

锂电池 UN38.3 试验概要 Lithium Battery Test Summary

报告编号: LA2024B1616001UNZY

	单位信息 Compa	iny Information	
委托单位 Consignor	深圳市优格新能源科技有限。 Shenzhen Youge New Energy T 深圳市龙华区大浪街道陶元社 4th Floor, Building B, No. 3	echnology Co., LTD. 社区云峰路 35 号 B 栋厂房 4	
CES	Longhua District, Shenzhen 电话/Tel: 13686445115 邮	箱/Mail: 770146010@qq.c	
生产单位 Manufacturer	深圳市优格新能源科技有限。 Shenzhen Youge New Energy T 深圳市龙华区大浪街道陶元礼 4th Floor, Building B, No. 3 Longhua District, Shenzhen 电话/Tel: 13686445115 邮	echnology Co., LTD. 社区云峰路 35 号 B 栋厂房 4 5 Yunfeng Road, Taoyuan(Community, Dalang Street,
测试单位 Test Lab	深圳市莱恩瑞斯科技有限公司 Shenzhen Lionaces Technology 广东省深圳市宝安区福海街边 301, Building B6, Junfeng Indus Street, Baoan District, Shenzhe 电话/Tel: 0755-28280690 由 网址/Website: www.lionaces.c	r Co., Ltd. 道和平社区永和路骏丰工业 strial Zone, Yonghe Road, Hep en, Guangdong, China 『箱/Mail: service@lionaces	oing Community, Fuhai
	电池信息 Batte		
名称 Name	可充电锂离子电池 Rechargeable Li-ion Battery	电池/电芯类别 Battery/Cell Classification	锂离子电池 Li-ion Battery
型号 Type	YG162040	商标 Trademark	ONACES /
额定电压 Normal Voltage	3.7V	额定容量 Rated Capacity	1300mAh
额定能量 Watt-hour rating	4.81Wh	外观/Appearance	蓝色近长方体 Approximate Blue Cuboid
质量/Mass	23.5g	锂含量/Li Content	不适用 N/A

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Tel:(86-755)-28280690

Shenzhen Linaces Technolog



		测试信息 Test Ir	nformation			
测试报告编号 Test Report Number	LA20	24B1616001U	测试报告签 Date of Test		202	4-11-22
测试标准 Edition of UN Manual of Tests and Criteria Used		试验和标准手册》(第 al of Tests and Criteria"			bsection 38.	3
T.1: 高度模拟	通过	T.2: 温度试验	通过	T.3:	振动	通过
Altitude Simulation	Pass	Thermal Test	Pass	Vibr	ation	Pass
T.4: 冲击	通过	T.5: 外部短路	通过	T.6: 撞	击/挤压	通过
Shock	Pass	External Short Circu	it Pass	Impact	t/Crush	Pass
T.7: 过度充电	通过	T.8: 强制放电	通过		ONA	E and a second
Overcharge	Pass	Forced Discharge	Pass	1	LIV	100
UN38.3.3(f)	不适	适用 N/A	UN38.3.3	3(g)	不适用 N/A	
签名 Signatory 职务 Title	测试工程	3 Issue	支日期 ed Date	制科技	2024-11-22	LIONACES

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锂电池 UN38.3 测试报告 Lithium Battery UN38.3 Test Report

报告编号: Report No.:

LA2024B1616001U

样品名称 可充电锂离子电池

Sample Rechargeable Li-ion Battery

样品型号 Model YG162040

委托单位 深圳市优格新能源科技有限公司

Applicant Shenzhen Youge New Energy Technology Co., LTD.

签发日期 Issue Date 2024-11-22



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Shenzhen Linnages Technology Co.



声明

Statement

1、 本报告无本单位报告专用章和批准人签章无效。

This report is invalid without the special seal for report of Lionaces and the signatures of approver.

2、 本报告涂改和删除无效。

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3、 委托单位对检测结果有异议,应于收到报告之日起十五日内向我司提出。

If the applicant has any questions about results, shall submit to Lionaces within 15 days.

4、 本报告仅对客户所送样品负责。

This report is responsible for the sample provided by the client only.

5、 未经本单位许可,不得部分复制、摘用本报告书内容。

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6、 委托单位必须如实提供样品和资料,有关报告中的产品信息、参数、图纸、关键元器件清单等所有产品信息均由委托单位提供,否则本单位不承担任何相关责任。

The applicant must provide samples and materials truthfully. All of information such as product information, parameters, drawings, components, etc. are provided by the applicant. Otherwise we will not take on any relevant responsibilities for this report.

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报告编号 Report No.: LA2024B1616001U

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S	LIU,		AVAC
样品名称 Sample Name	可充电锂离子电池 Rechargeable Li-ion Battery	样品型号 Model Name	YG162040
电池规格 Battery specification	3.7V, 1300mAh, 4.81Wh	商标 Trade mark	N/A N/A
组成方式 Composing mode	1S2P	电池重量 Mass of battery	23.5g
电池外观 Battery appearance	蓝色近长方体 Approximate Blue Cuboid	电池尺寸 Battery Size	42.0mm*20.1mm*15.8mm
电池类型 Battery Type	可充电锂离子电池组 Rechargeable Lithium-ion Batter	y Pack	CES CES
测试实验室 Testing laboratory	深圳市莱恩瑞斯科技有限公司 Shenzhen Lionaces Technology	Co., Ltd.	LIONACES
测试地址 Testing Address	广东省深圳市宝安区福海街道和 ³ 301, Building B6, Junfeng Indust Street, Baoan District, Shenzher	trial Zone, Yonghe Ro	oad, Heping Community, Fuha
电话 Telephone	0755-28280690	邮箱 Email	service@lionaces.com
网址 website	www.lionaces.com	LIONAC	NACES
委托单位 Applicant	深圳市优格新能源科技有限公司 Shenzhen Youge New Energy Te	echnology Co., LTD.	LIONAL
委托单位地址 Applicant address	深圳市龙华区大浪街道陶元社区 4th Floor, Building B, No. 35 Yun Longhua District, Shenzhen		
生产单位 Manufacturer	深圳市优格新能源科技有限公司 Shenzhen Youge New Energy Te	echnology Co., LTD.	Lion
生产单位地址 Manufacturer address	深圳市龙华区大浪街道陶元社区 4th Floor, Building B, No. 35 Yun Longhua District, Shenzhen		
电话 Telephone	13686445115	邮箱 Email	770146010@qq.com
VIL	1017		NP FS

