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No.: RZUN2023-2923

检测报告 TEST REPORT

UN38.3

NAME OF SAMPLE:	Lithium-ion Polymer Rechargeable Battery				
产品名称:	聚合物锂离子电池				
CLIENT:	Marson Technology Co.,Ltd.				
委托单位:	茂森科技股份有限公司				
CLASSIFICATION OF TEST:	Commission Test				
检测类别:	委托测试				

威凯检测技术有限公司 CVC Testing Technology Co., Ltd.

检测报告

TEST REPORT

No.: RZUN2023-2923 Page 2 of 14 Pages
Name of samples: Lithium-ion Polymer Type/Model:

Name of samples: Lithium-ion Polymer	Type/Model:			
Rechargeable Battery	型号规格: 8001-0032*00			
样品名称:聚合物锂离子电池	3,7V 1000mAh 3,70Wh			
Color: Silver	Physical shape: Prismatic			
样品颜色:银色	样品形状: 棱柱形			
Commissioned by: Marson Technology Co.,Ltd. 委托单位: 茂森科技股份有限公司	Commissioner address: 6F, No.108-1,Minquan Rd.,Xindian Dist., New Taipei City, Taiwan 委托单位地址: 台灣新北市新店區民權路 108-1 號 6 樓			
Manufacturer: Intellect Pioneering Battery Technology Co.,Ltd. 制造商: 佛山市顺德区精锐电池科技有限公司	Manufacturer address:No.30 Xinghua Road East, Xinghua Industrial Park, Ronggui Street, Shunde District, Foshan, Guangdong, P.R.China 制造商地址: 中国广东省佛山市顺德区容桂街道兴华工业区兴华东路 30 号			
Factory: Same as manufacturer	Factory address: Same as manufacturer			
生产厂: 同制造商	生产厂地址: 同制造商			
Classification of test: Commission Test	Quantity of sample: 44 cells			
检测类别: 委托测试	样品数量: 44 个电芯			
Tested according to: 测试标准: ST/SG/AC.10/11/Rev.7/Amend.1/Section 38.3	Sample identification: 样品标识序号: c1#~c44#			
Receiving date: 接样日期: 2023-06-12	Means of receiving: Submitted by commissioner 接样方式: 委托单位送样			
Completing date:	Test item: 8 items			
完成日期: 2023-07-06	测试项目: 8 项			

Test conclusion:

检测结论:

The Lithium-ion Polymer Rechargeable Batteries submitted by Marson Technology Co.,Ltd. are tested according to Section 38.3 of the Seventh revised edition Amendment 1 of the Manual of Tests and Criteria (ST/SG/AC.10/11/Rev.7/Amend.1/Section 38.3). The test items are full items. The test results comply with the relevant requirements of the standard.

由茂森科技股份有限公司送检的聚合物锂离子电池,依据联合国《试验和标准手册》第七修订版修正 **1** 第 **38.3** 节进行检测,试验为全项目,试验结果符合标准相关要求。

Seal of CVC CVC 盖章 Date of issue:2023-07-25 签发日期:

Title:Manager批准人职务:经理

Approved by: Huang Kun Reviewed by: Zhang Siyao Tested by: Zheng Feida

批准: Hungton 审核: Zhang siyas 检测: Xhang Fesh

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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: 5,8mm*34mm*50mm

Watt-hour rating of each cell/ 单个电芯的瓦时率: 3,70Wh

Test item	Sample No.	State	Remark
试验项目	样品编号	状态	备注
	c1#~c5#	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	c6#~c10#	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	-
T.6	c11#~c15#	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%	
1.0	c16#~c20#	after 25 cycles ending at 50% of the design rated capacity 第 25 个交替充电放电周期充电到设计额 定容量的 50%	-
Т.7	c1#~c4#	at first cycle, in fully charged states 第一个交替充电放电周期完全充电状态	using undamaged samples previously used in tests T.1 to T.5 使用试验 T.1 至 T.5 未 损坏的样品
	c41#~c44#	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	-
	c21#~c30#	at first cycle, in fully discharged states 第一个交替充电放电周期完全放电状态	-
Т.8	c31#~c40#	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 deviation from the standard, if any:

试验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.

