



中国认可
国际互认
检测
TESTING
CNAS L3095

NO. D240538

检 验 报 告

Test Report

样 品 名 称: 锂离子电池组 RW50 3.91V 4850mAh/18.97Wh (Rated)
5000mAh/19.55Wh (Typ)

Name of Sample: Rechargeable Lithium ion Battery RW50 3.91V
4850mAh/18.97Wh (Rated) 5000mAh/19.55Wh (Typ)

委 托 单 位: 飞毛腿 (福建) 电子有限公司

Consignor : Scud (Fujian) Electronics Co., Ltd



飞毛腿 (福建) 电子有限公司产品检测中心

Product testing center of Scud (Fujian) Electronics Co., Ltd

地址 (Add): 福州市马尾区江滨东大道98号 (No.98, Jiangbin East Avenue, Mawei District, Fuzhou)

网址 (Website): www.scudcn.com

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注 意 事 项

REMARKS

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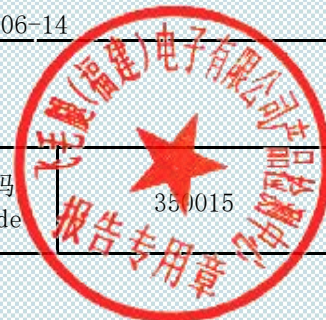
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样品名称 Name of Sample	中文 Chinese	锂离子电池组 RW50 3.91V 4850mAh/18.97Wh(Rated) 5000mAh/19.55Wh(Typ)	
	英文 English	Rechargeable Lithium ion Battery RW50 3.91V 4850mAh/18.97Wh(Rated) 5000mAh/19.55Wh(Typ)	
样品编号 Sample NO.	1#-48#		
委托单位 Consignor	飞毛腿(福建)电子有限公司 Scud (Fujian) Electronics Co., Ltd		
生产单位 Manufacturer	飞毛腿(福建)电子有限公司 Scud (Fujian) Electronics Co., Ltd		
检测方法 Test method	联合国《关于危险货物运输的建议书 试验和标准手册》ST/SG/AC.10/11/Rev.7 Amend.1 38.3 UNITED NATIONS "Recommendations on the TRANSPORT OF DANGEROUS GOODS " 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《关于危险货物运输的建议书 试验和标准手册》ST/SG/AC.10/11/Rev.7 Amend.1 38.3 UNITED NATIONS "Recommendations on the TRANSPORT OF DANGEROUS GOODS " Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7 Amend.1 Section 38.3		
样品外观 Appearance	银色塑料薄膜外壳 Silvery Plastic Film shell		
样品接受日期 Accepted Date	2024-05-15	检测起迄日期 Test Date	2024-05-15 ~ 2024-06-03
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《关于危险货物运输的建议书 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 UNITED NATIONS "Recommendations on the TRANSPORT OF DANGEROUS GOODS "Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7 Amend.1 Section 38.3 生效日期(Date): 2024-06-14		
备注 Comment	/		
委托单位地址 Consignor Address	/		邮政编码 Post Code 350015



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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《关于危险货物运输的建议书 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 pass	/	
2	热测试 Thermal test	联合国《关于危险货物运输的建议书 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.2	见附表1 see Appendix 1	合格 pass	/	
3	振动 Vibration	联合国《关于危险货物运输的建议书 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.3	见附表1 see Appendix 1	合格 pass	/	
4	冲击 Shock	联合国《关于危险货物运输的建议书 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.4	见附表1 see Appendix 1	合格 pass	/	
5	外短路 External short circuit	联合国《关于危险货物运输的建议书 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.5	见附表1 see Appendix 1	合格 pass	/	
6	挤压 Crush	联合国《关于危险货物运输的建议书 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.6	见附表1 see Appendix 1	合格 pass	/	
7	过充电 Overcharge	联合国《关于危险货物运输的建议书 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.7	见附表1 see Appendix 1	合格 pass	/	
8	强制放电 Forced discharge	联合国《关于危险货物运输的建议书 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.8	见附表1 see Appendix 1	合格 pass	/	
检测环境条件 Test Environment Condition		环境温度: 21℃-25℃; 环境湿度: /% Ambient temperature: 21℃-25℃; 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	/