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2、测试标准 Standard

联合国《试验和标准手册》(第8版)38.3节

UN "Manual of Tests and Criteria" ST/SG/AC.10/11/Rev.8/Subsection 38.3

3、测试项目及结论 Test Item And Conclusion

测试项目 Item	测试样品编号 Samples Number	结论 Conclusion
38.3.4.1 高度模拟 Altitude simulation	LIONACES	通过 Pass
38.3.4.2 温度试验 Thermal test	503	通过 Pass
38.3.4.3 振动 Vibration	Z1~Z4, X1~X4	通过 Pass
38.3.4.4 冲击 Shock	LIONALLONA	通过 Pass
38.3.4.5 外部短路 External Short Circuit	OCES TO THE REAL PROPERTY OF THE PERTY OF TH	通过 Pass
38.3.4.6 挤压 Crush	Z5~Z9, X5~X9	通过 Pass
38.3.4.7过度充电Overcharge	Z10~Z13, X10~X13	通过 Pass
38.3.4.8 强制放电 Forced discharge	Z14~Z23, X14~X23	通过 Pass
2.10	TANK TO THE TANK T	

参考组装电池测试要求,如果适用(38.3.3(f)和 38.3.3(g):不适用

Reference to assembled battery testing requirements, if applicable (i.e., 38.3.3(f) and 38.3.3(g)): Not applicable

说明 Notes: P--Pass; N/A--不适用 not applicable; Y--Yes; N--No;

Z1~Z4, Z10~Z13: 第一个充放电周期完全充电状态的电池; Batteries at first cycle in fully charged states;

Z5~Z9: 第一个充放电周期 50%设计额定容量状态的电池芯; Cells at first cycle at 50% of the design rated capacity;

Z14~Z23: 第一个充放电周期完全放电状态的电池芯; Cells at first cycle in fully discharged states;

X1~X4 X10~X13: 25 个充放电周期后完全充电状态的电池; Batteries after 25 cycles ending in fully charged states;

X5~X9: 25 个充放电周期 50%设计额定容量状态的电池芯; Cells after 25 cycles at 50% of the design rated capacity;

X14~X23: 25 个充放电周期后完全放电状态的电池芯; Cells after 25 cycles ending in fully discharged states.

送检样品符合《联合国关于危险货物运输的建议书:试验和标准手册》38.3章的要求。

The submitted samples complied with UN Manual of Tests and Criteria, Part III, sub-section 38.3.

版本号: V1.0

收样日期 Receiving Date	2024-11-08	测试日期 Test Date	2024-11-08 to 2024-11-22	签发日期 Issue Date	2024-11-22
主检人: Prepared by	3935	审核人: Checked by	多强	批准人: Approved by	到孩孩

吴君扬 Wu JunYang: 测试工程师 Quality Testing Engineer

曾 强 Allen Zeng: 实验室经理 Lab Manager

刘海滨 Liu haibin: 授权签字人 Authorized Signatory

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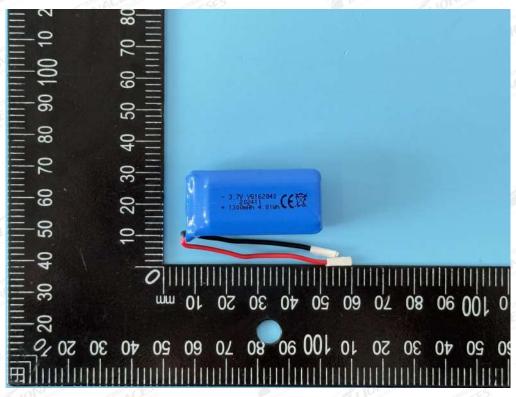
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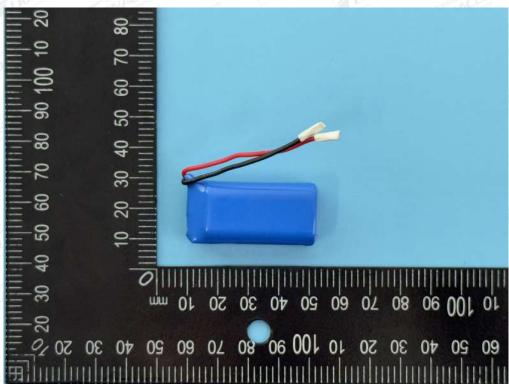


4、样品图片 Sample Photos

电池/Battery (YG162040

3.7V, 1300mAh, 4.81Wh)





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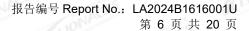
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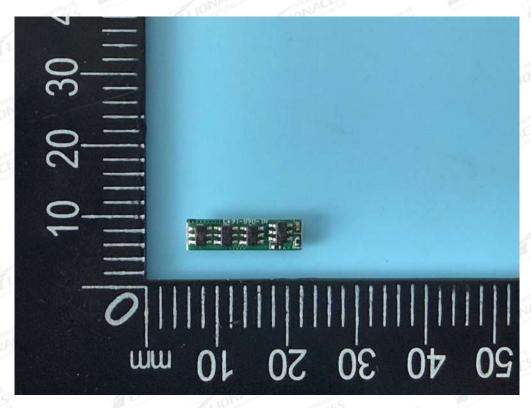
E-mail:service@lionaces.com

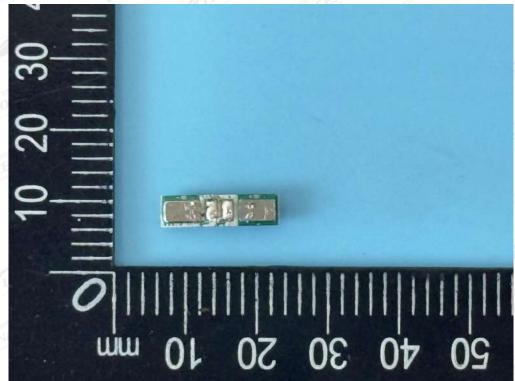
Shenzhen Linaces Technology Co.