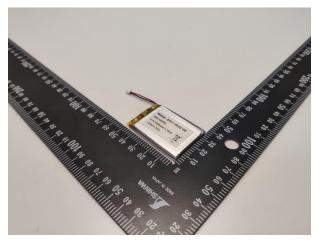
本报告中以逗号代替小数点。

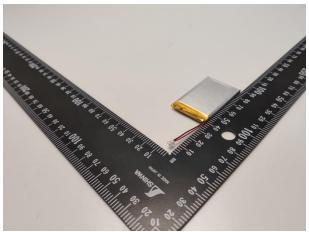
The Lithium-ion Polymer Rechargeable Batteries submitted by Marson Technology Co.,Ltd. are single cell batteries. According to the standard, a single cell battery is considered a "cell" and shall be tested according to the testing requirements for "cell".

茂森科技股份有限公司所送的聚合物锂离子电池是单电芯电池。根据标准要求,单电芯电池被视为"电芯",须根据"电芯"的实验要求进行试验。

Photos of Samples and Labels/样品照片及标识

Single Cell Battery /单电芯电池 (8001-0032*00 3,7V 1000mAh 3,70Wh)

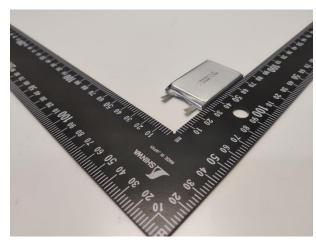


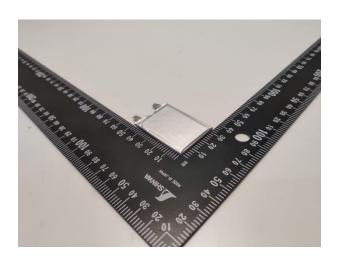




Photos of Samples and Labels/样品照片及标识

Component Cell/电芯(IP583450 3,7V 1000mAh)





- IP583450 3.7V + 1000mAh 3.70Wh Ref. No.: RZUN2023-2923 Page 6 of 14 Pages

ST/SG/AC.10/11/Rev.7/Amend.1/Section 38.3									
Clause 章节	Requirements 标准要求	Result 测试结果	Verdict 判定						
38.3.4	Procedure/试验步骤		_						
	Test T.1: Altitude simulation/试验 T.1: 高度模拟								
	Test cells and batteries shall be stored at a pressure six hours at ambient temperature (20±5℃)/ 将电芯利压力为不大于 11,6kpa 的环境中贮存不少于 6 个小时								
	Requirement/标准要求:								
38.3.4.1	1 Cells and batteries Mass loss limit: ≤0,2% /样品质量损失≤0,2%	The samples c1#~c10#: No leakage, no venting, no	P						
36.3.4.1	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。	disassembly, no rupture and no fire/编号为c1#~c10#的样品:无漏液、无排气、无解体、无破裂以及无着火现象	•						
	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 shown in Table 1./数据见表 1							
	Test T.2: Thermal test/试验 T.2: 温度试验								
	Test cells and batteries are to be stored for/电池存储条件如下:								
	1 For small cells and batteries: one temperature cycle: 72±2℃(6h) —-40±2℃(6h) /对于小电芯和电池: 一次温度循环为 72±2℃(6h) —-40±2℃(6h)								
	For large cells and batteries: one temperature cycle: 72±2℃(12h) —-40±2℃(12h) /对于大电芯和电池: 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 8	欠循环							
38.3.4.2	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								
	Requirements/标准要求								
	1 Cells and batteries Mass loss limit: ≤0,2% /样品质量损失≤0,2%	The samples c1#~c10#: No leakage, no venting, no							
	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。	disassembly, no rupture and no fire/编号为c1#~c10#的样品:无漏液、无排气、无解体、无破裂以							
	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	及无着火现象 The data is shown in Table 1./数据见表 1							

