中国认可
检测
TESTING
CNAS L0748

170014233963

NO.1121120384

检 测 报 告

Test Report

样品名称： 锂离子聚合物电池 Li3951T44P8h956656 3.87V 5060mAh/19.58Wh(Rated) 5130mAh/19.85Wh(Typical)

Name of Sample: RECHARGEABLE LI-ION POLYMER BATTERY Li3951T44P8h956656 3.87V 5060mAh/19.58Wh(Rated) 5130mAh/19.85Wh(Typical)

委托单位: 珠海冠宇电池股份有限公司

Consignor: Zhuhai CosMX 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. 1121120384

样品名称 Name of Sample	中文 Chinese	锂离子聚合物电池 Li3951T44P8h956656 3.87V 5060mAh/19.58Wh(Rated) 5130mAh/19.85Wh(Typical)		
	英文 English	RECHARGEABLE LI-ION POLYMER BATTERY Li3951T44P8h956656 3.87V 5060mAh/19.58Wh(Rated) 5130mAh/19.85Wh(Typical)		
样品编号 Sample No.	1121120384			
委托单位 Consignor	珠海冠宇电池股份有限公司 Zhuhai CosMX Battery Co.,Ltd.			
生产单位 Manufacturer	珠海冠宇电池股份有限公司 Zhuhai CosMX 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 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	银色，黄色双色 铝塑外壳 Silvery and yellow Aluminum-plastics shell			
样品接受日期 Accepted Date	2021-12-13	检测起迄日期 Test Date	2021-12-15 ～ 2022-01-01	
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)：2022-01-04			
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	519040	

批准 Approver: 王宏　　审核 Checker: 许勉　　编制 Compiler: 傅俊

职务 Title: 副总工程师(Vice chief engineer)

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T1 UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7 Section 38.3 Test T1	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T2 UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7 Section 38.3 Test T2	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T3 UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7 Section 38.3 Test T3	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T4 UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7 Section 38.3 Test T4	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T5 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T6 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T7 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T8 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:21℃-23℃;环境湿度:/% Ambient temperature:21℃-23℃;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

NO. 1121120384

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	72.5844	4.40	72.5870	4.40	0.00	100.00	O
002	1CYC完全充电 1CYC Fully charged	72.5019	4.40	72.5038	4.40	0.00	100.00	O
003	1CYC完全充电 1CYC Fully charged	72.6926	4.40	72.6936	4.40	0.00	100.00	O
004	1CYC完全充电 1CYC Fully charged	72.4826	4.40	72.4837	4.40	0.00	100.00	O
005	1CYC完全充电 1CYC Fully charged	72.5154	4.40	72.5162	4.40	0.00	100.00	O
006	25CYC完全充电 25CYC Fully charged	72.5183	4.40	72.5194	4.40	0.00	100.00	O
007	25CYC完全充电 25CYC Fully charged	72.5509	4.40	72.5531	4.40	0.00	100.00	O
008	25CYC完全充电 25CYC Fully charged	72.6838	4.40	72.6847	4.40	0.00	100.00	O
009	25CYC完全充电 25CYC Fully charged	72.4491	4.40	72.4510	4.40	0.00	100.00	O
010	25CYC完全充电 25CYC Fully charged	72.7097	4.40	72.7127	4.40	0.00	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.

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	72.5870	4.40	72.5736	4.34	0.02	98.64	O
002	1CYC完全充电 1CYC Fully charged	72.5038	4.40	72.4922	4.33	0.02	98.41	O
003	1CYC完全充电 1CYC Fully charged	72.6936	4.40	72.6831	4.34	0.01	98.64	O
004	1CYC完全充电 1CYC Fully charged	72.4837	4.40	72.4735	4.33	0.01	98.41	O
005	1CYC完全充电 1CYC Fully charged	72.5162	4.40	72.5057	4.34	0.01	98.64	O
006	25CYC完全充电 25CYC Fully charged	72.5194	4.40	72.5087	4.34	0.01	98.64	O
007	25CYC完全充电 25CYC Fully charged	72.5531	4.40	72.5411	4.33	0.02	98.41	O
008	25CYC完全充电 25CYC Fully charged	72.6847	4.40	72.6735	4.34	0.02	98.64	O
009	25CYC完全充电 25CYC Fully charged	72.4510	4.40	72.4388	4.34	0.02	98.64	O
010	25CYC完全充电 25CYC Fully charged	72.7127	4.40	72.7007	4.34	0.02	98.64	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