Tel:(86-755)-28280690









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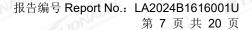
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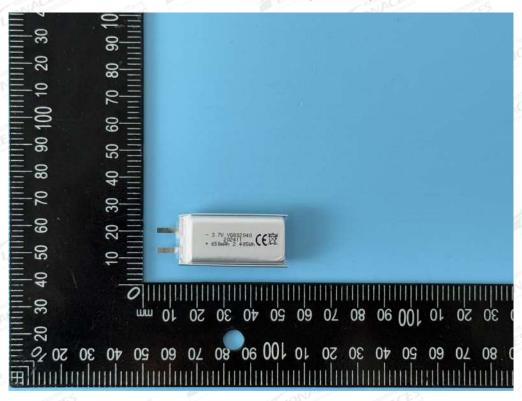
Tel:(86-755)-28280690

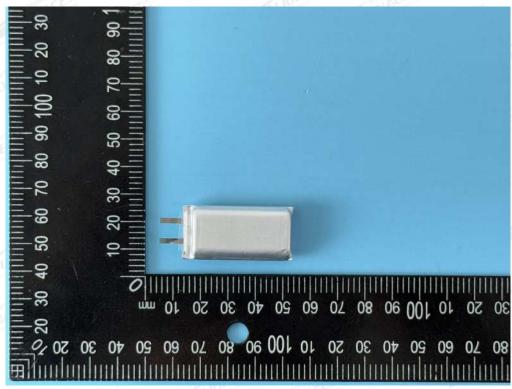




电芯/Cell (YG802040

3.7V, 650mAh, 2.405Wh)





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5、测试方法及判定 Test Method And Verdict

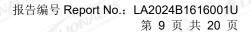
章节 Clause	标准要求 Requirements	测试结果 Result	判定 Verdict
38.3.4.1	测试 1: 高度模拟 Test 1: Altitude simulation	见表 1 See Table 1	PLIO
LIONACES	试验电池和电池组应压力不大于11.6kpa和环境温度为20±5℃的条件下贮存不少于6个小时。 Test cells and batteries shall be stored at a pressure of 11.6kPa or less for at least six hour at ambient temperature (20±5℃)	无渗漏, 无排气,无解	LIONACE
	要求电池和电池组无渗漏、无排气、无解体、无破裂和无起火,并且每个试验电池或电池组在试验后的开路电压不小于其在进行这一试验前电压的90%。有关电压的要求不适用于完全放电状态的试验电池和电池组。	体,无破裂和 无起火。 No leakage, no venting, no	ACES P
	Cells and batteries meet this requirement if there is no leakage, no venting, no disassemble, no rupture and no fire and if the open circuit voltage of each test cell or battery after testing is not less than 90% of its voltage immediately prior to this procedure. The requirement relating to voltage is not applicable to test cells and batteries at fully discharged states.	venting, no disassemble, no rupture and no fire.	LIONA
38.3.4.2	测试 2: 温度试验 Test 2: Thermal test	见表 2 See Table 2	Ps
	试验电池和电池组先在试验温度等于72℃±2℃的条件下存放至少6小时,接着再在试验温度等于-40℃±2℃的条件下存放至少6小时。两个极端试验温度之间的最大时间间隔为30分钟。此程序重复进行,共完成10次,接着将所有试验电池和电池组在环境温度(20℃±5℃)下存放24小时。对于大型电池和电池组,暴露于极端试验温度的时间至少应为12小时。 Test cells and batteries are to be stored for at least six hours at a test temperature equal to 72±2℃, followed by storage for at least six hours at a test temperature equal to -40±2℃. The maximum time interval between test temperature extremes is 30 minutes. This procedure is to be repeated until 10 total cycles are complete, after which all test cells and batteries are to be stored for 24 hours at ambient temperature (20 ± 5℃). For large cells and batteries the duration of exposure to the test temperature extremes should be at least 12 hours. 要求电池和电池组无渗漏、无排气、无解体、无破裂和无起火,并且每个试验电池或电池组在试验后的开路电压不小于其在进行这	无渗漏, 无排气,无解 体,无破裂和 无起火。 No leakage, no venting, no disassemble, no rupture and no fire.	LIONAC
LIONA	一试验前电压的90%。有关电压的要求不适用于完全放电状态的试验电池和电池组。 Cells and batteries meet this requirement if there is no leakage, no venting, no disassemble, no rupture and no fire and if the open circuit voltage of each test cell or battery after testing is not less than 90% of its voltage immediately prior to this procedure. The requirement relating to voltage is not applicable to test cells and batteries at fully discharged states.	and no life.	LION

