone, Dongguan City, Guangdong Pr. China

Tel: 0769-85075888 Fax: 0769-58075898

E-mail: net@anci.com Web: http://www.anci.com.cn

基本参数 Specifications			
标称电压 Nominal Voltage	3.6V	额定容量 Rated Capacity	5000mAh
瓦时 Watt-hour	18Wh	商标 Trade mark	--
充电上限电压 Limited Charge Voltage	4.2V	截止电压 Cut-off Voltage	2.75V
充电电流 Charge Current	1000mA	最大持续充电电流 Max. Continuous Charge Current	2500mA
放电电流 Discharge Current	1000mA	最大持续放电电流 Max. Continuous Discharge Current	15000mA
充电截止电流 End Charge Current	100mA	电池尺寸 Battery dimensions	26mm(D)*65.4mm(H)
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: 1. 本报告中以点代替小数点。 Throughout this report a comma is used as the decimal separator. 2. 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”.			

Summary of testing:

Tests performed (name of test and test clause):

Test items	Sample Number
T.1: Altitude simulation / 高度模拟	C1# - C10#
T.2: Thermal test / 温度测试	
T.3: Vibration / 振动	
T.4: Shock / 冲击	
T.5: External short circuit / 外接短路	
T.6: Crush / 挤压 or Impact / 撞击	C11# - C20#
T.7 Overcharge / 过充电	--
T.8: Forced discharge / 强制放电	C21# - C40#

The sample's status is good.

样品状况良好。

Rechargeable cells of C1#~C5# are full charged after one cycle;
可充电电芯C1#~C5#为1次循环满电状态；

Rechargeable cells of C6#~C10# are full charged after twenty-five cycles;
可充电电芯C6#~C10#为25次循环满电状态；

Rechargeable cells of C11#~C15# are 50% charged after one cycle;
可充电电芯C11#~C15#为1次循环后50%充电状态；

Rechargeable cells of C16#~C20# are 50% charged after twenty-five cycles;
可充电电芯C16#~C20#为25次循环后50%充电状态；

Rechargeable cells of C21#~C30# are full discharged after one cycle;
可充电电芯C21#~C30#为1次循环完全放电状态；

Rechargeable cells of C31#~C40# are full discharged after twenty-five cycles;
可充电电芯C31#~C40#为25次循环完全放电状态；

Testing location:

测试地点:

东莞市安磁检测技术有限公司

Dongguan Anci Electronic Technology Co., Ltd.

广东东莞市松山湖高新技术产业开发区总部2路11号A座1-2层

1-2 Floor, Building A, No.11, Headquarters 2 Road, Songshan Lake Hi-tech Industrial, Development Zone, Dongguan City, Guangdong Pr. China

Test Procedure:

1. Each battery type is subjected to tests T.1 to T.8, Tests T.1 to T.5 are conducted in sequence on the same battery, Tests 6 and 8 are conducted using not otherwise tested batteries, Test T.7 may be conducted using undamaged batteries previously used in Tests T.1 to T.5 for purposes of testing on cycled batteries.

每一种类型的电池均应进行T.1至T.8项试验，电池必须按顺序在相同的一组电池上进行试验T.1至T.5，试验T.6和T.8应使用未另外试验过的电池，试验T.7可以使用先前在试验T.1至T.5中使用过的未损坏电池进行，以便测试进行在循环过的电池上。

2. In order to quantify the mass loss, the following procedure is provided:

Mass loss(%)=(M₁-M₂)/M₁×100.

为了量化质量损失，可用以下公式计算：质量损失(%)=(M₁-M₂)/M₁×100。

Where M₁ is the mass before the test and M₂ is the mass after the test. When mass loss does not exceed the values in Table below, it is considered as "no mass loss".

