中国认可
检测
TESTING
CNAS L0748

170014233963

NO.1121120973

检 测 报 告

Test Report

样品名称： 可充电锂离子电芯 INR18650 3.7V 2.2Ah 8.14Wh

Name of Sample: Rechargeable Li-ion Cell INR18650 3.7V 2.2Ah 8.14Wh

委托单位: 江西东腾锂业有限公司

Consignor: Jiangxi Dongteng Lithium Co.,Ltd.

上海化工院检测有限公司

Shanghai Institute of Chemical Industry Testing Co., Ltd.

声　明

Statement

1. 检测报告无本实验室公章（或检验检测专用章）无效。
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2. 复制检测报告未重新加盖本实验室公章（或检验检测专用章）无效。
   Copies of the test report without the official seal of the laboratory are invalid.
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   The test report is invalid without the signatures of compiler, checker and approver.
4. 检测报告涂改无效。
   The test report is invalid if it is blotted out.
5. 未经本实验室书面批准，不得部分复制检测报告。
   It is forbidden to copy the test report partially without the written approv al of the laboratory.
6. 送样委托检测结果，仅对所送样品有效。
   The conclusion of the consignation test is only valid for the provided sample.
7. 本检测报告以中文为准，英文文本（如有）仅为译文，两者发生冲突时，应以中文文本为准。
   The test report has been drafted in Chinese and translated into English (if exist) for convenience only. In the event of discrepancy, the Chinese version shall prevail.
8. 除另有说明，检测检验类别都是指委托分析。
   Unless noted otherwise, the test type is consignation test.

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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. 1121120973

样品名称 Name of Sample	中文 Chinese	可充电锂离子电芯 INR18650 3.7V 2.2Ah 8.14Wh	
	英文 English	Rechargeable Li-ion Cell INR18650 3.7V 2.2Ah 8.14Wh	
样品编号 Sample No.	1121120973		
委托单位 Consignor	江西东腾锂业有限公司 Jiangxi Dongteng Lithium Co.,Ltd.		
生产单位 Manufacturer	江西东腾锂业有限公司 Jiangxi Dongteng Lithium 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	粉色 圆柱型塑料薄膜外壳 Pink Cylinder plastics film shell		
样品接受日期 Accepted Date	2021-12-29	检测起迄日期 Test Date	2022-01-05 ~ 2022-02-11
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 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)： 2022-02-11		
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	/

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	撞击 Impact	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	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 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℃-23℃;环境湿度:/% Ambient temperature:20℃-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. 1121120973

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	44.5381	4.16	44.5381	4.16	0.00	100.00	O
002	1CYC完全充电 1CYC Fully charged	44.2120	4.15	44.2122	4.15	0.00	100.00	O
003	1CYC完全充电 1CYC Fully charged	44.3512	4.17	44.3507	4.16	0.00	99.76	O
004	1CYC完全充电 1CYC Fully charged	44.3016	4.15	44.3022	4.14	0.00	99.76	O
005	1CYC完全充电 1CYC Fully charged	44.5208	4.16	44.5206	4.16	0.00	100.00	O
006	25CYC完全充电 25CYC Fully charged	44.6307	4.15	44.6311	4.14	0.00	99.76	O
007	25CYC完全充电 25CYC Fully charged	44.1786	4.17	44.1788	4.17	0.00	100.00	O
008	25CYC完全充电 25CYC Fully charged	44.3608	4.17	44.3604	4.17	0.00	100.00	O
009	25CYC完全充电 25CYC Fully charged	44.1865	4.15	44.1865	4.15	0.00	100.00	O
010	25CYC完全充电 25CYC Fully charged	44.3661	4.15	44.3649	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

