



NO.1123010429

# 检 测 报 告

## Test Report

样品名称： 可充电锂离子电池 HEAD-1ZW 3.8V 800mAh 3.04Wh

Name of Sample: Rechargeable Li-ion Battery HEAD-1ZW 3.8V 800mAh  
3.04Wh

委托单位： 东莞市晨新电子科技有限公司

Consignor: Honsenn Technology 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

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样品名称 Name of Sample	中文 Chinese	可充电锂离子电池 HEAD-1ZW 3.8V 800mAh 3.04Wh		
	英文 English	Rechargeable Li-ion Battery HEAD-1ZW 3.8V 800mAh 3.04Wh		
样品编号 Sample No.	1123010429			
委托单位 Consignor	东莞市晨新电子科技有限公司 Honsenn Technology Co., Ltd			
生产单位 Manufacturer	FairPhone B.V. /			
检测方法 Test method	联合国《试验和标准手册》 ST/SG/AC.10/11/Rev.7 38.3 UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7 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 38.3 UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7 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	2023-01-16	检测起迄日期 Test Date	2023-02-03 ~ 2023-03-02	
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 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 Section 38.3 生效日期(Date): 2023-03-03			
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	518103

批准  
Approver:  
职务  
Title:

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# 上海化工院检测有限公司 检测报告

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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《试验和标准手册》ST/SG/AC.10/11/Rev.7 38.3 试验T.1 UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7 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 38.3 试验T.2 UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7 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 38.3 试验T.3 UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7 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 38.3 试验T.4 UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7 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 38.3 试验T.5 UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7 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 38.3 试验T.6 UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7 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 38.3 试验T.7 UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7 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 38.3 试验T.8 UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7 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:20℃;环境湿度:/% Ambient temperature:20℃, 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

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序号 No.	I	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	18.6109	4.30	18.6110	4.30	0.00	100.00	O
002	1CYC完全充电 1CYC Fully charged	18.4816	4.31	18.4810	4.30	0.00	99.77	O
003	1CYC完全充电 1CYC Fully charged	18.6543	4.30	18.6547	4.29	0.00	99.77	O
004	1CYC完全充电 1CYC Fully charged	18.5817	4.23	18.5819	4.22	0.00	99.76	O
005	1CYC完全充电 1CYC Fully charged	18.5179	4.30	18.5174	4.30	0.00	100.00	O
006	25CYC完全充电 25CYC Fully charged	18.4581	4.30	18.4588	4.30	0.00	100.00	O
007	25CYC完全充电 25CYC Fully charged	18.5886	4.30	18.5884	4.29	0.00	99.77	O
008	25CYC完全充电 25CYC Fully charged	18.5903	4.24	18.5908	4.23	0.00	99.76	O
009	25CYC完全充电 25CYC Fully charged	18.5974	4.30	18.5982	4.29	0.00	99.77	O
010	25CYC完全充电 25CYC Fully charged	18.6448	4.29	18.6444	4.28	0.00	99.77	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

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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	18.6110	4.30	18.5860	4.19	0.13	97.44	O
002	1CYC完全充电 1CYC Fully charged	18.4810	4.30	18.4567	4.20	0.13	97.67	O
003	1CYC完全充电 1CYC Fully charged	18.6547	4.29	18.6306	4.19	0.13	97.67	O
004	1CYC完全充电 1CYC Fully charged	18.5819	4.22	18.5572	4.15	0.13	98.34	O
005	1CYC完全充电 1CYC Fully charged	18.5174	4.30	18.4938	4.20	0.13	97.67	O
006	25CYC完全充电 25CYC Fully charged	18.4588	4.30	18.4340	4.19	0.13	97.44	O
007	25CYC完全充电 25CYC Fully charged	18.5884	4.29	18.5628	4.19	0.14	97.67	O
008	25CYC完全充电 25CYC Fully charged	18.5908	4.23	18.5655	4.16	0.14	98.35	O
009	25CYC完全充电 25CYC Fully charged	18.5982	4.29	18.5753	4.20	0.12	97.90	O
010	25CYC完全充电 25CYC Fully charged	18.6444	4.28	18.6192	4.19	0.14	97.90	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3