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ST/SG/AC.10/11/Rev.7/Amend.1/Section 38.3								
Clause 章节	Requirements Result 标准要求 测试结果							
章节 38.3.4.3	•	测试结果 n of the vibration machine /电 mic sweep between 7Hz and 动以正弦波形式,以 7Hz 增加 环持续 15 分钟的对数前移传 eleration of 1gn is maintained ained at 0,8mm (1,6mm total k acceleration of 8gn occurs is then maintained until the 池: 从 7Hz 开始,以 1gn 的峰在 0,8mm(总偏移 1,6mm))。然后保持 8gn 的峰值加速 gn is maintained until 18Hz is (1,6mm total excursion) and of 2gn occurs (approximately ained until the frequency is 以 1gn 的峰值加速度保持不偏移 1,6mm)并且频率增加直 gn 的峰值加速度,直到频率增加 is for each of three mutually e directions of vibration must 中一个方向必须是垂直样品极	Verdict 判定 P					

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ST/SG/AC.10/11/Rev.7/Amend.1/Section 38.3							
Clause 章节	Requirements 标准要求	Result 测试结果	Verdict 判定				
	标准要求 Test T.4: Shock/试验 T.4: 冲击 1 Test cells and batteries shall be secured to the tes 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 and pulse duration of 6 milliseconds. Large cells man shock of peak acceleration of 50 gn and pulse duration 电芯以峰值为 150gn 的半正弦的加速度撞击,脉冲持续大加速度 50gn 和脉冲持续时间 11 毫秒的半正弦波冲式 Small batteries shall be subjected to a half-sine shock of gn (or Acceleration(gn)= √(100850/mass), which is small milliseconds, large batteries shall be subjected to a hof 50 gn (or Acceleration(gn)= √(30000/mass), which is small milliseconds/对每个电池以峰值为 150gn (或与√(30000/mass)) 中的较小值)和脉冲持续时间 11 毫秒的半 3 Each cell or battery shall be subjected to three shollowed by three shocks in the negative direction of mounting positions of the cell or battery for a total of 须在三个互相垂直的电池安装方位的正方向经受三次流冲击,总共经受 18 次冲击。 Requirements/标准要求: 1 Cells and batteries Mass loss limit: ≤0,2% /样品质量损失≤0,2% 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	wids集 ting machine/以稳固的托架固 f peak acceleration of 150 gn y be subjected to a half-sine n of 11 milliseconds. / 对每个 读 6 毫秒,大型电芯须经受最 fn k of peak acceleration of 150 der) and pulse duration of 6 half-sine of peak acceleration maller) and pulse duration of 100850 中的较小值)的半正 经受最大加速度 50gn(或与 正弦波冲击。 ocks in the positive direction three mutually perpendicular 18 shocks/每个电池或电池组冲击,接着在反方向经受三次 The samples c1#~c10#: Acceleration=150gn No leakage, no venting, no disassembly, no rupture and no fire/编号为 c1#~c10#的样品: 峰值加速度=150gn 无调液、无排气、无解体、 无破裂以及无着火现象					
	%,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	无漏液、无排气、无解体、					