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	44.5381	4.16	44.5357	4.11	0.01	98.80	O
002	1CYC完全充电 1CYC Fully charged	44.2122	4.15	44.2091	4.07	0.01	98.07	O
003	1CYC完全充电 1CYC Fully charged	44.3507	4.16	44.3487	4.09	0.00	98.32	O
004	1CYC完全充电 1CYC Fully charged	44.3022	4.14	44.2993	4.07	0.01	98.31	O
005	1CYC完全充电 1CYC Fully charged	44.5206	4.16	44.5177	4.09	0.01	98.32	O
006	25CYC完全充电 25CYC Fully charged	44.6311	4.14	44.6279	4.08	0.01	98.55	O
007	25CYC完全充电 25CYC Fully charged	44.1788	4.17	44.1753	4.09	0.01	98.08	O
008	25CYC完全充电 25CYC Fully charged	44.3604	4.17	44.3590	4.10	0.00	98.32	O
009	25CYC完全充电 25CYC Fully charged	44.1865	4.15	44.1840	4.08	0.01	98.31	O
010	25CYC完全充电 25CYC Fully charged	44.3649	4.15	44.3631	4.07	0.00	98.07	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. 1121120973

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	44.5357	4.11	44.5363	4.10	0.00	99.76	O
002	1CYC完全充电 1CYC Fully charged	44.2091	4.07	44.2097	4.07	0.00	100.00	O
003	1CYC完全充电 1CYC Fully charged	44.3487	4.09	44.3492	4.09	0.00	100.00	O
004	1CYC完全充电 1CYC Fully charged	44.2993	4.07	44.3002	4.07	0.00	100.00	O
005	1CYC完全充电 1CYC Fully charged	44.5177	4.09	44.5185	4.08	0.00	99.76	O
006	25CYC完全充电 25CYC Fully charged	44.6279	4.08	44.6282	4.08	0.00	100.00	O
007	25CYC完全充电 25CYC Fully charged	44.1753	4.09	44.1761	4.09	0.00	100.00	O
008	25CYC完全充电 25CYC Fully charged	44.3590	4.10	44.3590	4.10	0.00	100.00	O
009	25CYC完全充电 25CYC Fully charged	44.1840	4.08	44.1844	4.08	0.00	100.00	O
010	25CYC完全充电 25CYC Fully charged	44.3631	4.07	44.3629	4.07	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. 1121120973