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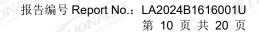
章节 Clause	标准要求 Requirements	测试结果 Result	判定 Verdict
38.3.4.3	测试3: 振动 Test 3: Vibration	见表 3 See Table 3	P
LIONA	电池和电池组紧固于振动机平台,但不得造成电池变形,并能准确可靠地传播振动。振动应是正弦波形,对数扫描频率在 7 赫兹和 200 赫兹之间,再回到 7 赫兹,跨度为 15 分钟。这一振动过程须对三个互相垂直的电池安装方位的每一方向重复进行 12 次,总共为时 3 小时。其中一个振动方向必须与端面垂直。	LIONACES	LIU
	Cells and batteries are firmly secured to the platform of the vibration machine without distorting the cells in such a manner as to faithfully transmit the vibration. The vibration shall be a sinusoidal waveform with a logarithmic sweep between 7 Hz and	JONACES	ACES
	200 Hz and back to 7 Hz traversed in 15 minutes. This cycle shall be repeated 12 times for a total of 3 hours for each of three mutually perpendicular mounting positions of the cell. One of the directions of vibration must be perpendicular to the terminal face. 作对数式频率扫描,对总质量不足 12 千克的电池和电池组(电	LIONACES	LIONA
	池和小型电池组),和对 12 千克及更大的电池组(大型电池组)有 所不同。 The logarithmic frequency sweep shall differ for cells and batteries with a gross mass of not more than 12 kg (cells and small batteries), and for batteries with a gross mass of more than 12 kg	无渗漏, 无排气,无解 体,无破裂和	ONACES
	(large batteries). 对电池和小型电池组:从7赫兹开始,保持1g _n 的最大加速度,直到频率达到18赫兹。然后将振幅保持在0.8毫米(总偏移1.6毫米),并增加频率直到最大加速度达到8g _n (频率约为50赫兹)。将最大加速度保持在8g _n 直到频率增加到200赫兹。	无起火。 No leakage, no venting, no	CES P
	For cells and small batteries: from 7 Hz a peak acceleration of $1g_n$ is maintained until 18 Hz is reached. The amplitude is then maintained at 0.8 mm (1.6 mm total excursion) and the frequency increased until a peak acceleration of $8g_n$ occurs (approximately 50 Hz). A peak acceleration of $8g_n$ is then maintained until the	disassemble, no rupture and no fire.	LIONAC
	frequency is increased to 200 Hz. 对大型电池组:从 7 赫兹开始,保持 1gn 的最大加速度,直到频率达到 18 赫兹。然后将振幅保持在 0.8 毫米(总偏移 1.6 毫米),并增加频率直到最大加速度达到 2gn(频率约为 25 赫兹)。将最大加速度保持在 2gn 直到频率增加到 200 赫兹。	LIONACES	ACES
	For large batteries: from 7 Hz to a peak acceleration of $1g_n$ is maintained until 18 Hz is reached. The amplitude is then maintained at 0.8 mm (1.6 mm total excursion) and the frequency increased until a peak acceleration of $2g_n$ occurs (approximately 25 Hz). A peak acceleration of $2g_n$ is then maintained until the	ACES	LION
	frequency is increased to 200 Hz. 要求电池和电池组试验中和试验后无渗漏、无排气、无解体、无破裂和无起火,并且每个试验电池或电池组在第三个垂直安装方位上的试验后立即测得的开路电压不小于在进行这一试验前电压的	LIONACES	IONACES

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章节 Clause		标准要求 Requirements		测试结果 Result	判定 Verdict
3	90%。有关电压 组。	的要求不适用于完全放电状态的证	式验电池和电池	LIONAC	ES.
	leakage, no ver the open circuit not less than 90 The requiremen	patteries meet this requirement if the nating, no disassemble, no rupture to voltage of each test cell or batter 0% of its voltage immediately prior at relating to voltage is not applicate the fully discharged states.	and no fire and if y after testing is r to this procedure.	LIONACES	LIONACE
38.3.4.4	测试4:冲击 Test 4: Shock	ONACES	LIONA	见表 4 See Table 4	P
CES	试验电池和 个试验电池组的	电池组用坚硬支架紧固在试验装置 J所有安装面。	上,支架支撑着每	110	
		nd batteries shall be secured to th rigid mount which will support all r ttery.		ACE?	
		经受最大加速度150gn和脉冲持续时型电池需经受最大加速度50gn和脉中击。		LIO ES	LION
	Each cell sh acceleration of Alternatively, la	hall be subjected to a half-sine should g_n and pulse duration of 6 mill rge cells may be subjected to a half-size g_n	liseconds. alf-sine shock of	LIONAL	ONACES
	每个电池组》 击。对于小型电	on of 50g _n and pulse duration of 1 应根据电池组的质量而受到峰值加 总池组的脉冲持续时间应6毫秒,对 g11毫秒,下面的公式用于计算适当	速度的半正弦波冲 于大型电池组的脉	无渗漏, 无排气,无解 体,无破裂和 无起火。	CES LIO
	电池 Battery	最小峰值加速度 Minimum peak acceleration	脉冲持续时间 Pulse duration	No leakage, no	Р
	小型电池 Small batteries	150g _n 或公式结果中的较小值 150g _n or result of formula $ \text{Acceleration } (g_{\text{n}}) = \sqrt{\frac{100850}{\text{mass}^*}} $ whichever is smaller	6毫秒 6ms	venting, no disassemble, no rupture and no fire.	LIONAL
	大型电池	50gn 或公式结果中的较小值 50gn or result of formula	LIONACES	ACES	3
	人型电池 Large batteries	Acceleration (g _n)= $\sqrt{\left(\frac{3000}{\text{mass}^*}\right)}$	11毫秒 11ms	LIONAC	LION
	·	whichever is smaller	lilo gram s		
	Each batter	:单位用千克计算 Mass is expressed in y shall be subjected to a half-sine pending on the mass of the batter	shock of peak	LIONACE	IONACE

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Shenzhen Linaces Technology Co.