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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	ICYC完全充电 ICYC Fully charged	18.5860	4.19	18.5905	4.19	0.00	100.00	O
002	ICYC完全充电 ICYC Fully charged	18.4567	4.20	18.4619	4.19	0.00	99.76	O
003	ICYC完全充电 ICYC Fully charged	18.6306	4.19	18.6352	4.19	0.00	100.00	O
004	ICYC完全充电 ICYC Fully charged	18.5572	4.15	18.5632	4.15	0.00	100.00	O
005	ICYC完全充电 ICYC Fully charged	18.4938	4.20	18.5005	4.19	0.00	99.76	O
006	25CVC完全充电 25CVC Fully charged	18.4340	4.19	18.4399	4.19	0.00	100.00	O
007	25CVC完全充电 25CVC Fully charged	18.5628	4.19	18.5686	4.19	0.00	100.00	O
008	25CVC完全充电 25CVC Fully charged	18.5655	4.16	18.5702	4.16	0.00	100.00	O
009	25CVC完全充电 25CVC Fully charged	18.5753	4.20	18.5801	4.19	0.00	99.76	O
010	25CVC完全充电 25CVC Fully charged	18.6192	4.19	18.6248	4.18	0.00	99.76	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

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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	ICYC完全充电 ICYC Fully charged	18.5905	4.19	18.5902	4.19	0.00	100.00	O
002	ICYC完全充电 ICYC Fully charged	18.4619	4.19	18.4613	4.18	0.00	99.76	O
003	ICYC完全充电 ICYC Fully charged	18.6352	4.19	18.6347	4.19	0.00	100.00	O
004	ICYC完全充电 ICYC Fully charged	18.5632	4.15	18.5629	4.15	0.00	100.00	O
005	ICYC完全充电 ICYC Fully charged	18.5005	4.19	18.5002	4.19	0.00	100.00	O
006	25CYC完全充电 25CYC Fully charged	18.4399	4.19	18.4395	4.18	0.00	99.76	O
007	25CYC完全充电 25CYC Fully charged	18.5686	4.19	18.5681	4.19	0.00	100.00	O
008	25CYC完全充电 25CYC Fully charged	18.5702	4.16	18.5697	4.16	0.00	100.00	O
009	25CYC完全充电 25CYC Fully charged	18.5801	4.19	18.5794	4.18	0.00	99.76	O
010	25CYC完全充电 25CYC Fully charged	18.6248	4.18	18.6244	4.18	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5

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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 /°C	其他现象 Other Event
001	1CYC完全充电 1CYC Fully charged	56.4	O
002	1CYC完全充电 1CYC Fully charged	57.1	O
003	1CYC完全充电 1CYC Fully charged	57.4	O
004	1CYC完全充电 1CYC Fully charged	57.3	O
005	1CYC完全充电 1CYC Fully charged	56.1	O
006	25CYC完全充电 25CYC Fully charged	56.8	O
007	25CYC完全充电 25CYC Fully charged	57.9	O
008	25CYC完全充电 25CYC Fully charged	57.6	O
009	25CYC完全充电 25CYC Fully charged	56.6	O
010	25CYC完全充电 25CYC Fully charged	57.4	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.



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 检测报告-附表6  
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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 /°C	其他现象 Other Event
011	1CYC 50%容量 1CYC 50% Capacity	19.9	O
012	1CYC 50%容量 1CYC 50% Capacity	20.4	O
013	1CYC 50%容量 1CYC 50% Capacity	20.7	O
014	1CYC 50%容量 1CYC 50% Capacity	21.2	O
015	1CYC 50%容量 1CYC 50% Capacity	20.5	O
016	25CYC 50%容量 25CYC 50% Capacity	21.1	O
017	25CYC 50%容量 25CYC 50% Capacity	20.4	O
018	25CYC 50%容量 25CYC 50% Capacity	20.7	O
019	25CYC 50%容量 25CYC 50% Capacity	21.1	O
020	25CYC 50%容量 25CYC 50% Capacity	20.3	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.

