



NO.1123090243

检 测 报 告

Test Report

样品名称： 锂聚合物电池 103535 3.7V 1200mAh 4.44Wh

Name of Sample: Lithium-ion Battery 103535 3.7V 1200mAh 4.44Wh

委托单位： 东莞冉旭电子有限公司

Consignor: Dongguan Ranxu Electronic Co., Ltd.



上海化工院检测有限公司

Shanghai Institute of Chemical Industry Testing Co., Ltd.

上海化工院检测有限公司
检测报告

Shanghai Institute of Chemical Industry
Testing Co., Ltd. Test Report

NO. 1123090243

1/11

样品名称 Name of Sample	中文 Chinese	锂聚合物电池 103535 3.7V 1200mAh 4.44Wh	
	英文 English	Lithium-ion Battery 103535 3.7V 1200mAh 4.44Wh	
样品编号 Sample No.	1123090243		
委托单位 Consignor	东莞冉旭电子有限公司 Dongguan Ranxu Electronic Co., Ltd.		
生产单位 Manufacturer	东莞冉旭电子有限公司 Dongguan Ranxu Electronic Co., Ltd.		
检测方法 Test method	联合国《试验和标准手册》 ST/SG/AC. 10/11/Rev. 7&Amend. 1 38.3 UN Manual of Tests and Criteria ST/SG/AC. 10/11/Rev. 7&Amend. 1 Section 38.3		
判定标准 Criterion	联合国《试验和标准手册》 ST/SG/AC. 10/11/Rev. 7&Amend. 1 38.3 UN Manual of Tests and Criteria ST/SG/AC. 10/11/Rev. 7&Amend. 1 Section 38.3		
样品外观 Appearance	银色, 黄色双色 铝塑外壳 Silvery and yellow Aluminum-plastics shell		
样品接受日期 Accepted Date	2023-09-11	检测起始日期 Test Date	2023-09-18 ~ 2023-10-16
检测项目 Test Items	高度模拟; 热测试; 振动; 冲击; 外短路; 挤压; 过充电; 强制放电 Altitude simulation, Thermal test, Vibration, Shock, External short circuit, Crush, Overcharge, Forced discharge		
检测结论 Conclusion	经检测, 该样品符合联合国《试验和标准手册》ST/SG/AC. 10/11/Rev. 7&Amend. 1 38.3标准要求。 The sample has passed the test items of UN Manual of Tests and Criteria ST/SG/AC. 10/11/Rev. 7&Amend. 1 Section 38.3 生效日期(Date): 2023-10-16		
备注 Comment	可充电单电芯电池Rechargeable Single Cell Battery. /		
委托单位地址 Consignor Address	/		邮政编码 Post Code /

批准
Approver:
职务
Title:

许尧

审核
Checker:

陈建峰

编制
Compiler:

傅佳

电化学测试部部长(Head of Electrochemical Testing Department)



