中国认可
检测
TESTING
CNAS L0748

170014233963

NO.1121120968

检 测 报 告

Test Report

样品名称： 锂离子聚合物电池 Li3949T44P8h806459 3.89V 4900mAh/19.06Wh(RATED) 5000mAh/19.45Wh(TYPICAL)

Name of Sample: RECHARGEABLE LI-ION POLYMER BATTERY Li3949T44P8h806459 3.89V 4900mAh/19.06Wh(RATED) 5000mAh/19.45Wh(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. 1121120968

样品名称 Name of Sample	中文 Chinese	锂离子聚合物电池 Li3949T44P8h806459 3.89V 4900mAh/19.06Wh(RATED) 5000mAh/19.45Wh(TYPICAL)	
	英文 English	RECHARGEABLE LI-ION POLYMER BATTERY Li3949T44P8h806459 3.89V 4900mAh/19.06Wh(RATED) 5000mAh/19.45Wh(TYPICAL)	
样品编号 Sample No.	1121120968		
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	2021-12-29	检测起迄日期 Test Date	2022-01-14 ～ 2022-02-17
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)： 2022-02-17		
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: 王宗 审核 Checker: 陆建峰 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: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

NO. 1121120968

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	67.0686	4.44	67.0678	4.43	0.00	99.77	O
002	1CYC完全充电 1CYC Fully charged	67.0133	4.39	67.0131	4.39	0.00	100.00	O
003	1CYC完全充电 1CYC Fully charged	67.2045	4.38	67.2038	4.38	0.00	100.00	O
004	1CYC完全充电 1CYC Fully charged	67.1826	4.42	67.1825	4.41	0.00	99.77	O
005	1CYC完全充电 1CYC Fully charged	66.9074	4.41	66.9071	4.40	0.00	99.77	O
006	25CYC完全充电 25CYC Fully charged	67.2912	4.43	67.2909	4.43	0.00	100.00	O
007	25CYC完全充电 25CYC Fully charged	67.0194	4.34	67.0193	4.33	0.00	99.77	O
008	25CYC完全充电 25CYC Fully charged	67.4930	4.42	67.4932	4.42	0.00	100.00	O
009	25CYC完全充电 25CYC Fully charged	67.1354	4.41	67.1351	4.41	0.00	100.00	O
010	25CYC完全充电 25CYC Fully charged	66.9919	4.44	66.9922	4.43	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

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	67.0678	4.43	67.0622	4.36	0.01	98.42	O
002	1CYC完全充电 1CYC Fully charged	67.0131	4.39	67.0077	4.33	0.01	98.63	O
003	1CYC完全充电 1CYC Fully charged	67.2038	4.38	67.1992	4.32	0.01	98.63	O
004	1CYC完全充电 1CYC Fully charged	67.1825	4.41	67.1762	4.35	0.01	98.64	O
005	1CYC完全充电 1CYC Fully charged	66.9071	4.40	66.9011	4.34	0.01	98.64	O
006	25CYC完全充电 25CYC Fully charged	67.2909	4.43	67.2858	4.36	0.01	98.42	O
007	25CYC完全充电 25CYC Fully charged	67.0193	4.33	67.0146	4.27	0.01	98.61	O
008	25CYC完全充电 25CYC Fully charged	67.4932	4.42	67.4883	4.35	0.01	98.42	O
009	25CYC完全充电 25CYC Fully charged	67.1351	4.41	67.1298	4.34	0.01	98.41	O
010	25CYC完全充电 25CYC Fully charged	66.9922	4.43	66.9855	4.36	0.01	98.42	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

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

NO. 1121120968

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	67.0622	4.36	67.0609	4.36	0.00	100.00	O
002	1CYC完全充电 1CYC Fully charged	67.0077	4.33	67.0060	4.33	0.00	100.00	O
003	1CYC完全充电 1CYC Fully charged	67.1992	4.32	67.1973	4.32	0.00	100.00	O
004	1CYC完全充电 1CYC Fully charged	67.1762	4.35	67.1745	4.35	0.00	100.00	O
005	1CYC完全充电 1CYC Fully charged	66.9011	4.34	66.8995	4.34	0.00	100.00	O
006	25CYC完全充电 25CYC Fully charged	67.2858	4.36	67.2841	4.36	0.00	100.00	O
007	25CYC完全充电 25CYC Fully charged	67.0146	4.27	67.0131	4.27	0.00	100.00	O
008	25CYC完全充电 25CYC Fully charged	67.4883	4.35	67.4874	4.34	0.00	99.77	O
009	25CYC完全充电 25CYC Fully charged	67.1298	4.34	67.1280	4.34	0.00	100.00	O
010	25CYC完全充电 25CYC Fully charged	66.9855	4.36	66.9850	4.36	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

