中国认可
检测
TESTING
CNAS L0748

230014349552

NO.1123060549

检 测 报 告

Test Report

样品名称： 锂离子电池 HYLN-IMR18650-1200mAh 3.7V 1200mAh 4.44Wh

Name of Sample: Lithium ion Battery HYLN-IMR18650-1200mAh 3.7V 1200mAh 4.44Wh

委托单位:

Consignor:

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. 1123060549

样品名称 Name of Sample	中文 Chinese	锂离子电池 HYLN-IMR18650-1200mAh 3.7V 1200mAh 4.44Wh		
	英文 English	Lithium ion Battery HYLN-IMR18650-1200mAh 3.7V 1200mAh 4.44Wh		
样品编号 Sample No.	1123060549			
委托单位 Consignor				
生产单位 Manufacturer				
检测方法 Test method				
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	紫色 圆柱型塑料薄膜外壳 Violet Cylinder plastics film shell			
样品接受日期 Accepted Date	2023-06-21	检测起迄日期 Test Date	2023-06-30 ～ 2023-08-04	
检测项目 Test Items	高度模拟;热测试;振动;冲击;外短路;撞击;强制放电 Altitude simulation, Thermal test, Vibration, Shock, External short circuit, Impact, 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): 2023-08-04			
备注 Comment	可充电锂电池芯Rechargeable Lithium Cell./			
委托单位地址 Consignor Address	/	邮政编码 Post Code	523000	

批准 Approver: 许鲍　　审核 Checker: 丁品龙　　编制 Compiler: 傅俊

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

上海化工院检测有限公司
检 测 报 告
Shanghai Institute of Chemical Industry
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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&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	撞击 Impact	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	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 7 See Appendix 7	合格 Passed	/
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检测环境条件 Test Environment Condition	环境温度:20℃-25℃;环境湿度:/% Ambient temperature:20℃-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	/

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. 1123060549

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	34.9675	4.14	34.9673	4.14	0.00	100.00	O
002	1CYC完全充电 1CYC Fully charged	34.9898	4.14	34.9895	4.13	0.00	99.76	O
003	1CYC完全充电 1CYC Fully charged	34.9825	4.15	34.9822	4.14	0.00	99.76	O
004	1CYC完全充电 1CYC Fully charged	34.7514	4.15	34.7511	4.15	0.00	100.00	O
005	1CYC完全充电 1CYC Fully charged	34.8887	4.14	34.8884	4.14	0.00	100.00	O
006	25CYC完全充电 25CYC Fully charged	35.1474	4.15	35.1472	4.15	0.00	100.00	O
007	25CYC完全充电 25CYC Fully charged	34.7866	4.15	34.7862	4.14	0.00	99.76	O
008	25CYC完全充电 25CYC Fully charged	35.5665	4.15	35.5661	4.15	0.00	100.00	O
009	25CYC完全充电 25CYC Fully charged	35.0715	4.15	35.0712	4.14	0.00	99.76	O
010	25CYC完全充电 25CYC Fully charged	35.0530	4.15	35.0527	4.15	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2

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

NO. 1123060549

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	34.9673	4.14	34.9601	4.04	0.02	97.58	O
002	1CYC完全充电 1CYC Fully charged	34.9895	4.13	34.9831	4.04	0.02	97.82	O
003	1CYC完全充电 1CYC Fully charged	34.9822	4.14	34.9758	4.04	0.02	97.58	O
004	1CYC完全充电 1CYC Fully charged	34.7511	4.15	34.7436	4.04	0.02	97.35	O
005	1CYC完全充电 1CYC Fully charged	34.8884	4.14	34.8809	4.04	0.02	97.58	O
006	25CYC完全充电 25CYC Fully charged	35.1472	4.15	35.1410	4.03	0.02	97.11	O
007	25CYC完全充电 25CYC Fully charged	34.7862	4.14	34.7806	4.02	0.02	97.10	O
008	25CYC完全充电 25CYC Fully charged	35.5661	4.15	35.5601	4.03	0.02	97.11	O
009	25CYC完全充电 25CYC Fully charged	35.0712	4.14	35.0644	4.02	0.02	97.10	O
010	25CYC完全充电 25CYC Fully charged	35.0527	4.15	35.0467	4.02	0.02	96.87	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. 1123060549