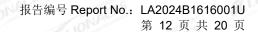
章节 Clause	标准要求 Requirements	测试结果 Result	判定 Verdic
LIONA	milliseconds for large batteries. The formulas below are provided to calculate the appropriate minimum peak accelerations. 每个电池或电池组需在三个互相垂直的安装方位的正方向经受三次冲击,接着在反方向经受三次冲击,总共经受18次冲击。 Each cell or battery is subjected to three shocks in the positive	LIONAC	ES.
	direction followed by three shocks in the negative direction of each of three mutually perpendicular mounting positions of the cell for a total of 18 shocks.	LIONACE	LIONACI
	要求电池和电池组无渗漏、无排气、无解体、无破裂和无起火,并且每个试验电池或电池组在试验后的开路电压不小于其在进行这一试验前电压的90%。有关电压的要求不适用于完全放电状态的试验电池和电池组。	IONACES	ACES
	Cells and batteries meet this requirement if there is no leakage, no venting, no disassemble, no rupture and no fire and if the open circuit voltage of each test cell or battery after testing is not less than 90% of its voltage immediately prior to this procedure. The requirement relating to voltage is not applicable to test cells and batteries at fully discharged states.	LIONACES	Lion
8.3.4.5	测试 5: 外部短路 Test 5: External Short Circuit	见表 5 See Table 5	ONA PS
Lion	待测试的电池或电池组应加热一段时间,以使其外表面温度达到 均匀稳定的 57±4℃的温度。加热时间取决于电池或电池组的大小和 设计,并应进行评估和记录。如果这种评估是不可行的,对于小型 电池和小型电池组至少在 57±4℃的环境下存放 6 小时,对于大型电 池和大型电池组至少在 57±4℃的环境下存放 12 小时。然后电池或 电池组在 57±4℃的环境中,应接受一个外部总阻值小于 0.1 欧姆的 短路条件。	NACES LIONA	ŒS
	The cell or battery to be tested shall be shall be heated for a period of time necessary to reach a homogeneous stabilized temperature of 57±4°C, measured on the external case. This period of time depends on the size and design of the cell or battery and should be assessed and documented. If this assessment is not feasible, the exposure time shall be at least 6 hours for small cells and small batteries, and 12 hours for large cells and large	无解体, 无破裂,无起 火。No disassemble,	LIONA
	batteries. Then the cell or battery at 57±4℃ shall be subjected to one short circuit condition with a total external resistance of less than 0.1 ohm. 这一短路条件应在电池或电池组的外壳温度回到 57±4℃后继续	no rupture and no fire.	3
LIONA	短路 1 小时,或对于大型电池组其外壳温度已下降了一半的最大升温,并保持低于该值。短路和冷却过程至少在环境温度中进行。 This short circuit condition is continued for at least one hour after the cell or battery external case temperature has returned to 57 ± 4 °C, or in the case of the large batteries, has decreased by half of the maximum temperature increase observed during the test and remains below that value. The short circuit and cooling down st pepting only to the samples(s) tested by unless otherwise stated and the sample(s) are retained for 30	LIONACES	LIONACE

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章节 Clause	标准要求 Requirements	测试结果 Result	判定 Verdict
ES ES	phases shall be conducted at least at ambient temperature.	10NAC	ES
LIONA	要求电池和电池组外壳温度不超过 170℃,并且在试验过程中及 试验后 6 小时内无解体,无破裂,无起火。 Cells and batteries meet this requirement if their external temperature does not exceed 170℃ and there is no disassemble, no rupture and no fire within six hours of this test.	LIONACES	LIONACES
38.3.4.6	测试 6: 撞击/挤压 Test 6: Impact / Crush	见表 6 See Table 6	P
LIONAC	撞击(适用于直径大于等于 18 毫米的圆柱形电池) Impact (applicable to cylindrical cells not less than 18mm in diameter)	LIONACES	LIONA
	The test sample cell or component cell is to be placed on a flat smooth surface. A 15.8mm±0.1mm diameter, at least 6cm long, or the longest dimension of the cell, whichever is greater, Type 316 stainless steel bar is to be placed across the centre of the sample. A 9.1 kg ± 0.1kg mass is to be dropped from a height of 61 ± 2.5 cm at the intersection of the bar and sample in a controlled manner using a near friction less, vertical sliding track or channel with minimal drag on the falling mass. The vertical track or channel used to guide the falling mass shall be oriented 90 degrees from	NACES LIONA	ONACES CES LIOI N/A
	the horizontal supporting surface. 接受撞击的试样,纵轴应与平坦表面平行并与横放在试样中心的直径 15.8±0.1 毫米弯曲表面的纵轴垂直。每一试样只经受一次撞击。 The test samples is to be impacted with its longitudinal axis parallel to the flat surface and perpendicular to the longitudinal axis of the 15.8mm±0.1mm diameter curved surface lying across the centre of the test samples. Each sample is to be subjected to only a single impact.	LIONACES	LIONAC
	要求电池和电池组外壳温度不超过 170℃,并且在试验过程中及试验后 6 小时内无解体,无起火。 Cells and component cells meet this requirement if their external temperature does not exceed 170℃ and there is no disassemble and no fire during the test and within six hours after this test.		LIONA

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章节 Clause	标准要求 Requirements	测试结果 Result	判定 Verdict
3	挤压 (适用于棱柱形、袋装、硬币/纽扣电池和直径小于 18 毫米的圆柱形电池)	LIONAC	ES
	Crush (applicable to prismatic, pouch, coin/button cells and cylindrical cells less than 18mm in diameter) 将电池或元件电池放在两个平面之间挤压,挤压力度逐渐加大,在第一个接触点上的速度大约为1.5厘米/秒。挤压持续进行,直到出	3 TONACES	LIO
	现以下三种情况之一:		LIONACI
	(a) 施加的力量达到13千牛±0.78千牛; (b) 电池的电压下降至少100毫伏;或	THE THE PARTY OF T	
	(c) 电池变形达原始厚度的50%或以上。	100	ACE
	A cell or component cell is to be crushed between two flat surfaces. The crushing is to be gradual with a speed of approximately 1.5cm/s at the first point of contact. The crushing is to be continued until the first of the three options below is reached.	ACES LIE	
	(a) The applied force reaches 13kN±0.78kN;(b) The voltage of the cell drops by at least 100mV; or(c) The cell is deformed by 50% or more of its original thickness.	LION	LION
	一旦达到最大压力、电压下降 100 毫伏或更多,或电池变形至少达原厚度的 50%,即可解除压力。	无解体, 无破裂,无起 火。No	ONACES ONACES
	Once the maximum pressure has been obtained, the voltage drops by 100mV or more, or the cell is deformed by at least 50% of its original thickness, the pressure shall be released. 核柱形或袋装电池应从最宽的一面施压。纽扣/硬币形电池应从其平坦表面施压。圆柱形电池应从与纵轴垂直的方向施压。	disassemble , no rupture and no fire.	CES.
	A prismatic or pouch cell shall be crushed by applying the force to the widest side. A button/coin cell shall be crushed by applying the force on its flat surfaces. For cylindrical cells, the crush force shall be applied perpendicular to the longitudinal axis. 每个试样电池或元件电池只做一次挤压试验。试样应继续观察 6	LIONACES	LIONA
	小时。试验应使用之前未做过其他试验的电池或元件电池进行。 Each test cell or component cell is to be subjected to one crush only. The test Samples shall be observed for a further 6 h. The test shall be conducted using test cells or component cells that have	LIONACES	IACES
	not previously been subjected to other tests. 要求电池和电池组外壳温度不超过170℃,并且在试验过程中及	ACES	s, V
LIONA	试验后6小时内无解体,无起火。 Cells and component cells meet this requirement if their external temperature does not exceed 170℃ and there is no disassemble and no fire during the test and within six hours after this test.	LIONACI	Lion
8.3.4.7	测试 7: 过充电 Test 7: Overcharge	见表 7 See Table 7	ION P