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附表1: 检验结果(Appendix 1:Test Result)

序号 No.	1	检测项目名称 Name of Test Items		高度模拟 Altitude simulation				
		样品状态 Sample Status		试验前Before		试验后After		质量损失 Mass Loss
样品编号 Sample No.		质量 Mass/g	开路电压 OCV/V	质量 Mass/g	开路电压 OCV/V			
1	1CYC完全充电 1CYC Fully charged	61.8242	4.455	61.8184	4.453	0.01%	99.97%	O
2	1CYC完全充电 1CYC Fully charged	61.6725	4.456	61.6545	4.451	0.03%	99.89%	O
3	1CYC完全充电 1CYC Fully charged	61.7692	4.454	61.7555	4.453	0.02%	99.97%	O
4	1CYC完全充电 1CYC Fully charged	61.6275	4.454	61.6145	4.453	0.02%	99.97%	O
5	1CYC完全充电 1CYC Fully charged	61.6740	4.454	61.6579	4.453	0.03%	99.96%	O
6	25CYC完全充电 25CYC Fully charged	61.4856	4.454	61.4757	4.453	0.02%	99.97%	O
7	25CYC完全充电 25CYC Fully charged	61.0297	4.452	61.0148	4.451	0.02%	99.96%	O
8	25CYC完全充电 25CYC Fully charged	61.6846	4.454	61.6784	4.453	0.01%	99.97%	O
9	25CYC完全充电 25CYC Fully charged	61.6816	4.455	61.6741	4.453	0.01%	99.97%	O
10	25CYC完全充电 25CYC Fully charged	61.9523	4.452	61.9414	4.450	0.02%	99.96%	O
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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.



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附表1 (续) : 检验结果(Appendix 1(Continuation):Test Result)

序号 No.	2	检测项目名称 Name of Test Items		热测试 Thermal test						
				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			
1	1CYC完全充电 1CYC Fully charged	61.8184	4.453	61.8051	4.380	0.02%	98.35%	O		
2	1CYC完全充电 1CYC Fully charged	61.6545	4.451	61.6425	4.376	0.02%	98.32%	O		
3	1CYC完全充电 1CYC Fully charged	61.7555	4.453	61.7414	4.383	0.02%	98.42%	O		
4	1CYC完全充电 1CYC Fully charged	61.6145	4.453	61.6041	4.379	0.02%	98.35%	O		
5	1CYC完全充电 1CYC Fully charged	61.6579	4.453	61.6417	4.381	0.03%	98.39%	O		
6	25CYC完全充电 25CYC Fully charged	61.4757	4.453	61.4571	4.380	0.03%	98.37%	O		
7	25CYC完全充电 25CYC Fully charged	61.0148	4.451	61.0014	4.377	0.02%	98.34%	O		
8	25CYC完全充电 25CYC Fully charged	61.6784	4.453	61.6647	4.381	0.02%	98.38%	O		
9	25CYC完全充电 25CYC Fully charged	61.6741	4.453	61.6537	4.384	0.03%	98.44%	O		
10	25CYC完全充电 25CYC Fully charged	61.9414	4.450	61.9214	4.376	0.03%	98.34%	O		
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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.

附表1 (续) : 检验结果(Appendix 1(Continuation):Test Result)