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	34.9601	4.04	34.9586	4.03	0.00	99.75	O
002	1CYC完全充电 1CYC Fully charged	34.9831	4.04	34.9809	4.03	0.01	99.75	O
003	1CYC完全充电 1CYC Fully charged	34.9758	4.04	34.9738	4.03	0.01	99.75	O
004	1CYC完全充电 1CYC Fully charged	34.7436	4.04	34.7396	4.03	0.01	99.75	O
005	1CYC完全充电 1CYC Fully charged	34.8809	4.04	34.8786	4.03	0.01	99.75	O
006	25CYC完全充电 25CYC Fully charged	35.1410	4.03	35.1402	4.01	0.00	99.50	O
007	25CYC完全充电 25CYC Fully charged	34.7806	4.02	34.7800	4.01	0.00	99.75	O
008	25CYC完全充电 25CYC Fully charged	35.5601	4.03	35.5593	4.01	0.00	99.50	O
009	25CYC完全充电 25CYC Fully charged	35.0644	4.02	35.0633	4.01	0.00	99.75	O
010	25CYC完全充电 25CYC Fully charged	35.0467	4.02	35.0465	4.01	0.00	99.75	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
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NO. 1123060549

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	34.9586	4.03	34.9570	4.03	0.00	100.00	O
002	1CYC完全充电 1CYC Fully charged	34.9809	4.03	34.9808	4.03	0.00	100.00	O
003	1CYC完全充电 1CYC Fully charged	34.9738	4.03	34.9724	4.03	0.00	100.00	O
004	1CYC完全充电 1CYC Fully charged	34.7396	4.03	34.7393	4.02	0.00	99.75	O
005	1CYC完全充电 1CYC Fully charged	34.8786	4.03	34.8778	4.03	0.00	100.00	O
006	25CYC完全充电 25CYC Fully charged	35.1402	4.01	35.1400	4.01	0.00	100.00	O
007	25CYC完全充电 25CYC Fully charged	34.7800	4.01	34.7796	4.01	0.00	100.00	O
008	25CYC完全充电 25CYC Fully charged	35.5593	4.01	35.5583	4.00	0.00	99.75	O
009	25CYC完全充电 25CYC Fully charged	35.0633	4.01	35.0626	4.01	0.00	100.00	O
010	25CYC完全充电 25CYC Fully charged	35.0465	4.01	35.0458	4.01	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
Shanghai Institute of Chemical Industry
Testing Co., Ltd. Test Report—Appendix 5