上海化工院检测有限公司

检 测 报 告

Shanghai Institute of Chemical Industry
Testing Co., Ltd. Test Report

NO. 1123090243

2/11

序号 No.	检测项目名称 Name of Test Items	标准要求或标准条款号 Standard requirement or The Clause Number of Standard	检测结果 Test Result	本项结论 Conclusion	备注 Remark
1	高度模拟 Altitude simulation	联合国《试验和标准手册》ST/SG/AC. 10/11/Rev. 7&Amend. 1 38.3 试验T.1 UN Manual of Tests and Criteria ST/SG/AC. 10/11/Rev. 7&Amend. 1 Section 38.3 Test T.1	见附表 1 See Appendix 1	合格 Passed	/
2	热测试 Thermal test	联合国《试验和标准手册》ST/SG/AC. 10/11/Rev. 7&Amend. 1 38.3 试验T.2 UN Manual of Tests and Criteria ST/SG/AC. 10/11/Rev. 7&Amend. 1 Section 38.3 Test T.2	见附表 2 See Appendix 2	合格 Passed	/
3	振动 Vibration	联合国《试验和标准手册》ST/SG/AC. 10/11/Rev. 7&Amend. 1 38.3 试验T.3 UN Manual of Tests and Criteria ST/SG/AC. 10/11/Rev. 7&Amend. 1 Section 38.3 Test T.3	见附表 3 See Appendix 3	合格 Passed	/
4	冲击 Shock	联合国《试验和标准手册》ST/SG/AC. 10/11/Rev. 7&Amend. 1 38.3 试验T.4 UN Manual of Tests and Criteria ST/SG/AC. 10/11/Rev. 7&Amend. 1 Section 38.3 Test T.4	见附表 4 See Appendix 4	合格 Passed	/
5	外短路 External short circuit	联合国《试验和标准手册》ST/SG/AC. 10/11/Rev. 7&Amend. 1 38.3 试验T.5 UN Manual of Tests and Criteria ST/SG/AC. 10/11/Rev. 7&Amend. 1 Section 38.3 Test T.5	见附表 5 See Appendix 5	合格 Passed	/
6	挤压 Crush	联合国《试验和标准手册》ST/SG/AC. 10/11/Rev. 7&Amend. 1 38.3 试验T.6 UN Manual of Tests and Criteria ST/SG/AC. 10/11/Rev. 7&Amend. 1 Section 38.3 Test T.6	见附表 6 See Appendix 6	合格 Passed	/
7	过充电 Overcharge	联合国《试验和标准手册》ST/SG/AC. 10/11/Rev. 7&Amend. 1 38.3 试验T.7 UN Manual of Tests and Criteria ST/SG/AC. 10/11/Rev. 7&Amend. 1 Section 38.3 Test T.7	见附表 7 See Appendix 7	合格 Passed	/
8	强制放电 Forced discharge	联合国《试验和标准手册》ST/SG/AC. 10/11/Rev. 7&Amend. 1 38.3 试验T.8 UN Manual of Tests and Criteria ST/SG/AC. 10/11/Rev. 7&Amend. 1 Section 38.3 Test T.8	见附表 8 See Appendix 8	合格 Passed	/
检测环境条件 Test Environment Condition		环境温度:23℃-24℃;环境湿度:/% Ambient temperature:23℃-24℃;Ambient humidity:/%			
分包检验情况 Subcontracted Test Condition		检测项目 Test Item	/		
		分包实验室 Subcontracted Laboratory	名称 Name	/	邮编 Post Code
			地址 Address	/	电话 Tel

检测报告-附表1

Shanghai Institute of Chemical Industry

NO. 1123090243

3/11

序号 No.	1	检测项目名称 Name of Test Items		高度模拟 Altitude simulation				
样品 编号 Sample No.	样品状态 Sample Status	试验前 Before		试验后 After		质量损失 Mass Loss /%	剩余电压 Residual OCV /%	其他 现象 Other Event
		质量 Mass /g	开路电压 OCV /V	质量 Mass /g	开路电压 OCV /V			
001	1CYC完全充电 1CYC Fully charged	21.2101	4.16	21.2083	4.16	0.01	100.00	O
002	1CYC完全充电 1CYC Fully charged	21.1841	4.16	21.1821	4.16	0.01	100.00	O
003	1CYC完全充电 1CYC Fully charged	21.1589	4.16	21.1553	4.16	0.02	100.00	O
004	1CYC完全充电 1CYC Fully charged	21.5984	4.17	21.5950	4.17	0.02	100.00	O
005	1CYC完全充电 1CYC Fully charged	21.3433	4.15	21.3400	4.15	0.02	100.00	O
006	25CYC完全充电 25CYC Fully charged	21.3267	4.17	21.3208	4.17	0.03	100.00	O
007	25CYC完全充电 25CYC Fully charged	21.5703	4.17	21.5701	4.17	0.00	100.00	O
008	25CYC完全充电 25CYC Fully charged	20.9941	4.18	20.9921	4.18	0.01	100.00	O
009	25CYC完全充电 25CYC Fully charged	21.1822	4.16	21.1793	4.16	0.01	100.00	O
010	25CYC完全充电 25CYC Fully charged	21.2646	4.16	21.2593	4.16	0.02	100.00	O
以下空白	This space intentionally left blank							

备注：L-泄漏 V-漏气 D-解体 R-破裂 F-起火 O-无泄漏、无漏气、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.

