中国认可
检测
TESTING
CNAS L0748

170014233963

NO.1121060368

检 测 报 告

Test Report

样品名称： 锂离子可充电电芯 INR18650-29HE 3.6V 2760mAh

Name of Sample: Lithium ion rechargeable cell INR18650-29HE 3.6V 2760mAh

委托单位: 江苏天鹏电源有限公司

Consignor: Jiangsu Tenpower Lithium 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. 1121060368

样品名称 Name of Sample	中文 Chinese	锂离子可充电电芯 INR18650-29HE 3.6V 2760mAh		
	英文 English	Lithium ion rechargeable cell INR18650-29HE 3.6V 2760mAh		
样品编号 Sample No.	1121060368			
委托单位 Consignor	江苏天鹏电源有限公司 Jiangsu Tenpower Lithium Co., Ltd			
生产单位 Manufacturer	江苏天鹏电源有限公司 Jiangsu Tenpower 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	蓝色 圆柱型塑料薄膜外壳 Blue Cylinder plastics film shell			
样品接受日期 Accepted Date	2021-06-18	检测起迄日期 Test Date	2021-07-01 ～ 2021-08-02	
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): 2021-08-03			
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: 王宏　　审核 Checker: 高平　　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	/
8	以下空白	This space intentionally left blank			

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. 1121060368

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	45.6763	4.21	45.6756	4.20	0.00	99.76	O
002	1CYC完全充电 1CYC Fully charged	45.3723	4.21	45.3719	4.21	0.00	100.00	O
003	1CYC完全充电 1CYC Fully charged	45.3277	4.21	45.3267	4.21	0.00	100.00	O
004	1CYC完全充电 1CYC Fully charged	46.0662	4.21	46.0658	4.21	0.00	100.00	O
005	1CYC完全充电 1CYC Fully charged	45.4750	4.21	45.4750	4.21	0.00	100.00	O
006	25CYC完全充电 25CYC Fully charged	45.4945	4.21	45.4950	4.21	0.00	100.00	O
007	25CYC完全充电 25CYC Fully charged	45.5591	4.21	45.5591	4.21	0.00	100.00	O
008	25CYC完全充电 25CYC Fully charged	45.5218	4.21	45.5213	4.21	0.00	100.00	O
009	25CYC完全充电 25CYC Fully charged	45.5920	4.21	45.5913	4.21	0.00	100.00	O
010	25CYC完全充电 25CYC Fully charged	45.6357	4.21	45.6347	4.21	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	45.6756	4.20	45.6762	4.14	0.00	98.57	O
002	1CYC完全充电 1CYC Fully charged	45.3719	4.21	45.3718	4.14	0.00	98.34	O
003	1CYC完全充电 1CYC Fully charged	45.3267	4.21	45.3273	4.14	0.00	98.34	O
004	1CYC完全充电 1CYC Fully charged	46.0658	4.21	46.0655	4.14	0.00	98.34	O
005	1CYC完全充电 1CYC Fully charged	45.4750	4.21	45.4751	4.14	0.00	98.34	O
006	25CYC完全充电 25CYC Fully charged	45.4950	4.21	45.4944	4.14	0.00	98.34	O
007	25CYC完全充电 25CYC Fully charged	45.5591	4.21	45.5593	4.14	0.00	98.34	O
008	25CYC完全充电 25CYC Fully charged	45.5213	4.21	45.5212	4.12	0.00	97.86	O
009	25CYC完全充电 25CYC Fully charged	45.5913	4.21	45.5916	4.14	0.00	98.34	O
010	25CYC完全充电 25CYC Fully charged	45.6347	4.21	45.6347	4.14	0.00	98.34	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. 1121060368

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	45.6762	4.14	45.6761	4.14	0.00	100.00	O
002	1CYC完全充电 1CYC Fully charged	45.3718	4.14	45.3722	4.14	0.00	100.00	O
003	1CYC完全充电 1CYC Fully charged	45.3273	4.14	45.3275	4.14	0.00	100.00	O
004	1CYC完全充电 1CYC Fully charged	46.0655	4.14	46.0660	4.14	0.00	100.00	O
005	1CYC完全充电 1CYC Fully charged	45.4751	4.14	45.4753	4.14	0.00	100.00	O
006	25CYC完全充电 25CYC Fully charged	45.4944	4.14	45.4945	4.14	0.00	100.00	O
007	25CYC完全充电 25CYC Fully charged	45.5593	4.14	45.5593	4.12	0.00	99.52	O
008	25CYC完全充电 25CYC Fully charged	45.5212	4.12	45.5212	4.10	0.00	99.51	O
009	25CYC完全充电 25CYC Fully charged	45.5916	4.14	45.5913	4.13	0.00	99.76	O
010	25CYC完全充电 25CYC Fully charged	45.6347	4.14	45.6350	4.11	0.00	99.28	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. 1121060368

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	45.6761	4.14	45.6768	4.14	0.00	100.00	O
002	1CYC完全充电 1CYC Fully charged	45.3722	4.14	45.3729	4.13	0.00	99.76	O
003	1CYC完全充电 1CYC Fully charged	45.3275	4.14	45.3279	4.14	0.00	100.00	O
004	1CYC完全充电 1CYC Fully charged	46.0660	4.14	46.0663	4.14	0.00	100.00	O
005	1CYC完全充电 1CYC Fully charged	45.4753	4.14	45.4754	4.13	0.00	99.76	O
006	25CYC完全充电 25CYC Fully charged	45.4945	4.14	45.4951	4.14	0.00	100.00	O
007	25CYC完全充电 25CYC Fully charged	45.5593	4.12	45.5602	4.12	0.00	100.00	O
008	25CYC完全充电 25CYC Fully charged	45.5212	4.10	45.5219	4.08	0.00	99.51	O
009	25CYC完全充电 25CYC Fully charged	45.5913	4.13	45.5915	4.13	0.00	100.00	O
010	25CYC完全充电 25CYC Fully charged	45.6350	4.11	45.6358	4.11	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.

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+ INR18650-29HE 3.6V -
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报告结束