NO. 1123060549

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	125.9	O
002	1CYC完全充电 1CYC Fully charged	127.5	O
003	1CYC完全充电 1CYC Fully charged	125.9	O
004	1CYC完全充电 1CYC Fully charged	117.5	O
005	1CYC完全充电 1CYC Fully charged	125.1	O
006	25CYC完全充电 25CYC Fully charged	118.3	O
007	25CYC完全充电 25CYC Fully charged	123.9	O
008	25CYC完全充电 25CYC Fully charged	119.5	O
009	25CYC完全充电 25CYC Fully charged	118.9	O
010	25CYC完全充电 25CYC Fully charged	124.1	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
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序号 No.	6	检测项目名称 Name of Test Items	撞击 Impact
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	117.1	O
012	1CYC 50%容量 1CYC 50% Capacity	112.6	O
013	1CYC 50%容量 1CYC 50% Capacity	116.5	O
014	1CYC 50%容量 1CYC 50% Capacity	112.2	O
015	1CYC 50%容量 1CYC 50% Capacity	26.5	O
016	25CYC 50%容量 25CYC 50% Capacity	114.7	O
017	25CYC 50%容量 25CYC 50% Capacity	113.5	O
018	25CYC 50%容量 25CYC 50% Capacity	112.9	O
019	25CYC 50%容量 25CYC 50% Capacity	112.7	O
020	25CYC 50%容量 25CYC 50% Capacity	116.0	O
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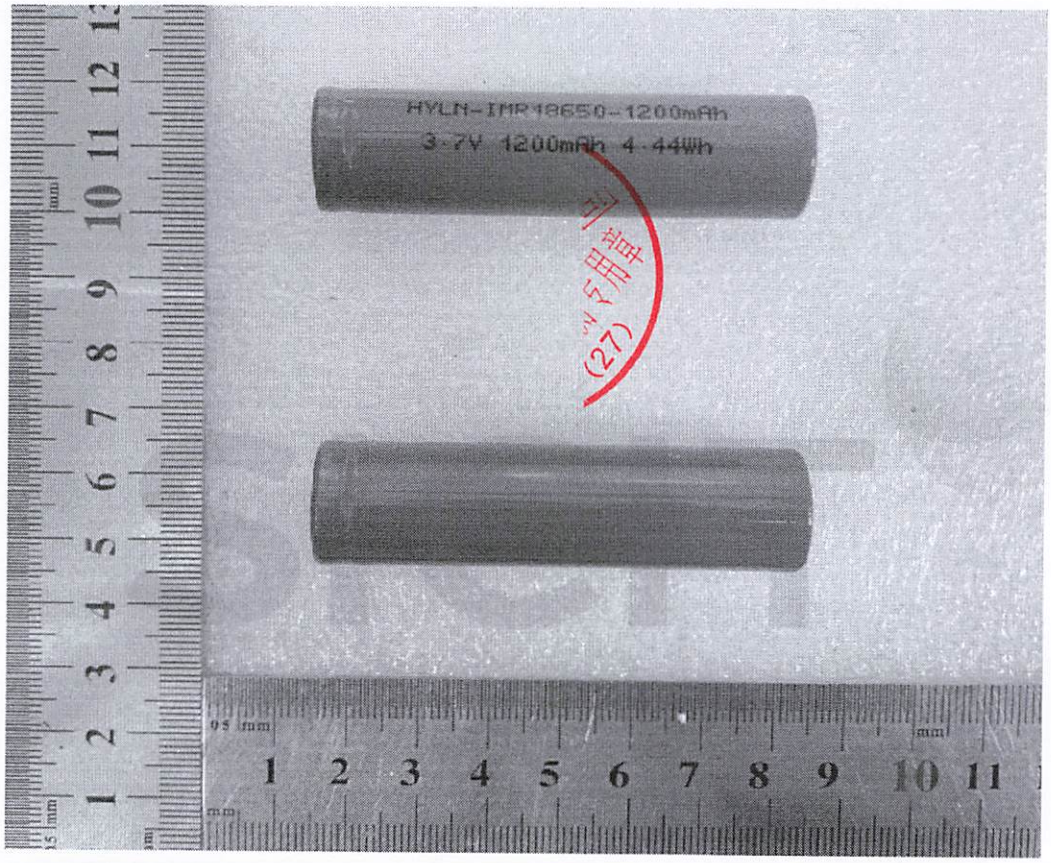
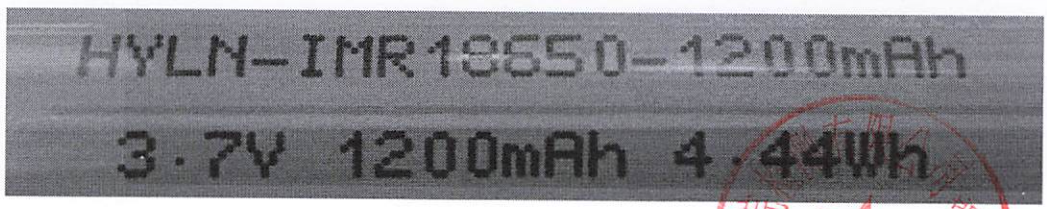
备注：D-解体 F-起火 O-无解体、无起火。
Note: D-Disassembly F-Fire O-No Disassembly & No Fire.

序号 No.	7	检测项目名称 Name of Test Items	强制放电 Forced discharge
样品编号 Sample No.	样品状态 Sample Status	其他现象 Other Event	
021	1CYC完全放电 1CYC Fully discharged	O	
022	1CYC完全放电 1CYC Fully discharged	O	
023	1CYC完全放电 1CYC Fully discharged	O	
024	1CYC完全放电 1CYC Fully discharged	O	
025	1CYC完全放电 1CYC Fully discharged	O	
026	1CYC完全放电 1CYC Fully discharged	O	
027	1CYC完全放电 1CYC Fully discharged	O	
028	1CYC完全放电 1CYC Fully discharged	O	
029	1CYC完全放电 1CYC Fully discharged	O	
030	1CYC完全放电 1CYC Fully discharged	O	
031	25CYC完全放电 25CYC Fully discharged	O	
032	25CYC完全放电 25CYC Fully discharged	O	
033	25CYC完全放电 25CYC Fully discharged	O	
034	25CYC完全放电 25CYC Fully discharged	O	
035	25CYC完全放电 25CYC Fully discharged	O	
036	25CYC完全放电 25CYC Fully discharged	O	
037	25CYC完全放电 25CYC Fully discharged	O	
038	25CYC完全放电 25CYC Fully discharged	O	
039	25CYC完全放电 25CYC Fully discharged	O	
040	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.


HYLN-IMR18650-1200mAh
3.7V 1200mAh 4.44Wh


HYLN-IMR18650-1200mAh
3.7V 1200mAh 4.44Wh

报告结束