中国认可
检测
TESTING
CNAS L0748

230014349552

NO.1123100529

检 测 报 告

Test Report

样品名称： 可充电锂离子电池组 F5AC1 3.87V 4200mAh 16.25Wh

Name of Sample: Rechargeable Li-ion Battery F5AC1 3.87V 4200mAh 16.25Wh

委托单位: 东莞市嘉洋电池有限公司

Consignor: DONGGUAN KAYO BATTERY 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. 1123100529

样品名称 Name of Sample	中文 Chinese	可充电锂离子电池组 F5AC1 3.87V 4200mAh 16.25Wh
	英文 English	Rechargeable Li-ion Battery F5AC1 3.87V 4200mAh 16.25Wh
样品编号 Sample No.	1123100529	
委托单位 Consignor	东莞市嘉洋电池有限公司 DONGGUAN KAYO BATTERY CO.,LTD.	
生产单位 Manufacturer	东莞市嘉洋电池有限公司 DONGGUAN KAYO BATTERY 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	黑色，蓝色双色 塑料薄膜外壳 Black and blue Plastic film shell	
样品接受日期 Accepted Date	2023-10-30	检测起迄日期 Test Date: 2023-10-31 ~ 2023-11-12
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)： 2023-11-13	
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: 许鑫　审核 Checker: 陈建峰　编制 Compiler: 傅俊

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

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:21℃-22℃;环境湿度:/% Ambient temperature:21℃-22℃;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	/

上海化工院检测有限公司
检 测 报 告－附表1

Shanghai Institute of Chemical Industry
Testing Co., Ltd. Test Report—Appendix 1

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	67.1898	4.42	67.1853	4.42	0.01	100.00	O
002	1CYC完全充电 1CYC Fully charged	67.6825	4.42	67.6708	4.42	0.02	100.00	O
003	1CYC完全充电 1CYC Fully charged	67.5478	4.42	67.5405	4.42	0.01	100.00	O
004	1CYC完全充电 1CYC Fully charged	67.8033	4.42	67.7939	4.42	0.01	100.00	O
005	1CYC完全充电 1CYC Fully charged	67.4698	4.42	67.4636	4.42	0.01	100.00	O
006	25CYC完全充电 25CYC Fully charged	67.1812	4.42	67.1692	4.42	0.02	100.00	O
007	25CYC完全充电 25CYC Fully charged	67.6111	4.41	67.6005	4.41	0.02	100.00	O
008	25CYC完全充电 25CYC Fully charged	67.6546	4.42	67.6518	4.42	0.00	100.00	O
009	25CYC完全充电 25CYC Fully charged	67.2777	4.42	67.2734	4.42	0.01	100.00	O
010	25CYC完全充电 25CYC Fully charged	68.2224	4.42	68.2181	4.42	0.01	100.00	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.

上海化工院检测有限公司
检 测 报 告－附表2

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

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	1CYC完全充电 1CYC Fully charged	67.1853	4.42	67.1701	4.35	0.02	98.42	O
002	1CYC完全充电 1CYC Fully charged	67.6708	4.42	67.6606	4.35	0.02	98.42	O
003	1CYC完全充电 1CYC Fully charged	67.5405	4.42	67.5273	4.35	0.02	98.42	O
004	1CYC完全充电 1CYC Fully charged	67.7939	4.42	67.7815	4.35	0.02	98.42	O
005	1CYC完全充电 1CYC Fully charged	67.4636	4.42	67.4471	4.34	0.02	98.19	O
006	25CYC完全充电 25CYC Fully charged	67.1692	4.42	67.1598	4.34	0.01	98.19	O
007	25CYC完全充电 25CYC Fully charged	67.6005	4.41	67.5901	4.34	0.02	98.41	O
008	25CYC完全充电 25CYC Fully charged	67.6518	4.42	67.6349	4.34	0.02	98.19	O
009	25CYC完全充电 25CYC Fully charged	67.2734	4.42	67.2568	4.35	0.02	98.42	O
010	25CYC完全充电 25CYC Fully charged	68.2181	4.42	68.2008	4.34	0.03	98.19	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.