Shanghai Institute of Chemical Industry
Testing Co., Ltd. Test Report—Appendix 2

4/11

序号 No.	2	检测项目名称 Name of Test Items	热测试 Thermal test					
样品 编号 Sample No.	样品状态 Sample Status	试验前 Before		试验后 After		质量损失 Mass Loss /%	剩余电压 Residual OCV /%	其他现象 Other Event
		质量 Mass /g	开路电压 OCV /V	质量 Mass /g	开路电压 OCV /V			
001	ICYC完全充电 ICYC Fully charged	21.2083	4.16	21.2048	4.10	0.02	98.56	O
002	ICYC完全充电 ICYC Fully charged	21.1821	4.16	21.1783	4.10	0.02	98.56	O
003	ICYC完全充电 ICYC Fully charged	21.1553	4.16	21.1516	4.09	0.02	98.32	O
004	ICYC完全充电 ICYC Fully charged	21.5950	4.17	21.5918	4.10	0.01	98.32	O
005	ICYC完全充电 ICYC Fully charged	21.3400	4.15	21.3369	4.09	0.01	98.55	O
006	25CYC完全充电 25CYC Fully charged	21.3208	4.17	21.3207	4.10	0.00	98.32	O
007	25CYC完全充电 25CYC Fully charged	21.5701	4.17	21.5641	4.09	0.03	98.08	O
008	25CYC完全充电 25CYC Fully charged	20.9921	4.18	20.9883	4.10	0.02	98.09	O
009	25CYC完全充电 25CYC Fully charged	21.1793	4.16	21.1760	4.10	0.02	98.56	O
010	25CYC完全充电 25CYC Fully charged	21.2593	4.16	21.2591	4.10	0.00	98.56	O
以下空白	This space intentionally left blank							

备注：L-泄漏 V-漏气 D-解体 R-破裂 F-起火 O-无泄漏、无漏气、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.

Shanghai Institute of Chemical Industry
Testing Co., Ltd. Test Report—Appendix 3

5/11

备注: L-泄漏 V-漏气 D-解体 R-破裂 F-起火 O-无泄漏、无漏气、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.

Shanghai Institute of Chemical Industry
Testing Co., Ltd. Test Report—Appendix 4

6/11

序号 No.	4	检测项目名称 Name of Test Items		冲击 Shock				
样品 编号 Sample No.	样品状态 Sample Status	试验前 Before		试验后 After		质量损失 Mass Loss /%	剩余电压 Residual OCV /%	其他 现象 Other Event
		质量 Mass /g	开路电压 OCV /V	质量 Mass /g	开路电压 OCV /V			
001	1CYC完全充电 1CYC Fully charged	21.2060	4.10	21.2039	4.09	0.01	99.76	O
002	1CYC完全充电 1CYC Fully charged	21.1788	4.09	21.1765	4.09	0.01	100.00	O
003	1CYC完全充电 1CYC Fully charged	21.1537	4.09	21.1501	4.09	0.02	100.00	O
004	1CYC完全充电 1CYC Fully charged	21.5938	4.09	21.5905	4.08	0.02	99.76	O
005	1CYC完全充电 1CYC Fully charged	21.3380	4.09	21.3351	4.09	0.01	100.00	O
006	25CYC完全充电 25CYC Fully charged	21.3222	4.09	21.3184	4.09	0.02	100.00	O
007	25CYC完全充电 25CYC Fully charged	21.5652	4.09	21.5639	4.09	0.01	100.00	O
008	25CYC完全充电 25CYC Fully charged	20.9896	4.09	20.9858	4.09	0.02	100.00	O
009	25CYC完全充电 25CYC Fully charged	21.1772	4.09	21.1748	4.09	0.01	100.00	O
010	25CYC完全充电 25CYC Fully charged	21.2602	4.09	21.2583	4.09	0.01	100.00	O
以下空白	This space intentionally left blank							

