



中国认可
国际互认
检测
TESTING
CNAS L3095

NO. D240491

检 验 报 告

Test Report

样 品 名 称: 锂离子电池组 C21P2401 7.8V 2790mAh/21.8Wh (Rated)
2900mAh/22.7Wh (Typ)

Name of Sample: Rechargeable Li-Polymer Battery Pack C21P2401 7.8V
2790mAh/21.8Wh (Rated) 2900mAh/22.7Wh (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

电话 (Tel): 0591-63158888、0591-63158886

注 意 事 项

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地址：福州市马尾区江滨东大道98号

邮政编号：350015

电话：0591-63158888 63158886

传真：0591-87037773

Http: www.scudcn.com



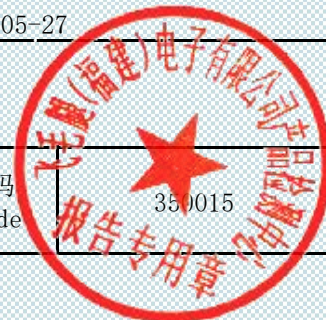
检验报告

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样品名称 Name of Sample	中文 Chinese	锂离子电池组 C21P2401 7.8V 2790mAh/21.8Wh(Rated) 2900mAh/22.7Wh(Typ)	
	英文 English	Rechargeable Li-Polymer Battery Pack C21P2401 7.8V 2790mAh/21.8Wh(Rated) 2900mAh/22.7Wh(Typ)	
样品编号 Sample NO.	1#-46#		
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	黑色塑料薄膜外壳 Black Plastic Film shell		
样品接受日期 Accepted Date	2024-05-07	检测起迄日期 Test Date	2024-05-07 ~ 2024-05-24
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): 2024-05-27		
备注 Comment	/		
委托单位地址 Consignor Address	/		邮政编码 Post Code 350015



批准: 黄金明
Approved:

审核: 张意
Checker:

编制: 邵玉莲
Compiler:



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: 福州市马尾区江滨东大道98号
电话: 0591-63158888 63158886
Http: www.scudcn.com

QA-265-C
邮政编码: 350015
传真: 0591-87037773



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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			
1	1CYC完全充电 1CYC Fully charged	72.4407	8.941	72.4386	8.890	0.00%	99.43%	O		
2	1CYC完全充电 1CYC Fully charged	72.6136	8.940	72.6114	8.897	0.00%	99.51%	O		
3	1CYC完全充电 1CYC Fully charged	72.8347	8.941	72.8351	8.896	0.00%	99.50%	O		
4	1CYC完全充电 1CYC Fully charged	72.7040	8.940	72.7030	8.896	0.00%	99.51%	O		
5	25CYC完全充电 25CYC Fully charged	72.7480	8.941	72.7440	8.898	0.01%	99.53%	O		
6	25CYC完全充电 25CYC Fully charged	72.9063	8.940	72.9010	8.898	0.01%	99.53%	O		
7	25CYC完全充电 25CYC Fully charged	72.7358	8.937	72.7340	8.896	0.00%	99.53%	O		
8	25CYC完全充电 25CYC Fully charged	72.7550	8.944	72.7545	8.903	0.00%	99.54%	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.	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
样品编号 Sample No.	样品 Sample Status	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	72.4386	8.890	72.3130	8.693	0.17%	97.78%	○
2	1CYC完全充电 1CYC Fully charged	72.6114	8.897	72.4995	8.693	0.15%	97.71%	○
3	1CYC完全充电 1CYC Fully charged	72.8351	8.896	72.7207	8.691	0.16%	97.70%	○
4	1CYC完全充电 1CYC Fully charged	72.7030	8.896	72.6015	8.696	0.14%	97.75%	○
5	25CYC完全充电 25CYC Fully charged	72.7440	8.898	72.6370	8.692	0.15%	97.68%	○
6	25CYC完全充电 25CYC Fully charged	72.9010	8.898	72.7924	8.690	0.15%	97.66%	○
7	25CYC完全充电 25CYC Fully charged	72.7340	8.896	72.6068	8.692	0.17%	97.71%	○
8	25CYC完全充电 25CYC Fully charged	72.7545	8.903	72.6293	8.694	0.17%	97.66%	○
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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				
		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
样品编号 Sample No.	样品 Sample Status	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	72.3130	8.693	72.3051	8.612	0.01%	99.07%	○
2	1CYC完全充电 1CYC Fully charged	72.4995	8.693	72.4851	8.613	0.02%	99.07%	○
3	1CYC完全充电 1CYC Fully charged	72.7207	8.691	72.7116	8.613	0.01%	99.10%	○
4	1CYC完全充电 1CYC Fully charged	72.6015	8.696	72.5987	8.611	0.00%	99.02%	○
5	25CYC完全充电 25CYC Fully charged	72.6370	8.692	72.6129	8.615	0.03%	99.11%	○
6	25CYC完全充电 25CYC Fully charged	72.7924	8.690	72.7791	8.615	0.02%	99.13%	○
7	25CYC完全充电 25CYC Fully charged	72.6068	8.692	72.5988	8.614	0.01%	99.11%	○
8	25CYC完全充电 25CYC Fully charged	72.6293	8.694	72.6128	8.614	0.02%	99.08%	○
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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.	4	检测项目名称 Name of Test Items		冲击 Shock				
		样品 Sample Status	试验前Before		试验后After		质量损失 Mass Loss	剩余电压 Residual OCV
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	72.3051	8.612	72.2818	8.597	0.03%	99.82%	O
2	1CYC完全充电 1CYC Fully charged	72.4851	8.613	72.4661	8.597	0.03%	99.82%	O
3	1CYC完全充电 1CYC Fully charged	72.7116	8.613	72.6981	8.587	0.02%	99.70%	O
4	1CYC完全充电 1CYC Fully charged	72.5987	8.611	72.5864	8.597	0.02%	99.83%	O
5	25CYC完全充电 25CYC Fully charged	72.6129	8.615	72.5961	8.589	0.02%	99.71%	O
6	25CYC完全充电 25CYC Fully charged	72.7791	8.615	72.7658	8.597	0.02%	99.79%	O
7	25CYC完全充电 25CYC Fully charged	72.5988	8.614	72.5746	8.599	0.03%	99.82%	O
8	25CYC完全充电 25CYC Fully charged	72.6128	8.614	72.5891	8.599	0.03%	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.