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ST/SG/AC.10/11/Rev.7/Amend.1/Section 38.3						
Clause 章节	Requirements 标准要求	Result 测试结果	Verdict 判定			
	Test T.5: External Short Circuit/试验 T.5 :外部短路					
	1The cell or battery to be tested shall be heated for a reach a homogeneous stabilized temperature 57±4℃ 度稳定在 57±4℃	•				
	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℃, This short circuit condition is continued for at least one hour after the cell or battery external case temperature has returned to 57±4℃/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℃之后保持短路状态 1 小时以上。					
38.3.4.5	3 The cell or battery must be observed for a further six hours 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。					
	Requirements/标准要求: During the test and within six hours after test ,the cells or batteries 在试验过程中以及之后 6 个小时内,电芯或电池样品 1. External temperature not exceed 170℃ 外表温度不超过 170℃ 2. No disassembly, no rupture and no fire. The samples c1#~c10#: no disassembly, no rupture and no fire/编号为c1#~c10#的样品: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					

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ST/SG/AC.10/11/Rev.7/Amend.1/Section 38.3								
Clause 章节	Requirements 标准要求	Result 测试结果	Verdict 判定					
	Test T.6: Impact / Crush / 试验 T.6: 撞击/挤压		Р					
	Impact (applicable to cylindrical cells not less than 18r 撞击(适用于直径不小于 18 毫米的圆柱形电池)	mm in diameter) /						
	1 This test sample cell or component cell is to be place 将试验样品用的电芯或聚合物电芯放在一个平坦光滑的							
	2 A 15,8 mm diameter bar is to be placed across the centre of the sample, A 9,1kg mass is to be dropped from a height of 61±2,5cm onto the sample./将一直径为 15,8mm 的不锈钢圆棒横过电池中部放置后,将一质量为 9,1kg 的物体从 61±2,5cm 的高度落向样品。							
	3 The test sample is to be impacted with its longitu surface and perpendicular to the longitudinal axis diameter curved surface lying across the centre of the is to be subjected to only a single impact./ 接受撞击平行并与横放在试样中心的直径 15,8±0,1 毫米弯曲表经受一次撞击。	of the 15,8 mm ± 0,1mm ne test sample. Each sample 的试样,纵轴应与平坦的表面	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, 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	-						
38.3.4.6	Crush (applicable to prismatic, pouch, coin/button cells and cylindrical cells less than 18mm in diameter) / 挤压(适用于核柱形、袋装、硬币/纽扣电池和直径小于 18 毫米的圆柱形电池) 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 13kN±0,78kN (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. /核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。 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℃ 1.电芯或电池的最高表面温度应不超过 170℃ 1.电芯或电池的最高表面温度应不超过 170℃ 1.电芯或电池的最高表面温度应不超过 170℃ 1.电芯或电池的显示 211#~c20#的样品:无解体、无着火现象 1.11#~c20#的样品:无解体、无着火现象 1.11#~c20#的样品:无解体、无着水现象 1.11#~c20#的样品:无解体、无着水现象 1.11#~c20#的样品:无解体、无着水现象 1.11#~c20#的样品:无解体、无着水现象 1.11#~c20#的样品:1.11# c1.11# c1.							

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	ST/SG/AC.10/11/Rev.7/Amend.1/Se	ection 38.3					
Clause 章节	Requirements 标准要求	Result 测试结果	Verdict 判定				
38.3.4.7	Test T.7: Overcharge/试验 T.7: 过度充电 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/本试验最小电压见下文						
	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,本试验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,本试验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。 Requirements/标准要求:	The voltage of the test is 8,5V, and the current is 2A 试验的电压为 8,5V,电流为 2A	P				
	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。	c1#~c4#,c41#~c44#: no disassembly and no fire/ 编号为 c1#~c4#,c41#~c44# 的样品: 无解体、无着火现象 For voltage data before test, see table 3. / 试验前电 压见表 3					
	Test T.8: Forced discharge/试验 T.8: 强制放电						
	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。						
38.3.4.8	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试验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)。						
	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。	The samples c21#~c40#: no disassembly and no fire/编号为 c21#~c40#的 样品: 无解体、无着火现 象 The data is shown in Table 4./数据见表 4					