检测报告-附表5

NO. 1123090243

7/11

[illegible]

检测报告-附表7

Testing Co., Ltd. Test Report—Appendix 7

9/11

序号 No.	7	检测项目名称 Name of Test Items	过充电 Overcharge
样品编号 Sample No.	样品状态 Sample Status	其他现象 Other Event	
021	1CYC完全充电 1CYC Fully charged	O	
022	1CYC完全充电 1CYC Fully charged	O	
023	1CYC完全充电 1CYC Fully charged	O	
024	1CYC完全充电 1CYC Fully charged	O	
025	25CYC完全充电 25CYC Fully charged	O	
026	25CYC完全充电 25CYC Fully charged	O	
027	25CYC完全充电 25CYC Fully charged	O	
028	25CYC完全充电 25CYC Fully charged	O	
以下空白	This space intentionally left blank		

备注：D-解体 F-起火 O-无解体、无起火。
Note: D-Disassembly F-Fire O-No Disassembly & No Fire.

上海化工院检测有限公司

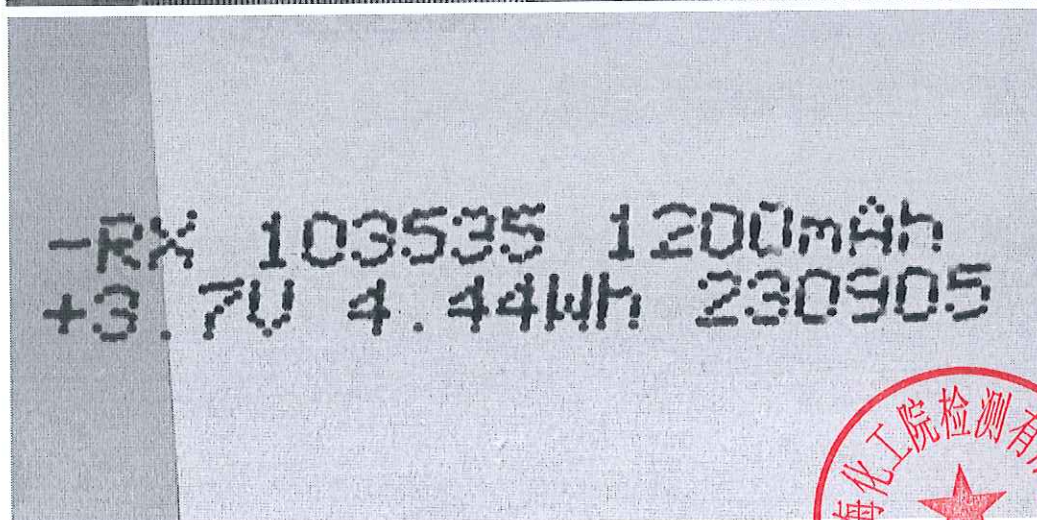
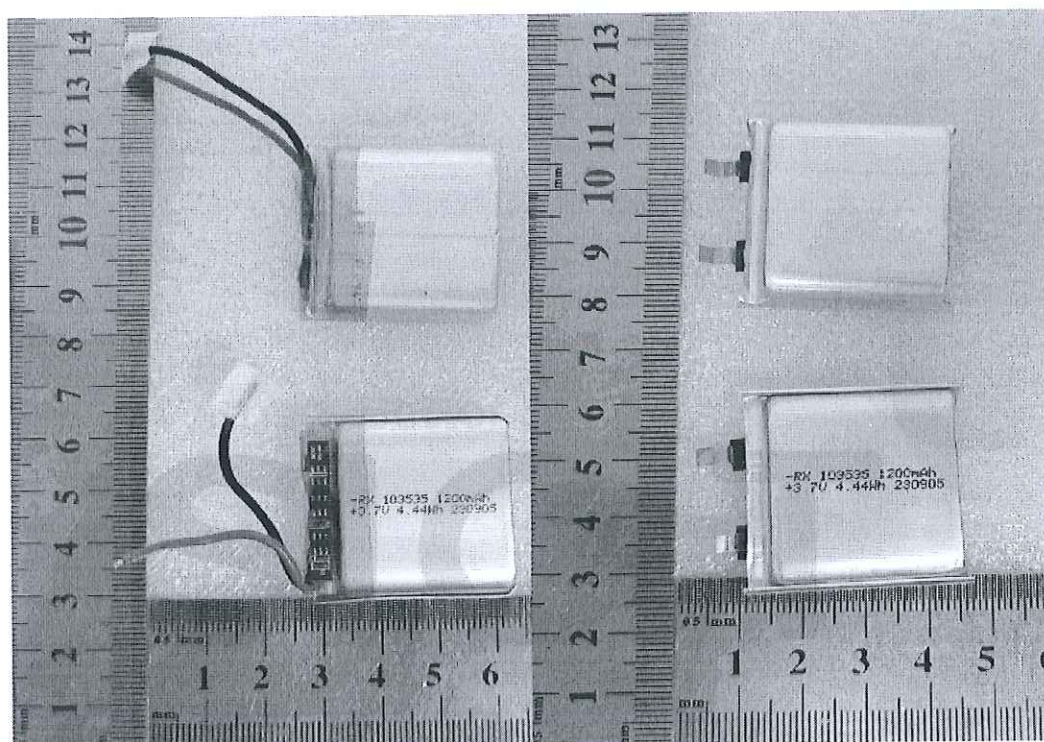
检测报告-附表8