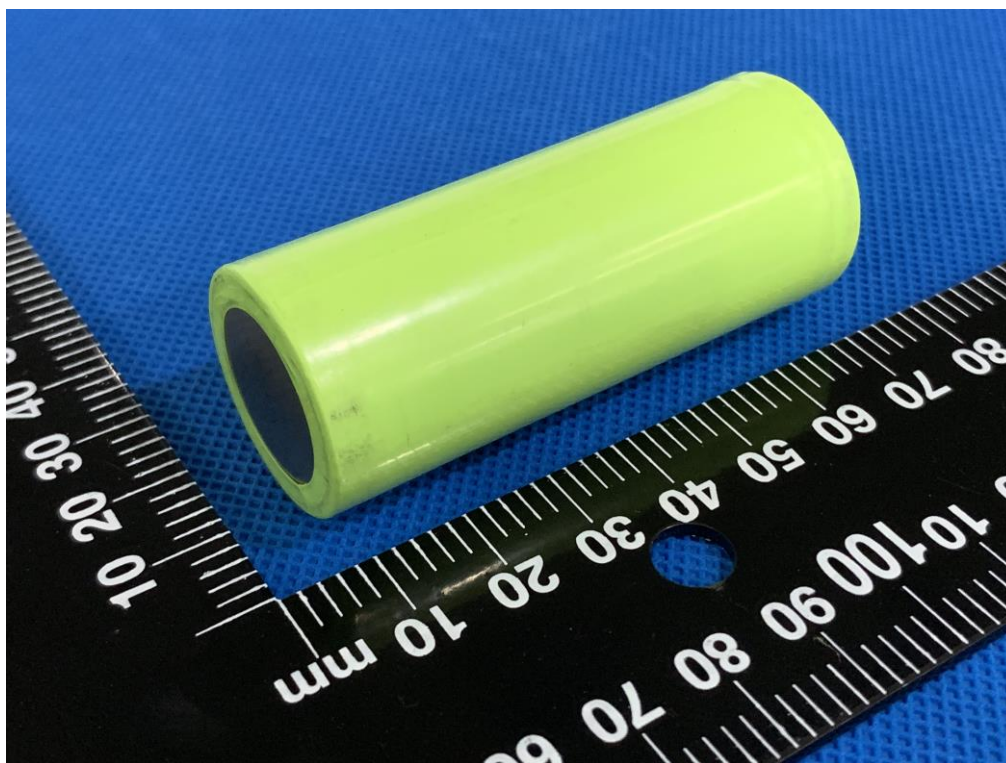
式中：M₁是试验前的质量，M₂是试验后的质量。如果质量损失不超过下表所列的数值，应视为“无质量损失”。

Mass M of cell or battery 电芯或电池的质量	Mass loss limit 质量损失限值
M<1g	0.5%
1g≤M≤75g	0.2%
M>75g	0.1%

3. In test T.1 to T.4, batteries meet this requirement if there is no leakage, no venting, no disassembly, no rupture and no fire and if the open circuit voltage of each test battery after testing is not less than 90% of its voltage immediately prior to this procedure.

在测试T.1至T.4中，电池须满足无渗漏、无泄气、无解体、无破裂和无起火，并且每个试验电池在试验后的开路电压不小于其在进行这一试验前电压的90%。

Photos of Samples and Labels/样品照片及标识



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Tel: 0769-85075888 Fax: 0769-58075898

E-mail: net@anci.com Web: <http://www.anci.com.cn>

38.3.4	Procedure / 测试步骤		P
38.3.4.1	Test 1: Altitude simulation / 测试1: 高度模拟		P
	Test cells and batteries shall be stored at a pressure of 11.6kPa or less for at least six hour at ambient temperature (20±5℃). 将电芯和电池在温度为20±5℃，大气压力为不大于1.6kpa的环境中贮存不少于6个小时。		P
	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。	No leakage, no venting, no disassembly, no rupture and no fire. 无漏液、无排气、无解体、无破裂以及无着火现象。 The data see table 1. /测试数据见表1。	P
38.3.4.2	Test 2: Thermal test / 测试 2: 温度实验		P
	Test cells and batteries are to be stored for 电池存储条件如下: 1. one temperature cycle: 72±2℃(6h) — -40±2℃(6h). 一次温度循环为72±2℃(6h) — -40±2℃(6h)。 2. The maximum time interval between test temperature extremes is 30 minutes. 温度转换最大间隔时间为30mins。 3. This procedure is to be repeated 10 times. 重复10次循环。 4. after which all test cells and batteries are to be stored for 24 hours at ambient temperature (20±5℃) 循环结束后，电池在20±5℃的条件下搁置24小时。		P