	Table1: T1~T5 / 表 1. 试验 1~试验 5											
Mass prior to prior to test / 试验前质量(g) 压(V)	Sample No. prior to test / 试 验前质	prior to	simul	: Altitude ation/ 高度模拟	Test T.2: Th 试验 T.2:		Test T.3: V 试验 T.3		Test T.4: S 试验 T.4:		Test T.5: External Short Circuit/ 试验 T.5 外部 短路	
		验前电	Mass Loss(%) 质量损失(%)	OCV Retention Ratio(%) 电压保留比(%)	Mass Loss(%) 质量损失(%)	OCV Retention Ratio(%) 电压保留比 (%)	Mass Loss(%) 质量损失(%)	OCV Retention Ratio(%) 电压保留比 (%)	Mass Loss(%) 质量损失(%)	OCV Retention Ratio(%) 电压保留比 (%)	Temp. (℃) 温度 (℃)	
c1#	19,627	4,183	0,005	99,95	0,025	99,21	0,000	99,98	0,000	100,00	57,4	
c2#	19,704	4,184	0,005	99,98	0,030	99,09	0,000	100,00	0,000	100,00	57,2	
c3#	19,519	4,183	0,005	99,98	0,030	99,09	0,000	99,98	0,000	100,00	56,9	
c4#	19,613	4,183	0,000	99,98	0,030	99,09	0,000	99,98	0,000	100,00	57,5	
c5#	19,618	4,182	0,005	99,95	0,025	99,21	0,000	100,00	0,000	99,98	57,1	
c6#	19,635	4,183	0,005	99,98	0,030	99,09	0,000	99,98	0,000	100,00	57,0	
c7#	19,647	4,183	0,005	99,95	0,030	99,16	0,000	99,98	0,000	100,00	57,6	
c8#	19,629	4,184	0,005	99,98	0,025	99,09	0,000	100,00	0,000	100,00	57,4	
с9#	19,608	4,182	0,005	99,98	0,030	99,21	0,000	99,98	0,000	100,00	57,0	
c10#	19,549	4,182	0,010	99,98	0,025	99,12	0,000	99,98	0,000	100,00	57,2	

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	Table2: Crush /表 2:挤压										
Test T.6:	Sample No. 样品号	c11#	c12#	c13#	c14#	c15#	c16#	c17#	c18#	c19#	c20#
Crush/试验 T.6:挤压	OCV prior to test / 试验前电压(V)	3,847	3,848	3,846	3,846	3,847	3,846	3,846	3,845	3,847	3,847
11013/1/25	Temp. (℃) 温度 (℃)	26,2	25,9	26,1	25,6	26,5	25,7	26,3	26,6	25,4	25,8

Table3: Overcharge Test of batteries/ 表 3 过度充电										
Test T.7: Overcharge /	Sample No. 样品号	c1#	c2#	c3#	c4#	c41#	c42#	c43#	c44#	
试验 T.7: 过 度充电	OCV prior to test / 试验前电压(V)	4,147	4,145	4,143	4,143	4,175	4,177	4,177	4,176	

Table 4: Forced discharge / 表 4. 强制放电											
Test T.8: Forced discharge / 试验 T.8: 强制放电	Sample No. 样品号	c21#	c22#	c23#	c24#	c25#	c26#	c27#	c28#	c29#	c30#
	OCV prior to test / 试验前电压(V)	3,326	3,322	3,325	3,322	3,326	3,326	3,324	3,325	3,322	3,322
	Sample No. 样品号	c31#	c32#	c33#	c34#	c35#	c36#	c37#	c38#	c39#	c40#
	OCV prior to test / 试验前电压(V)	3,325	3,324	3,326	3,326	3,322	3,323	3,326	3,326	3,322	3,325

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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 seal 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".

报告中未加 CMA 标志时,检测数据和结果仅供科研、教学或内部质量控制之用。
The test data and test results given in this test report should only be used for purposes of scientific research, teaching and internal quality control when the CMA symbol is not presented.

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