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	57.0	O
3	1CYC完全充电 1CYC Fully charged	57.1	O
4	1CYC完全充电 1CYC Fully charged	57.1	O
5	25CYC完全充电 25CYC Fully charged	57.1	O
6	25CYC完全充电 25CYC Fully charged	57.2	O
7	25CYC完全充电 25CYC Fully charged	57.4	O
8	25CYC完全充电 25CYC Fully charged	57.8	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
9	1CYC 50%充电 1CYC 50% charged	24.5	O
10	1CYC 50%充电 1CYC 50% charged	23.9	O
11	1CYC 50%充电 1CYC 50% charged	25.4	O
12	1CYC 50%充电 1CYC 50% charged	25.4	O
13	1CYC 50%充电 1CYC 50% charged	25.8	O
14	25CYC 50%充电 25CYC 50% charged	25.4	O
15	25CYC 50%充电 25CYC 50% charged	25.7	O
16	25CYC 50%充电 25CYC 50% charged	25.3	O
17	25CYC 50%充电 25CYC 50% charged	25.6	O
18	25CYC 50%充电 25CYC 50% charged	24.4	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	
19	1CYC完全充电 1CYC Fully charged		0
20	1CYC完全充电 1CYC Fully charged		0
21	1CYC完全充电 1CYC Fully charged		0
22	1CYC完全充电 1CYC Fully charged		0
23	25CYC完全充电 25CYC Fully charged		0
24	25CYC完全充电 25CYC Fully charged		0
25	25CYC完全充电 25CYC Fully charged		0
26	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。

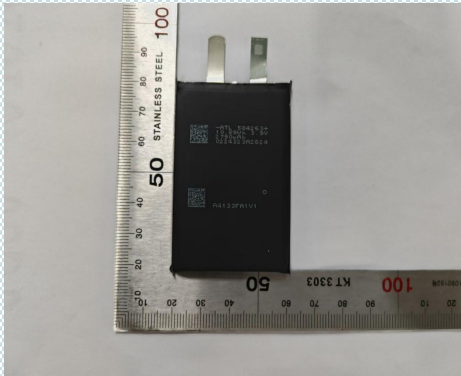
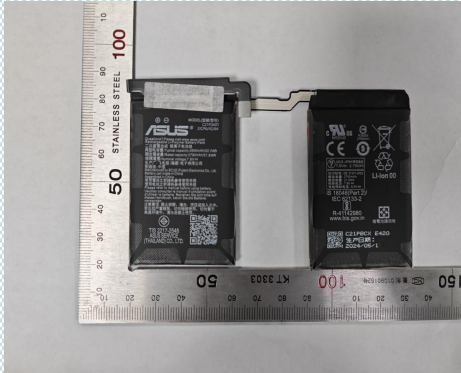
Note: D-Disassembly F-Fire 0-No Disassembly & No Fire.

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	
27	1CYC完全放电 1CYC Fully discharged		0
28	1CYC完全放电 1CYC Fully discharged		0
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	25CYC完全放电 25CYC Fully discharged		0
38	25CYC完全放电 25CYC 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

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)



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