	Requirements / 标准要求: 1. Cells and batteries Mass loss limit: $\leq 0.1\%$. 样品质量损失$\leq 0.1\%$. 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。	No leakage, no venting, no disassembly, no rupture and no fire. 无漏液、无排气、无解体、无破裂以及无着火现象。 The data see table 1. /测试数据见表1。	P
38.3.4.3	Test 3: Vibration / 测试 3: 振动 1. Cells and batteries are firmly secured to the platform of the vibration machine. 电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 logarithmic sweep between 7 Hz and 200 Hz and back to 7 Hz traversed in 15 minutes. 振动以正弦波形式，以7Hz增加至200Hz，然后在减少回到7Hz 为一个循环，一个循环持续15分钟的对数前移传送。 3. the logarithmic frequency sweep is as follows: from 7 Hz a peak acceleration of 1 gn 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 gn occurs (approximately 50Hz), A peak acceleration of 8 gn is then maintained until the frequency is increased to 200 Hz. 对数扫频为:从7赫兹开始保持1gn的最大加速度直到频率为18 赫兹，然后将振幅保持在0.8毫米（总偏移1.6毫米）并增加频率直到最大加速度达到8gn（频率约为50赫兹），将最大加速度保持在8gn直到频率增加到200赫兹。 4. This cycle repeated 12 times for a total of 3 hours for each of three mutually perpendicular mounting position of the cell. One of the directions of vibration must be perpendicular to the terminal face. 以振动的其中一个方向必须是垂直样品极性，对每个电芯从三个互相垂直的方向上循环12次，每个方向3个小时，共9小时。		P

	Requirements / 标准要求: 1. Cells and batteries Mass loss limit: $\leq 0.1\%$. 样品质量损失$\leq 0.1\%$. 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。	No leakage, no venting, no disassembly, no rupture and no fire. 无漏液、无排气、无解体、无破裂以及无着火现象。 The data see table 1. /测试数据见表1。	P
38.3.4.4	Test 4: Shock / 测试 4: 冲击 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 or battery shall be subjected to a half-sine shock of peak acceleration of 150 gn and pulse duration of 6 milliseconds. Alternatively, large cells may be subjected to a half-sine shock of peak acceleration of 50 gn and pulse duration of 11 milliseconds. 被测电芯和电池应通过坚固的方式紧固在试验设备上，可以支撑每个被测电池的所有面。每个电芯或电池应用峰值加速度150gn、脉冲时间6ms的半正弦波进行冲击。或者大电芯应用峰值加速度50gn、脉冲时间11ms的半正弦波进行冲击。		P
			N/A

	1. The cell or battery to be tested shall be temperature stabilized so that its external case temperature reaches $57\pm4^{\circ}\text{C}$. 保持试验环境温度稳定在$57\pm4^{\circ}\text{C}$，以使电芯或电池样品外表温度达到$57\pm4^{\circ}\text{C}$。 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 $57\pm4^{\circ}\text{C}$, This short circuit condition is continued for at least one hour after the cell or battery external case temperature has returned to $57\pm4^{\circ}\text{C}$. 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$57\pm4^{\circ}\text{C}$之后保持短路状态1小时以上。 3. the cell or battery must be observed for a further six hour for the test to be concluded. 对电芯或电池必须进一步观察6个小时才能下结论。		P
	Requirements / 标准要求: During the test and within six hours after test, the cells or batteries. 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°C. 外表温度不超过170°C。 2. No disassembly, no rupture and no fire. 无解体、无破裂和无着火现象发生。	External temperature not exceed 170°C. 外表温度不超过170°C。 No disassembly, no rupture and no fire. 无解体、无破裂和无着火现象发生。 The data see table 1. /测试数据见表1。	P
38.3.4.6	Test 6: Impact / Crush / 测试6: 撞击 / 挤压		P
	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）。		P
	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。 2. A 15.8 mm diameter bar is to be placed across the center of the sample, A 9.1kg mass is to be dropped from a height of $61\pm2.5\text{cm}$ 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$61\pm2.5\text{cm}$ 的高度落向样品。 3. 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 $\pm$ 0.1mm diameter curved surface lying across the centre of the test sample. Each sample is to be subjected to only a single impact. 接受撞击的试样，纵轴应与平坦的表面平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。每一个试样只经受一次撞击。		P