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章节 Clause	标准要求 Requirements	测试结果 Result	判定 Verdict
5	充电电流必须是制造商建议的最大持续充电电流的两倍。试验的 最小电压如下:	LIONAC	ES.
LIONA	(a) 制造商建议的充电电压不大于18伏时,试验的最小电压应 是电池组最大充电电压的两倍或22伏两者中的较小者;	Š.	110
CES	(b) 制造商建议的充电电压大于18伏时,试验的最小电压应为最大充电电压的1.2倍。	LIONAC	10NACE
ION	试验应在环境温度下进行,进行试验的时间应为 24 小时。 The charge current shall be twice the manufacturer's recommended maximum continuous charge current. The minimum voltage of the test shall be as follows:	无分解,	ACES
CES TU	(a) When the manufacturer's recommended charge voltage is not more than 18V, the minimum voltage of the test shall be the lesser of two times the maximum charge voltage of the battery or 22V.	无起火。No disassemble and no fire.	P
LIONACI	(b) When the manufacturer's recommended charge voltage is more than 18V, the minimum voltage of the test shall be 1.2 times the maximum charge voltage. Tests are to be conducted at ambient temperature; the duration	LIONACE	LION
	of the test shall be 24 hours.	LIONACES	CES
NACES	要求充电电池组在试验过程中和试验后 7 天内无解体,无起火。 Rechargeable batteries meet this requirement if there is no disassemble and no fire during the test and within seven days after the test.	ACES TU	ONAC
38.3.4.8	测试 8: 强制放电 Test 8: Forced discharge	见表 8 See Table 8	Р
LION	每个电池应在环境温度下与 12V 直流电源上进行强制放电,此 直流电源串联在起始电流等于制造商给定的最大放电电流条件下强 制放电。	ES TONACES	
IONACES	Each cell shall be forced discharged at ambient temperature by connecting it in series with a 12V D.C. power supply at an initial current equal to the maximum discharge current specified by the manufacturer.	ONACES	LION
ACES ACES	将适当大小和额定值的电阻负荷与试验电池串联,计算得出给定的放电电流。对每个电池进行强制放电,放电时间(小时)应等于其额定容量除以初始试验电流(安培)。	无分解, 无起火。No disassemble	P
LIONA	The specified discharge current is to be obtained by connecting a resistive load of the appropriate size and rating in series with the test cell. Each cell shall be forced discharged for a time interval (in hours) equal to its rated capacity divided by the initial test current (in ampere).	and no fire.	Lion
	要求原电池或充电电池在试验过程中和试验后 7 天内无解体,无起火。Primary or rechargeable cells meet this requirement if there is no disassemble and no fire during the test and within seven days after the test.	LIONACES	IONACE

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6、测试数据 Test Data

表 1 Table 1	ION	NACESE		度模拟 simulation	TI.	IONA	ONACES P
样品	测试前 B	efore test	测试后,	After test	质量损失	 剩余电压	有无渗漏,排气, 解体,破裂和起火
编号 Sample No.	质量 Mass (g)	电压 Voltage (V)	质量 Mass (g)	电压 Voltage (V)	Mass loss (%)	Remaining voltage (%)	Whether leakage, venting, disassemble, rupture, fire (Y/N)
Z1	23.500	4.18	23.489	4.16	0.05	99.52	N LIO
Z2	23.491	4.18	23.488	4.17	0.01	99.76	CESN
Z3	23.481	4.18	23.478	4.17	0.01	99.76	LION N JONAC
Z4	23.427	4.18	23.425	4.17	0.01	99.76	N
X1	23.491	4.18	23.478	4.18	0.06	100.00	ACES N
5 X2	23.465	4.18	23.449	4.16	0.07	99.52	NACE
Х3	23.408	4.18	23.398	4.18	0.04	100.00	N
X4	23.487	4.19	23.473	4.17	0.06	99.52	N

表 2 Table 2	ONACE	5		度试验 rmal test	IONAC	HONACES	P
样品	测试前 B	efore test	测试后,	After test	质量损失	剩余电压	有无渗漏,排气, 解体,破裂和起火
编号 Sample No.	质量 Mass (g)	电压 Voltage (V)	质量 Mass (g)	电压 Voltage (V)	Mass loss (%)	Remaining voltage (%)	Whether leakage, venting, disassemble, rupture, fire (Y/N)
Z1	23.489	4.16	23.480	4.11	0.04	98.80	LIOIN
Z2	23.488	4.17	23.481	4.11	0.03	98.56	N
Z3	23.478	4.17	23.466	4.10	0.05	98.32	ONACIN
Z4	23.425	4.17	23.405	4.11	0.09	98.56	N
X1	23.478	4.18	23.475	4.11	0.01	98.33	N
X2	23.449	4.16	23.429	4.10	0.09	98.56	VACES N
X3	23.398	4.18	23.387	4.11	0.05	98.33	NNA
X4	23.473	4.17	23.463	4.11	0.04	98.56	N