序号 No.	3	检测项目名称 Name of Test Items		振动 Vibration					
		样品 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			
1	1CYC完全充电 1CYC Fully charged	61.8051	4.380	61.7924	4.376	0.02%	99.90%	O	
2	1CYC完全充电 1CYC Fully charged	61.6425	4.376	61.6335	4.369	0.01%	99.83%	O	
3	1CYC完全充电 1CYC Fully charged	61.7414	4.383	61.7318	4.374	0.02%	99.82%	O	
4	1CYC完全充电 1CYC Fully charged	61.6041	4.379	61.5978	4.370	0.01%	99.80%	O	
5	1CYC完全充电 1CYC Fully charged	61.6417	4.381	61.6317	4.375	0.02%	99.86%	O	
6	25CYC完全充电 25CYC Fully charged	61.4571	4.380	61.4454	4.375	0.02%	99.87%	O	
7	25CYC完全充电 25CYC Fully charged	61.0014	4.377	61.0001	4.369	0.00%	99.82%	O	
8	25CYC完全充电 25CYC Fully charged	61.6647	4.381	61.6517	4.376	0.02%	99.90%	O	
9	25CYC完全充电 25CYC Fully charged	61.6537	4.384	61.6447	4.375	0.01%	99.80%	O	
10	25CYC完全充电 25CYC Fully charged	61.9214	4.376	61.9115	4.368	0.02%	99.82%	O	
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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.



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附表1 (续) : 检验结果(Appendix 1(Continuation):Test Result)

序号 No.	4 样品 Sample Status	检测项目名称 Name of Test Items		冲击 Shock				
		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			
1	1CYC完全充电 1CYC Fully charged	61.7924	4.376	61.7918	4.372	0.00%	99.90%	O
2	1CYC完全充电 1CYC Fully charged	61.6335	4.369	61.6315	4.365	0.00%	99.91%	O
3	1CYC完全充电 1CYC Fully charged	61.7318	4.374	61.7305	4.370	0.00%	99.90%	O
4	1CYC完全充电 1CYC Fully charged	61.5978	4.370	61.5914	4.369	0.01%	99.96%	O
5	1CYC完全充电 1CYC Fully charged	61.6317	4.375	61.6315	4.367	0.00%	99.84%	O
6	25CYC完全充电 25CYC Fully charged	61.4454	4.375	61.4415	4.366	0.01%	99.80%	O
7	25CYC完全充电 25CYC Fully charged	61.0001	4.369	61.0000	4.362	0.00%	99.84%	O
8	25CYC完全充电 25CYC Fully charged	61.6517	4.376	61.6458	4.371	0.01%	99.89%	O
9	25CYC完全充电 25CYC Fully charged	61.6447	4.375	61.6425	4.368	0.00%	99.85%	O
10	25CYC完全充电 25CYC Fully charged	61.9115	4.368	61.9104	4.362	0.00%	99.85%	O
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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.



附表1 (续) : 检验结果(Appendix 1(Continuation):Test Result)

序号 No.	5	检测项目名称 Name of Test Items	外短路 External short circuit
样品编号 Sample No.	样品 Sample Status	样品表面最高温度 Max. External Temperature /° C	其他现象 Other Event
1	1CYC完全充电 1CYC Fully charged	57.1	O
2	1CYC完全充电 1CYC Fully charged	57.1	O
3	1CYC完全充电 1CYC Fully charged	56.9	O
4	1CYC完全充电 1CYC Fully charged	56.9	O
5	1CYC完全充电 1CYC Fully charged	56.4	O
6	25CYC完全充电 25CYC Fully charged	57.2	O
7	25CYC完全充电 25CYC Fully charged	57.0	O
8	25CYC完全充电 25CYC Fully charged	56.9	O
9	25CYC完全充电 25CYC Fully charged	56.9	O
10	25CYC完全充电 25CYC Fully charged	56.3	O
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备注: D-解体 R-破裂 F-起火 O-无解体、无起火、无破裂。

Note: D-Disassembly R-Ruptur F-Fire O-No Disassembly, No Fire & No Rupture.

附表1 (续) : 检验结果(Appendix 1(Continuation):Test Result)

序号 No.	6	检测项目名称 Name of Test Items	挤压 Crush
样品编号 Sample No.	样品 Sample Status	样品表面最高温度 Max. External Temperature /° C	其他现象 Other Event
11	1CYC 50%充电 1CYC 50% charged	24.7	O
12	1CYC 50%充电 1CYC 50% charged	25.7	O
13	1CYC 50%充电 1CYC 50% charged	25.7	O
14	1CYC 50%充电 1CYC 50% charged	25.6	O
15	1CYC 50%充电 1CYC 50% charged	25.4	O
16	25CYC 50%充电 25CYC 50% charged	24.8	O
17	25CYC 50%充电 25CYC 50% charged	25.4	O
18	25CYC 50%充电 25CYC 50% charged	25.7	O
19	25CYC 50%充电 25CYC 50% charged	24.8	O
20	25CYC 50%充电 25CYC 50% charged	25.2	O
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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.