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	67.0609	4.36	67.0614	4.36	0.00	100.00	O
002	1CYC完全充电 1CYC Fully charged	67.0060	4.33	67.0070	4.33	0.00	100.00	O
003	1CYC完全充电 1CYC Fully charged	67.1973	4.32	67.1979	4.32	0.00	100.00	O
004	1CYC完全充电 1CYC Fully charged	67.1745	4.35	67.1745	4.35	0.00	100.00	O
005	1CYC完全充电 1CYC Fully charged	66.8995	4.34	66.9000	4.34	0.00	100.00	O
006	25CYC完全充电 25CYC Fully charged	67.2841	4.36	67.2845	4.35	0.00	99.77	O
007	25CYC完全充电 25CYC Fully charged	67.0131	4.27	67.0138	4.27	0.00	100.00	O
008	25CYC完全充电 25CYC Fully charged	67.4874	4.34	67.4875	4.34	0.00	100.00	O
009	25CYC完全充电 25CYC Fully charged	67.1280	4.34	67.1287	4.34	0.00	100.00	O
010	25CYC完全充电 25CYC Fully charged	66.9850	4.36	66.9856	4.36	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	55.2	O
002	1CYC完全充电 1CYC Fully charged	55.2	O
003	1CYC完全充电 1CYC Fully charged	55.2	O
004	1CYC完全充电 1CYC Fully charged	55.4	O
005	1CYC完全充电 1CYC Fully charged	55.3	O
006	25CYC完全充电 25CYC Fully charged	55.8	O
007	25CYC完全充电 25CYC Fully charged	55.0	O
008	25CYC完全充电 25CYC Fully charged	55.6	O
009	25CYC完全充电 25CYC Fully charged	55.7	O
010	25CYC完全充电 25CYC Fully charged	55.8	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.

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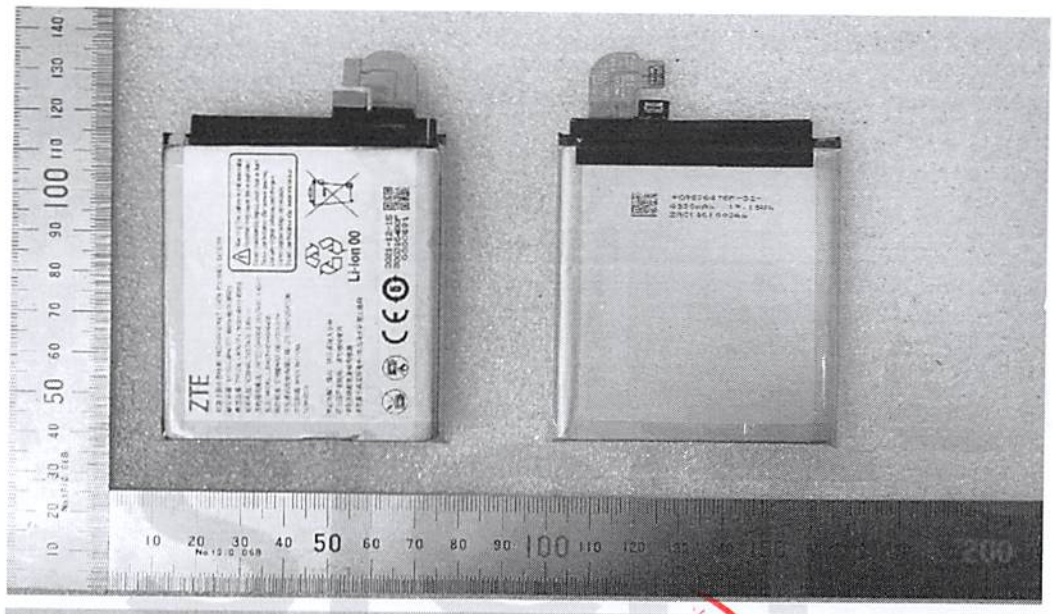
备注：D-解体 F-起火 O-无解体、无起火。
Note: D-Disassembly F-Fire O-No Disassembly & No Fire.

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.



锂离子聚合物电池/RECHARGEABLE LI-ION POLYMER BATTERY
额定容量/RATED CAPACITY: 4900mAh(19.06Wh)
典型容量/TYPICAL CAPACITY: 5000mAh(19.45Wh)
标称电压/NOMINAL VOLTAGE: 3.89V ⎓
充电限制电压/LIMITED CHARGE VOLTAGE: 4.48V ⎓
型号/MODEL: Li3949T44P8h806459
执行标准/STANDARD: GB 31241-2014
中兴通讯股份有限公司/ZTE CORPORATION
中国制造/MADE IN CHINA
1ICP6/65/76

Warning: The battery is not removable
Removal may cause fire or explosion
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
Do not use batteries after water immersion

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/电池浸水后禁止使用

Li-ion 00

2021-12-15
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报告结束