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表 3	IONACL	THE CESE		振动	1/1	IONACE	NACE P
Table 3 样品	测试前 B	efore test	- IA	oration After test	医导提出	剩余电压	有无渗漏,排气,
编号 Sample No.	质量 Mass (g)	电压 Voltage (V)	质量 Mass (g)	电压 Voltage (V)	质量损失 Mass loss (%)	Remaining voltage (%)	解体,破裂和起火 Whether leakage, venting, disassemble, rupture, fire (Y/N)
Z1	23.480	4.11	23.470	4.09	0.04	99.51	N LIG
Z2	23.481	4.11	23.480	4.10	0.00	99.76	CESN .
Z3	23.466	4.10	23.456	4.08	0.04	99.51	LION N JONAS
Z4	23.405	4.11	23.393	4.10	0.05	99.76	N
X1	23.475	4.11	23.465	4.10	0.04	99.76	JACES N
X2	23.429	4.10	23.427	4.09	0.01	99.76	NIACES
Х3	23.387	4.11	23.385	4.10	0.01	99.76	N
X4	23.463	4.11	23.453	4.10	0.04	99.76	N

表 4 Table 4	ONACE	S	冲击	5 Shock	IONACE	HONACES	P
以 口	测试前 B	efore test	测试后,	After test	医导坦化	剩入由口	有无渗漏,排气,
样品 编号 Sample No.	质量 Mass (g)	电压 Voltage (V)	质量 Mass (g)	电压 Voltage (V)	质量损失 Mass loss (%)	剩余电压 Remaining voltage (%)	解体,破裂和起火 Whether leakage, venting, disassemble, rupture, fire (Y/N)
Z1	23.470	4.09	23.452	4.09	0.08	100.00	LION
Z2	23.480	4.10	23.475	4.08	0.02	99.51	N
Z3	23.456	4.08	23.444	4.08	0.05	100.00	ONACEN
Z4	23.393	4.10	23.385	4.08	0.03	99.51	N JONAC
X1	23.465	4.10	23.447	4.09	0.08	99.76	N
X2	23.427	4.09	23.414	4.09	0.06	100.00	VACES N
X3	23.385	4.10	23.383	4.08	0.01	99.51	NNAC
X4	23.453	4.10	23.442	4.09	0.05	99.76	N N

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表 5 Table 5	外短路 External short circuit	LIONAP LIONACES
样品编号 Sample No.	最高温度 Peak temperature (°C)	有无解体,破裂,起火 Whether disassemble, rupture, fire (Y/N)
Z1 JON	57.8	Nonaces
Z2	58.2	ES N LION
Z3	57.9	NACES NACES
Z4	57.9	LIOIN
X1	58.6	N LIONAE
X2	58.5	JONAC N
X3	57.7	JONAC N ACES
X4	57.8	N LIO

表 6 Table 6	挤压 Crush	LIONACE PARCES
样品编号 Sample No.	最高温度 Peak temperature (°C)	有无解体,起火 Whether disassemble, fire (Y/N)
Z5 S	23.9	HONACE
Z6	24.3	LIO N NACES
Z 7	23.7	N LION
Z8	23.9	ON N
Z9	23.8	N ONACE
X5	24.7	ES N JONACE
X6	24.8	N N
X7	24.6	NCES NCES
X8	24.1	N LION
X9	24.3	N LI

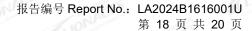
表 7 Table 7	过度充电 Overcharge	and the same	PLION	
样品编号 Sample No.	110	有无解体,起 ether disassemble		
Z10	ACES	N	LIONAL	CES
Z11	LION	ES N	1	LION
Z12	1101	UONN	The Control of the Co	- 1

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Z13	Lio	LION N	CES .	
X10	ACESES ACESES	N LION	ONACE	
X11	HONACL	N N		TIONA
X12	3	N NACES		
X13	The state of the s	N	ONACES	CES

AL IV	
强制放电 Forced discharge	HONACES
Whet	有无解体,起火 her disassemble, fire (Y/N)
1101	JONAC N
ACES	N JONACES
IONACE	N LIU
Jon	N INCES
	LN
ONACES.	S N LIONACE
LIONA	N
THE STATE OF THE S	LION N ONACE
ONAC	N INACE
LIONAL	N III
2	N NACES
ACES,	NICONAC
LION	ES N
1101	10N Comments
THE CES	N HONACES
LIONACES	N 110
The same	ONAC N
NACES .	N LION
aNACES.	N LION JON
110	N S
	Forced discharge

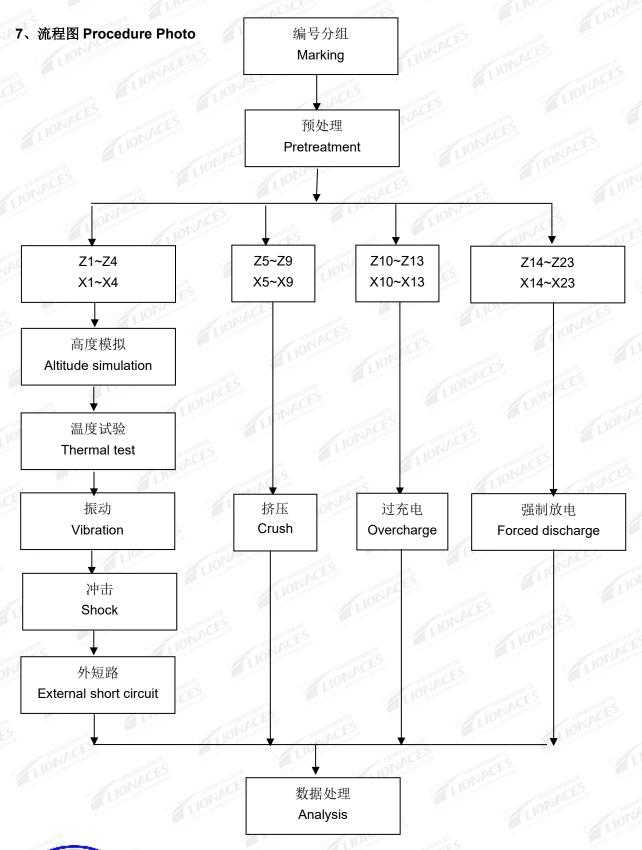
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8、测试设备 Test equipment