附表1 (续) : 检验结果(Appendix 1(Continuation):Test Result)

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 Sample Status	其他现象 Other Event	
21	1CYC完全充电 1CYC Fully charged		0
22	1CYC完全充电 1CYC Fully charged		0
23	1CYC完全充电 1CYC Fully charged		0
24	1CYC完全充电 1CYC Fully charged		0
25	25CYC完全充电 25CYC Fully charged		0
26	25CYC完全充电 25CYC Fully charged		0
27	25CYC完全充电 25CYC Fully charged		0
28	25CYC完全充电 25CYC Fully charged		0
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备注: D-解体 F-起火 0-无解体、无起火。

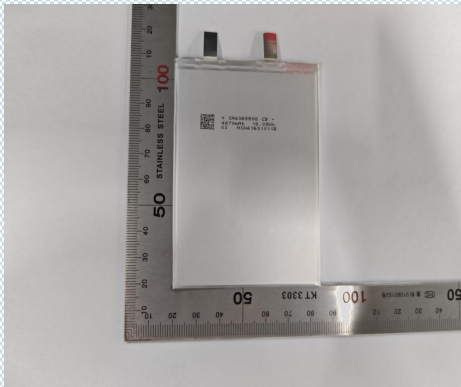
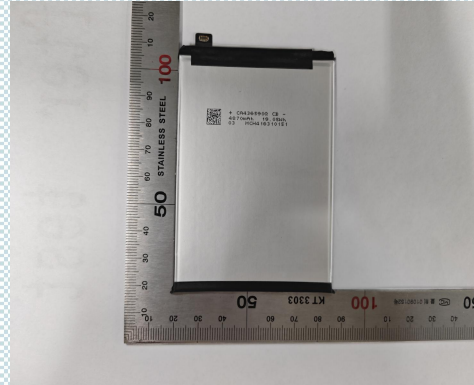
Note: D-Disassembly F-Fire 0-No Disassembly & No Fire.

附表1 (续) : 检验结果(Appendix 1(Continuation):Test Result)

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 Sample Status	其他现象 Other Event	
29	1CYC完全放电 1CYC Fully discharged		0
30	1CYC完全放电 1CYC Fully discharged		0
31	1CYC完全放电 1CYC Fully discharged		0
32	1CYC完全放电 1CYC Fully discharged		0
33	1CYC完全放电 1CYC Fully discharged		0
34	1CYC完全放电 1CYC Fully discharged		0
35	1CYC完全放电 1CYC Fully discharged		0
36	1CYC完全放电 1CYC Fully discharged		0
37	1CYC完全放电 1CYC Fully discharged		0
38	1CYC完全放电 1CYC Fully discharged		0
39	25CYC完全放电 25CYC Fully discharged		0
40	25CYC完全放电 25CYC Fully discharged		0
41	25CYC完全放电 25CYC Fully discharged		0
42	25CYC完全放电 25CYC Fully discharged		0
43	25CYC完全放电 25CYC Fully discharged		0
44	25CYC完全放电 25CYC Fully discharged		0
45	25CYC完全放电 25CYC Fully discharged		0
46	25CYC完全放电 25CYC Fully discharged		0
47	25CYC完全放电 25CYC Fully discharged		0
48	25CYC完全放电 25CYC Fully discharged		0

备注: D-解体 F-起火 0-无解体、无起火。
 Note: D-Disassembly F-Fire 0-No Disassembly & No Fire.

附表2: 样品照片 (Appendix 2: sample photo)



注: 本报告未经允许, 不得部分复制! (It is forbidden to copy the test report partially without the approval.)