	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℃。 2. No disassembly and no fire within six hours of this test. 试验结束后6个小时之内, 电芯和聚合物电芯应无解体和无着火现象发生。	External temperature not exceed 170℃. 外表温度不超过170℃。 No disassembly, no rupture and no fire. 无解体、无破裂和无着火现象发生。 The data see table 2. /测试数据见表2。	P
	Crush (applicable to prismatic, pouch, coin/button cells and cylindrical cells less than 18mm in diameter) 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)		N/A
	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 of contact. The crushing is to be continued until the first of the three options below 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, 在第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之一: (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 毫伏。 (c) The cell is deformed by 50% or more of its original thickness. 电池变形达原始厚度的50%以上。 2. 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. 棱柱形或袋装电池应从最宽的一面施压。纽扣/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。	The applied force reaches 13 kN ± 0.78 kN. 施加的力达到13 千牛 ±0.78 千牛。	N/A
	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℃。 2. No disassembly and no fire within six hours of this test. 试验结束后6个小时之内, 电芯和聚合物电芯应无解体和无着火现象发生。		N/A
38.3.4.7	Test 7: Overcharge / 测试 7: 过充电		N/A

	1. The charge current shall be twice the manufacturer's recommended maximum continuous charge current. 以2 倍制造厂推荐的最大持续充电电流对样品充电。 2. The minimum voltage of the test shall be as follows 本测试最小电压为: a) 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 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。 b) When the manufacturer's recommended charge voltage is more than 18V, the minimum voltage of the test shall be 1.2 times the maximum charge voltage. 如果厂家推荐的充电电压超过18V, 本测试的最小充电电压应是厂家标定最大充电电压的1.2 倍。 3. Tests are to be conducted at ambient temperature 20±5℃, The duration of the test shall be 24 hours. 20±5℃的环境温度下, 试验持续24 小时。		N/A
	Requirements / 标准要求: No disassembly and no fire within seven days of this test 试验样品在试验中和试验后7 天内, 应无解体和无着火现象发生。		N/A
38.3.4.8	Test 8: Forced discharge / 测试 8: 强制放电		P
	Each cell shall be forced discharged at ambient temperature by connecting it in series with a 12 V D.C. power supply at an initial current equal to the maximum discharge current specified by the manufacturer. 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放电电流。		P
	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). 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 (安培)。		P
	Requirements / 标准要求: No disassembly and no fire within seven days of this test 试验样品在试验中和试验后7 天内, 应无解体和无着火现象发生。	No disassembly and no fire. 无解体和无着火现象。 The data see table 2. /测试数据见表2。	P

Main Test Apparatus 主要测试仪器

Serial No. 设备编号	Name of Equipment 设备名称	Model 型号	Calibration Date 校准日期	Next Calibration Date 下次校准日期
AN-020	数字万用表	FLUKE, 15B	2019/03/28	2020/03/27
AN-158	电脑式电池挤压试验机	GAOXIN, GX-5067-CSM	2019/03/28	2020/03/27
AN-159	电磁式振动试验仪	LABTONE, EV203	2019/03/22	2020/03/21
AN-160	机械式冲击试验机	LABTONE, HSKT-10	2019/03/22	2020/03/21
AN-162	电池低压高空模拟试验箱	GAOXIN, GX-3020-Z	2019/03/22	2020/03/21
AN-163	可编程恒温恒湿试验箱（快速温度变化试验箱）	GAOXIN, GX-3000-150LT	2019/03/28	2020/03/27
AN-164	电池重物冲击试验机	GAOXIN, GX-5066	2019/03/28	2020/03/27
AN-166	数显温湿度计	THPIM, X6R-TH-B	2019/03/29	2020/03/28
AN-169	电子天平秤	YINGHENG, YHC	2019/03/28	2020/03/27
AN-170	时钟	Yongchun	2019/07/17	2020/07/16
AN-171	数字大气压力表	YIOU, BY-2003P	2019/07/19	2020/07/18
AN-174	电池性能检测系统	Xinwei, CT-4008-5V12A	2019/07/11	2020/07/10
AN-175	电池性能检测系统	Xinwei, CT-4008-5V12A	2019/07/11	2020/07/10
AN-176	电池性能检测系统	Xinwei, CT-4008-5V12A	2019/07/11	2020/07/10
AN-177	电池性能检测系统	Xinwei, CT-4008-5V12A	2019/07/11	2020/07/10
AN-178	电池性能检测系统	Xinwei, CT-4008-5V12A	2019/07/11	2020/07/10
AN-185	多路温度测试仪	Rongxin, TWC-2A	2019/07/11	2020/07/10
AN-186	多路温度测试仪	Rongxin, TWC-2A	2019/07/11	2020/07/10
AN-210	直流稳压电源	Rui Yuan, WYK-6030K	2019/07/11	2020/07/10
AN-211	直流稳压电源	Rui Yuan, WYK-6030K	2019/07/11	2020/07/10
AN-212	直流稳压电源	Rui Yuan, WYK-6030K	2019/07/11	2020/07/10
AN-213	直流稳压电源	Rui Yuan, WYK-6030K	2019/07/11	2020/07/10
AN-214	直流稳压电源	Rui Yuan, WYK-6030K	2019/07/11	2020/07/10
AN-217	电池短路试验机	GAOXIN, GX-6055-B5	2019/07/11	2020/07/10
AN-223	电池短路试验机	GAOXIN	2019/01/21	2020/01/20