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	44.5363	4.10	44.5353	4.10	0.00	100.00	O
002	1CYC完全充电 1CYC Fully charged	44.2097	4.07	44.2091	4.07	0.00	100.00	O
003	1CYC完全充电 1CYC Fully charged	44.3492	4.09	44.3483	4.09	0.00	100.00	O
004	1CYC完全充电 1CYC Fully charged	44.3002	4.07	44.2994	4.07	0.00	100.00	O
005	1CYC完全充电 1CYC Fully charged	44.5185	4.08	44.5176	4.07	0.00	99.75	O
006	25CYC完全充电 25CYC Fully charged	44.6282	4.08	44.6273	4.08	0.00	100.00	O
007	25CYC完全充电 25CYC Fully charged	44.1761	4.09	44.1751	4.09	0.00	100.00	O
008	25CYC完全充电 25CYC Fully charged	44.3590	4.10	44.3582	4.09	0.00	99.76	O
009	25CYC完全充电 25CYC Fully charged	44.1844	4.08	44.1833	4.07	0.00	99.75	O
010	25CYC完全充电 25CYC Fully charged	44.3629	4.07	44.3616	4.07	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	131.6	O
002	1CYC完全充电 1CYC Fully charged	126.5	O
003	1CYC完全充电 1CYC Fully charged	126.2	O
004	1CYC完全充电 1CYC Fully charged	122.7	O
005	1CYC完全充电 1CYC Fully charged	123.5	O
006	25CYC完全充电 25CYC Fully charged	125.6	O
007	25CYC完全充电 25CYC Fully charged	125.8	O
008	25CYC完全充电 25CYC Fully charged	127.3	O
009	25CYC完全充电 25CYC Fully charged	129.1	O
010	25CYC完全充电 25CYC Fully charged	128.8	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	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	20.8	O
012	1CYC 50%容量 1CYC 50% Capacity	20.2	O
013	1CYC 50%容量 1CYC 50% Capacity	20.5	O
014	1CYC 50%容量 1CYC 50% Capacity	22.3	O
015	1CYC 50%容量 1CYC 50% Capacity	20.5	O
016	25CYC 50%容量 25CYC 50% Capacity	91.2	O
017	25CYC 50%容量 25CYC 50% Capacity	22.0	O
018	25CYC 50%容量 25CYC 50% Capacity	21.1	O
019	25CYC 50%容量 25CYC 50% Capacity	20.9	O
020	25CYC 50%容量 25CYC 50% Capacity	21.1	O
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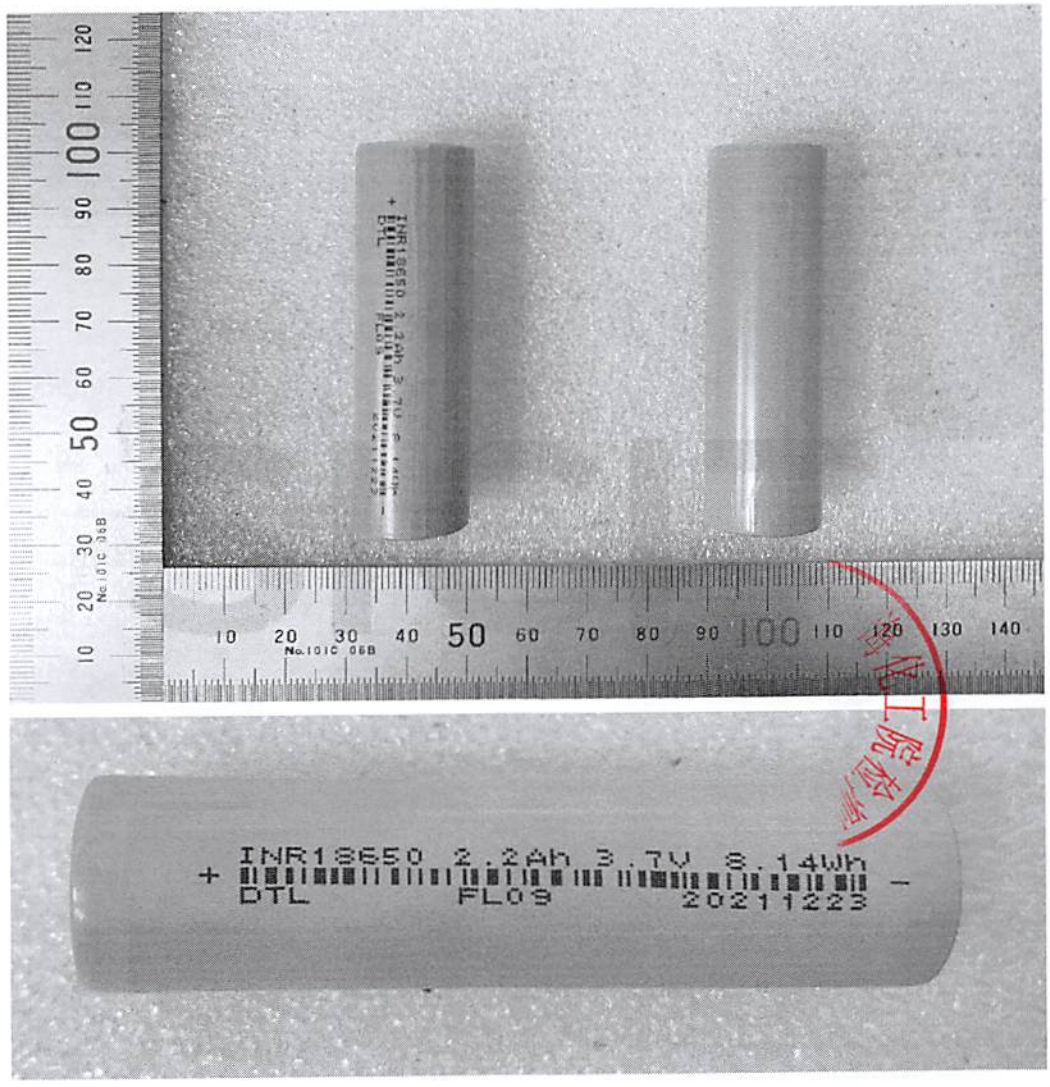
备注：D-解体 F-起火 O-无解体、无起火。
Note: D-Disassembly F-Fire O-No Disassembly & No Fire.

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.



报告结束