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检测报告-附表7

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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

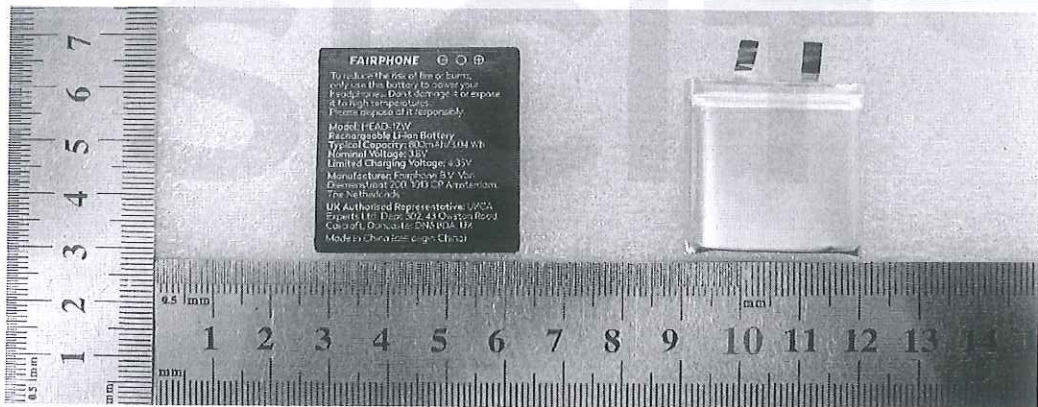
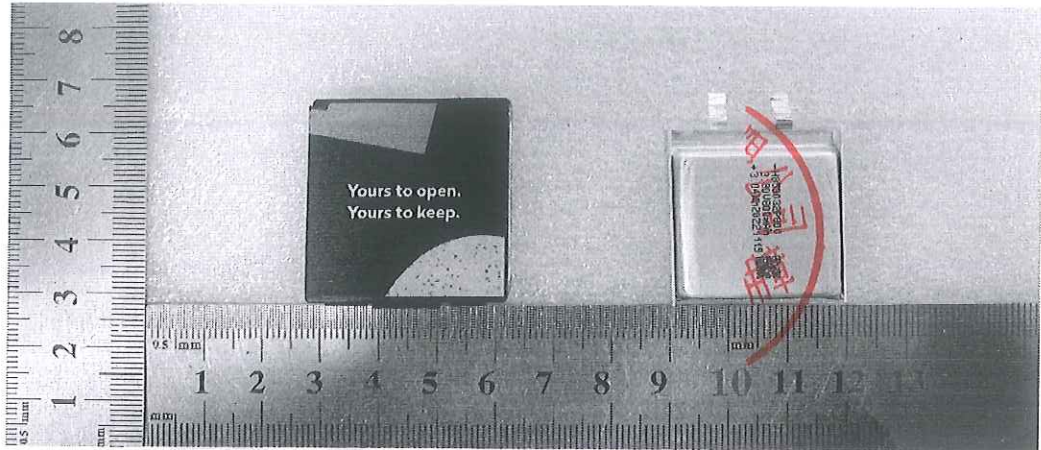
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序号 No.	8	检测项目名称 Name of Test Items	强制放电 Forced discharge
样品编号 Sample No.	样品状态 Sample Status	其他现象 Other Event	
029	1CYC完全放电 1CYC Fully discharged		O
030	1CYC完全放电 1CYC Fully discharged		O
031	1CYC完全放电 1CYC Fully discharged		O
032	1CYC完全放电 1CYC Fully 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\*\*\*