Shanghai Institute of Chemical Industry
Testing Co., Ltd. Test Report—Appendix 8

NO. 1123090243

10/11

序号 No.	8	检测项目名称 Name of Test Items	强制放电 Forced discharge
样品编号 Sample No.	样品状态 Sample Status	其他现象 Other Event	
029	1CYC完全放电 1CYC Fully discharged	O	
030	1CYC完全放电 1CYC Fully discharged	O	
031	1CYC完全放电 1CYC Fully discharged	O	
032	1CYC完全放电 1CYC Fully discharged	O	
033	1CYC完全放电 1CYC Fully discharged	O	
034	1CYC完全放电 1CYC Fully discharged	O	
035	1CYC完全放电 1CYC Fully discharged	O	
036	1CYC完全放电 1CYC Fully discharged	O	
037	1CYC完全放电 1CYC Fully discharged	O	
038	1CYC完全放电 1CYC Fully discharged	O	
039	25CYC完全放电 25CYC Fully discharged	O	
040	25CYC完全放电 25CYC Fully discharged	O	
041	25CYC完全放电 25CYC Fully discharged	O	
042	25CYC完全放电 25CYC Fully discharged	O	
043	25CYC完全放电 25CYC Fully discharged	O	
044	25CYC完全放电 25CYC Fully discharged	O	
045	25CYC完全放电 25CYC Fully discharged	O	
046	25CYC完全放电 25CYC Fully discharged	O	
047	25CYC完全放电 25CYC Fully discharged	O	
048	25CYC完全放电 25CYC Fully discharged	O	
备注：D-解体 F-起火 O-无解体、无起火。 Note: D-Disassembly F-Fire O-No Disassembly & No Fire.			



报告结束