上海化工院检测有限公司
检 测 报 告－附表3

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

序号 No.	3	检测项目名称 Name of Test Items		振动 Vibration				
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	67.1701	4.35	67.1643	4.34	0.01	99.77	O
002	1CYC完全充电 1CYC Fully charged	67.6606	4.35	67.6566	4.35	0.01	100.00	O
003	1CYC完全充电 1CYC Fully charged	67.5273	4.35	67.5223	4.35	0.01	100.00	O
004	1CYC完全充电 1CYC Fully charged	67.7815	4.35	67.7815	4.34	0.00	99.77	O
005	1CYC完全充电 1CYC Fully charged	67.4471	4.34	67.4426	4.34	0.01	100.00	O
006	25CYC完全充电 25CYC Fully charged	67.1598	4.34	67.1540	4.34	0.01	100.00	O
007	25CYC完全充电 25CYC Fully charged	67.5901	4.34	67.5853	4.34	0.01	100.00	O
008	25CYC完全充电 25CYC Fully charged	67.6349	4.34	67.6313	4.34	0.01	100.00	O
009	25CYC完全充电 25CYC Fully charged	67.2568	4.35	67.2546	4.34	0.00	99.77	O
010	25CYC完全充电 25CYC Fully charged	68.2008	4.34	68.1999	4.34	0.00	100.00	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.

上海化工院检测有限公司
检 测 报 告－附表4

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

NO. 1123100529

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	67.1643	4.34	67.1603	4.34	0.01	100.00	O
002	1CYC完全充电 1CYC Fully charged	67.6566	4.35	67.6561	4.35	0.00	100.00	O
003	1CYC完全充电 1CYC Fully charged	67.5223	4.35	67.5188	4.35	0.01	100.00	O
004	1CYC完全充电 1CYC Fully charged	67.7815	4.34	67.7804	4.34	0.00	100.00	O
005	1CYC完全充电 1CYC Fully charged	67.4426	4.34	67.4367	4.34	0.01	100.00	O
006	25CYC完全充电 25CYC Fully charged	67.1540	4.34	67.1480	4.34	0.01	100.00	O
007	25CYC完全充电 25CYC Fully charged	67.5853	4.34	67.5841	4.34	0.00	100.00	O
008	25CYC完全充电 25CYC Fully charged	67.6313	4.34	67.6308	4.34	0.00	100.00	O
009	25CYC完全充电 25CYC Fully charged	67.2546	4.34	67.2515	4.34	0.00	100.00	O
010	25CYC完全充电 25CYC Fully charged	68.1999	4.34	68.1938	4.34	0.01	100.00	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.

上海化工院检测有限公司
检 测 报 告 - 附表5

Shanghai Institute of Chemical Industry
Testing Co., Ltd. Test Report — Appendix 5

NO. 1123100529

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.	样品状态 Sample Status	样品表面最高温度 Max. External Temperature /℃	其他现象 Other Event
001	1CYC完全充电 1CYC Fully charged	57.4	O
002	1CYC完全充电 1CYC Fully charged	56.4	O
003	1CYC完全充电 1CYC Fully charged	56.7	O
004	1CYC完全充电 1CYC Fully charged	57.4	O
005	1CYC完全充电 1CYC Fully charged	57.1	O
006	25CYC完全充电 25CYC Fully charged	58.0	O
007	25CYC完全充电 25CYC Fully charged	57.1	O
008	25CYC完全充电 25CYC Fully charged	57.5	O
009	25CYC完全充电 25CYC Fully charged	56.9	O
010	25CYC完全充电 25CYC Fully charged	56.5	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.

上海化工院检测有限公司
检 测 报 告－附表6
Shanghai Institute of Chemical Industry
Testing Co., Ltd. Test Report — Appendix 6

序号 No.	6	检测项目名称 Name of Test Items	挤压 Crush
样品编号 Sample No.	样品状态 Sample Status	样品表面最高温度 Max. External Temperature /℃	其他现象 Other Event
011	1CYC 50%容量 1CYC 50% Capacity	22.9	O
012	1CYC 50%容量 1CYC 50% Capacity	22.4	O
013	1CYC 50%容量 1CYC 50% Capacity	22.8	O
014	1CYC 50%容量 1CYC 50% Capacity	22.2	O
015	1CYC 50%容量 1CYC 50% Capacity	22.8	O
016	25CYC 50%容量 25CYC 50% Capacity	23.0	O
017	25CYC 50%容量 25CYC 50% Capacity	22.8	O
018	25CYC 50%容量 25CYC 50% Capacity	22.2	O
019	25CYC 50%容量 25CYC 50% Capacity	22.8	O
020	25CYC 50%容量 25CYC 50% Capacity	22.7	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.