NO. 1121120384

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	72.5736	4.34	72.5682	4.33	0.01	99.77	O
002	1CYC完全充电 1CYC Fully charged	72.4922	4.33	72.4862	4.33	0.01	100.00	O
003	1CYC完全充电 1CYC Fully charged	72.6831	4.34	72.6765	4.33	0.01	99.77	O
004	1CYC完全充电 1CYC Fully charged	72.4735	4.33	72.4670	4.33	0.01	100.00	O
005	1CYC完全充电 1CYC Fully charged	72.5057	4.34	72.4996	4.34	0.01	100.00	O
006	25CYC完全充电 25CYC Fully charged	72.5087	4.34	72.5024	4.34	0.01	100.00	O
007	25CYC完全充电 25CYC Fully charged	72.5411	4.33	72.5356	4.33	0.01	100.00	O
008	25CYC完全充电 25CYC Fully charged	72.6735	4.34	72.6670	4.33	0.01	99.77	O
009	25CYC完全充电 25CYC Fully charged	72.4388	4.34	72.4334	4.34	0.01	100.00	O
010	25CYC完全充电 25CYC Fully charged	72.7007	4.34	72.6957	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4

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

NO. 1121120384

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	72.5682	4.33	72.5690	4.33	0.00	100.00	O
002	1CYC完全充电 1CYC Fully charged	72.4862	4.33	72.4870	4.33	0.00	100.00	O
003	1CYC完全充电 1CYC Fully charged	72.6765	4.33	72.6769	4.33	0.00	100.00	O
004	1CYC完全充电 1CYC Fully charged	72.4670	4.33	72.4680	4.33	0.00	100.00	O
005	1CYC完全充电 1CYC Fully charged	72.4996	4.34	72.5003	4.34	0.00	100.00	O
006	25CYC完全充电 25CYC Fully charged	72.5024	4.34	72.5034	4.34	0.00	100.00	O
007	25CYC完全充电 25CYC Fully charged	72.5356	4.33	72.5360	4.33	0.00	100.00	O
008	25CYC完全充电 25CYC Fully charged	72.6670	4.33	72.6689	4.33	0.00	100.00	O
009	25CYC完全充电 25CYC Fully charged	72.4334	4.34	72.4340	4.34	0.00	100.00	O
010	25CYC完全充电 25CYC Fully charged	72.6957	4.34	72.6966	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.

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	57.1	O
002	1CYC完全充电 1CYC Fully charged	56.7	O
003	1CYC完全充电 1CYC Fully charged	56.5	O
004	1CYC完全充电 1CYC Fully charged	56.0	O
005	1CYC完全充电 1CYC Fully charged	56.5	O
006	25CYC完全充电 25CYC Fully charged	55.7	O
007	25CYC完全充电 25CYC Fully charged	57.3	O
008	25CYC完全充电 25CYC Fully charged	55.5	O
009	25CYC完全充电 25CYC Fully charged	55.7	O
010	25CYC完全充电 25CYC Fully charged	56.2	O
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备注：D-解体 R-破裂 F-起火 0-无解体、无起火、无破裂。
Note: D-Disassembly R-Ruptur F-Fire O-No Disassembly,No Fire & No Rupture.