Table 1: T1-T5 / 表1. 试验1-试验5											
Sample No. / 样品编号	Mass prior to test / 试验前质量(g)	OCV prior to test / 试验前电压(V)	Test 1: Altitude simulation 测试 1: 高度模拟		Test 2: Thermal test 测试 2: 温度实验		Test 3: Vibration 测试 3: 振动		Test 4: Shock 测试 4: 冲击		Test 5: External Short Circuit 测试 5: 外接短路
			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. (°C) 温度(°C)
C1#	92.798	4.17	0.001	99.760	0.004	99.038	0.000	100.000	0.000	100.000	94.4
C2#	92.828	4.17	0.000	99.760	0.004	98.798	0.000	100.000	0.000	100.000	92.1
C3#	92.906	4.17	0.000	100.000	0.004	99.041	0.000	100.000	0.000	100.000	97.6
C4#	93.049	4.18	0.001	99.761	0.005	98.801	0.000	99.757	0.000	100.000	96.7
C5#	92.831	4.17	0.001	100.000	0.004	98.801	0.000	100.000	0.000	100.000	104.5
C6#	92.849	4.18	0.000	99.761	0.004	98.801	0.000	100.000	0.000	100.000	103.5
C7#	93.037	4.18	0.000	99.761	0.004	99.041	0.000	100.000	0.000	100.000	112.6
C8#	92.916	4.17	0.001	99.760	0.005	98.798	0.000	100.000	0.000	100.000	107.3
C9#	92.854	4.18	0.000	99.761	0.005	98.801	0.000	100.000	0.000	100.000	102.3
C10#	92.933	4.17	0.000	100.000	0.004	98.561	0.000	100.000	0.000	100.000	105.8

Table 2: T6-T8 / 表2. 试验6-试验8						
Test 6: Impact / Crush / 测试6: 撞击/挤压			Test 7: Overcharge / 测试7: 过充电		Test 8: Forced discharge / 测试8: 强制放电	
Sample No. / 样品编号	OCV prior to test / 试验前电压(V)	Temp. (°C) / 温度 (°C)	Sample No. / 样品编号	OCV prior to test / 试验前电压(V)	Sample No. / 样品编号	OCV prior to test / 试验前电压(V)
C11#	3.765	24.7	--	--	C21#	3.426
C12#	3.771	24.9	--	--	C22#	3.425
C13#	3.780	24.8	--	--	C23#	3.421
C14#	3.776	24.8	--	--	C24#	3.417
C15#	3.763	24.9	--	--	C25#	3.419
C16#	3.759	25.0	--	--	C26#	3.399
C17#	3.762	25.1	--	--	C27#	3.434
C18#	3.772	24.5	--	--	C28#	3.428
C19#	3.784	24.7	--	--	C29#	3.396
C20#	3.766	24.4	--	--	C30#	3.405
--	--	--	--	--	C31#	3.422
--	--	--	--	--	C32#	3.425
--	--	--	--	--	C33#	3.420
--	--	--	--	--	C34#	3.416
--	--	--	--	--	C35#	3.387
--	--	--	--	--	C36#	3.426
--	--	--	--	--	C37#	3.431
--	--	--	--	--	C38#	3.419
--	--	--	--	--	C39#	3.422
--	--	--	--	--	C40#	3.398

声明 Declaration

1. 本报告无批准人、审核人及鉴定人签名无效。

The test report is invalid without the signatures of Ratifier, Reviewer and Testing engineer.

2. 对检验报告若有异议，应于收到报告之日起十五天内向检验单位提出。

Objections to the test report must be submitted to Anci within 15 days.

3. 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 ANCI.

4. 本报告仅对送检样品负责。

The test report is valid for the tested samples only.

5. 本报告涂改无效。

The test report is invalid if altered.

--- 报告结束 ---

--- End of report ---