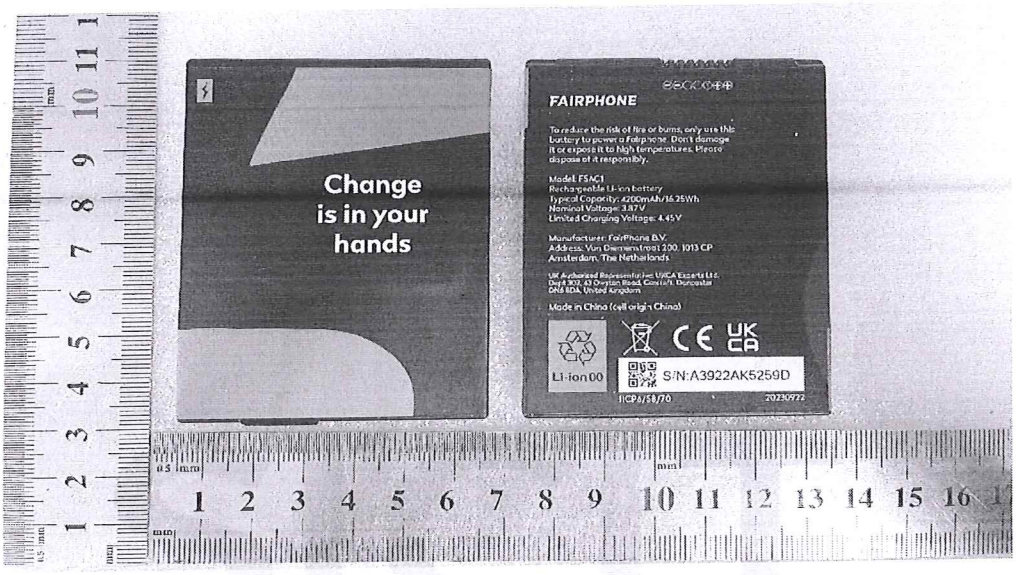
序号 No.	7	检测项目名称 Name of Test Items	过充电 Overcharge
样品编号 Sample No.	样品状态 Sample Status	其他现象 Other Event	
021	1CYC完全充电 1CYC Fully charged	O	
022	1CYC完全充电 1CYC Fully charged	O	
023	1CYC完全充电 1CYC Fully charged	O	
024	1CYC完全充电 1CYC Fully charged	O	
025	25CYC完全充电 25CYC Fully charged	O	
026	25CYC完全充电 25CYC Fully charged	O	
027	25CYC完全充电 25CYC Fully charged	O	
028	25CYC完全充电 25CYC Fully charged	O	
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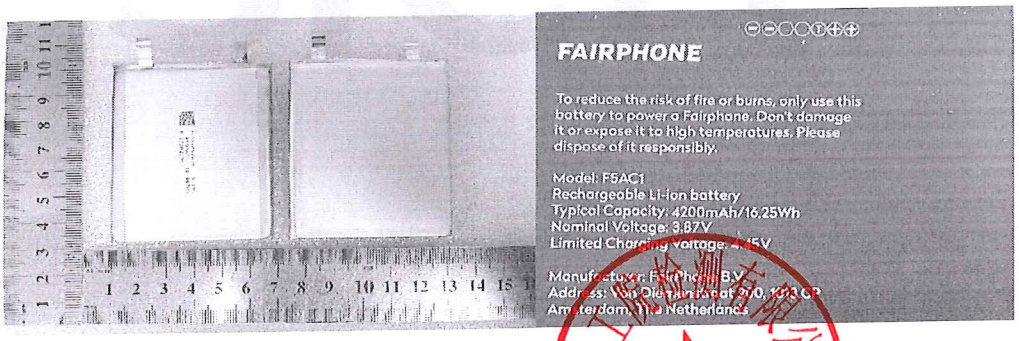
备注：D-解体 F-起火 O-无解体、无起火。
Note: D-Disassembly F-Fire O-No Disassembly & No Fire.

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

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.


Change
is in your
hands
FAIRPHONE
To reduce the risk of fire or burns, only use this battery to power a Fairphone. Don't damage it or expose it to high temperatures. Please dispose of it responsibly.
Model: F5AC1
Rechargeable Li-ion battery
Typical Capacity: 4200mAh/16.25Wh
Nominal Voltage: 3.87V
Limited Charging Voltage: 4.45V
Manufacturer: Fairphone B.V.
Address: Van Diemenstraat 200, 1013 CP
Amsterdam, The Netherlands
Made in China (cell origin: China)
Li-ion 00
S/N:A3922AK5259D
20230922


FAIRPHONE
To reduce the risk of fire or burns, only use this battery to power a Fairphone. Don't damage it or expose it to high temperatures. Please dispose of it responsibly.
Model: F5AC1
Rechargeable Li-ion battery
Typical Capacity: 4200mAh/16.25Wh
Nominal Voltage: 3.87V

报告结束