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	21.6	O
012	1CYC 50%容量 1CYC 50% Capacity	21.6	O
013	1CYC 50%容量 1CYC 50% Capacity	21.5	O
014	1CYC 50%容量 1CYC 50% Capacity	21.5	O
015	1CYC 50%容量 1CYC 50% Capacity	21.8	O
016	25CYC 50%容量 25CYC 50% Capacity	21.7	O
017	25CYC 50%容量 25CYC 50% Capacity	21.5	O
018	25CYC 50%容量 25CYC 50% Capacity	21.7	O
019	25CYC 50%容量 25CYC 50% Capacity	21.5	O
020	25CYC 50%容量 25CYC 50% Capacity	21.6	O
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备注：D-解体 F-起火 0-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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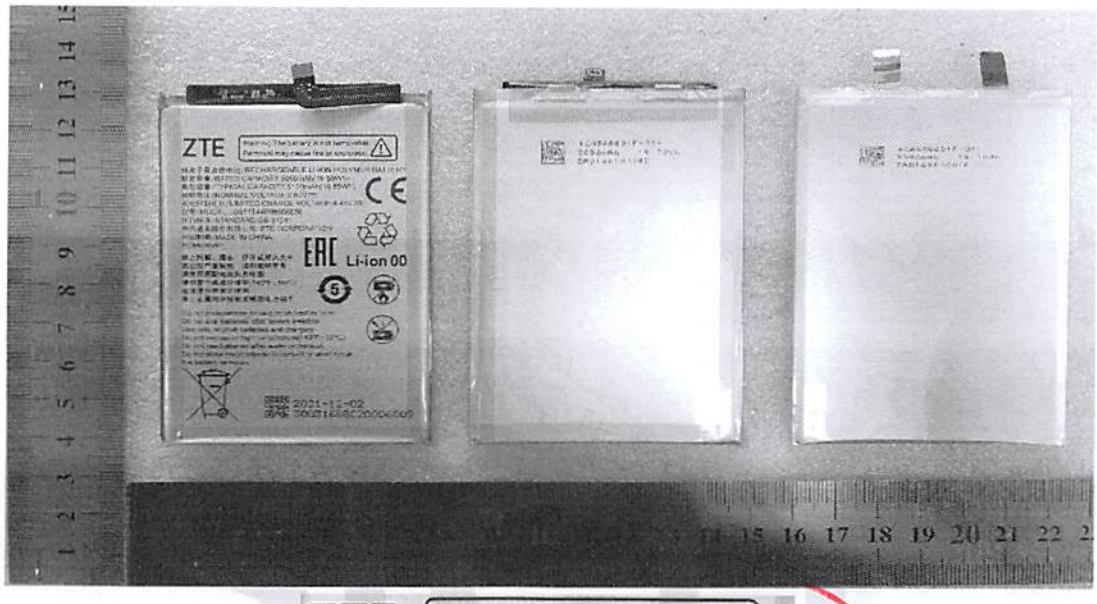
备注：D-解体 F-起火 O-无解体、无起火。
Note: D-Disassembly F-Fire O-No Disassembly & No Fire.

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


ZTE
Li-ion 00
2021-12-02

ZTE
Warning:The battery is not removable.
Removal may cause fire or explosion.
锂离子聚合物电池/RECHARGEABLE LI-ION POLYMER BATTERY
额定容量/RATED CAPACITY:5060mAh(19.58Wh)
典型容量/TYPICAL CAPACITY:5130mAh(19.85Wh)
标称电压/NOMINAL VOLTAGE:3.87V
充电限制电压/LIMITED CHARGE VOLTAGE:4.45V
型号/MODEL:Li3951T44P8h956656
执行标准/STANDARD:GB 31241
中兴通讯股份有限公司/ZTE CORPORATION
中国制造/MADE IN CHINA
1ICP6/66/92
禁止拆解、撞击、挤压或投入火中
若出现严重鼓胀，请勿继续使用
请使用原配电池和充电器
请勿置于高温环境中(140°F / 60°C)
电池浸水后禁止使用
禁止金属物体接触或短路电池端子
Li-ion 00
Do not disassemble,impact,crush,heat or burn
Do not use batteries after severe swelling
Use only original batteries and chargers
Do not expose to high temperature(140°F / 60°C)
Do not use batteries after water immersion
Do not allow metal objects to contact or short circuit
the battery terminals
2021-12-02
3003168BC20006009
+CA546691F-Q1-
5090mAh 19.70Wh
ZAD1481000CE

报告结束