LA-BT-E068	电子天平秤
EX BY Eddo	Electronic balance
LA-BT-E024	万用表
LA-DT-LUZ4	Multimeter
LA-BT-E004	电池低气压高空模拟试验箱
L/1-L004	Battery pressure simulation test tank
LA-BT-E014	高低温(交变)湿热试验箱
LA-DI-LUI4	High and low temperature (alternating) hot and heat test box
LA-BT-E013	电磁式振动试验机
LA-DI-LUIS	Electromagnetic vibration testing machine
LA-BT-E086	机械式冲击试验机
LA-B1-E000	Mechanical impact tester
LA-BT-E096	数字式温度记录仪
LA-D1-E090	Digital temperature recorder
LA-BT-E097	电池短路实验机
LA-D1-E091	Battery short circuit tester
LA-BT-E084	电池挤压试验机
LA-D1-E004	Battery crush test instrument
LA-BT-E079	LIONACE
LA-BT-E080	直流稳压电源
LA-BT-E081	DC power supply
LA-BT-E082	Bo power suppry
LA-BT-E083	(10 ^N)
LA-BT-E091	本次 4年4年
LA-BT-E092	直流稳压电源
LA-BT-E093	DC power supply
LA-BT-E094	CANAL SESSION

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锂电池跌落测试报告 Lithium Battery Drop Test Report

报告编号:

Report No.:

LA2025B0247001D

样品名称 可充电锂离子电池

Samples Rechargeable Li-ion Battery

样品型号 Model YG162040

委托单位 深圳市优格新能源科技有限公司

Applicant Shenzhen Youge New Energy Technology Co., LTD.

签发日期 Issue Date 2025-02-11

深圳市莱恩瑞斯科技有限公司

Shenzhen Lionaces Technology Co., Ltd.

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第2页共5页

1. 样品描述 Sample Description

电池名称 Sample Name	可充电锂离子电池 Rechargeable Li-ion Ba	attery ONAC				
样品型号 Sample Model	YG162040	3.7V, 1300mAh, 4.81Wh				
实验室 Laboratory	深圳市莱恩瑞斯科技有限 Shenzhen Lionaces Teo		IONACES			
实验地址 Testing Address	301, Building B6, Junfe	广东省深圳市宝安区福海街道和平社区永和路骏丰工业区 B6 栋 301 301, Building B6, Junfeng Industrial Zone, Yonghe Road, Heping Community, Fuhai Street, Baoan District, Shenzhen, Guangdong, China				
委托单位 Applicant	深圳市优格新能源科技		CLES			
委托单位地址 Applicant Address	深圳市龙华区大浪街道陶元社区云峰路 35 号 B 栋厂房 4 层 4th Floor, Building B, No. 35 Yunfeng Road, Taoyuan Community, Dalang Street, Longhua District, Shenzhen					
生产单位 Manufacturer	深圳市优格新能源科技有限公司 Shenzhen Youge New Energy Technology Co., LTD.					
生产单位地址 Manufacturer Address		淘元社区云峰路 35 号 B 树 o. 35 Yunfeng Road, Taoy t, Shenzhen				
包装件描述 Packa	aging Description	LIONAL	B The state of the			
外包装 Outer package	瓦楞纸箱 Corrugated carton	内包装 Inner package	吸塑盘 Blister disc			
衬垫材料 Cushion	吸塑盘 Blister disc	包装件尺寸 Dimension	313mm*288mm*240mm			
包装件毛重 Gross weight	10Kg	电池尺寸 Battery dimension	42.0mm*20.1mm*15.8mm			
包装件电池净重 Net weight	9.4Kg	电池数量 Battery number	400Pcs			
收样日期 Receiving Date	2025-02-05 完成日期 Completing Date		2025-02-07			
包装方式 Packaging type	包装箱内含锂电池。 Package including lithium batteries .					
	2.10	- C 5	ann			

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2. 参考方法 Reference Method

(ST/SG/AC.10/1/Rev.23)《联合国关于危险品运输建议书——规章范本》 《Recommendations On The Transport Of Dangerous Goods-Model Regulations》

3. 测试项目 Test Item

1.2 米跌落试验、包装件毛重测试

1.2m Drop test、Gross Weight Measure

4. 测试方法 Test Method

每个装有电池的包装件需要做 5 次 1.2m 自由跌落。

The package of batteries is dropped from 1.2m, 5 times per package.

5. 测试设备 Test equipment

LA-BT-E011 包装跌落试验机 Packing drop tester LA-BT-E102 电子天平秤 Electronic balance

6. 实验室环境条件 Test Environment Condition

温度 Ambient temperature: 20~25 (℃) 相对湿度 Ambient humidity: 50~60 (%)

7. 测试结果 Test Data

测试项目 Test Item	测试结果 Test Result	结论 Conclusion
1.2m (面、棱、点跌落) (Side\Edge\Angle)	1、包装件内的电池没有破损或泄漏 2、内装物没有移动,并且没有导致电池与电池(或电池芯与电池芯)相互接触 3、内装物没有泄漏 1, Without damage to cells or batteries contained therein; 2, Without shifting of the contents so as to allow battery to battery (or cell to cell) contact; 3, Without release of contents.	被测试包装件能够承受 1.2 米跌落试验 The test package is capable of withstanding a 1.2m drop test in any orientation.
包装件毛重测试	INCES TONACE	NACES
Gross Weight	10Kg	合格 Pass
Measure	THE REPORT OF THE PARTY OF THE	LION

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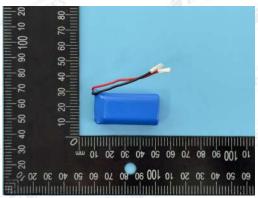


8. 样品图片 Sample Photo











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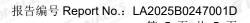
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All of information such as product information, parameters, drawings, components, etc. are provided by the applicant. The applicant must provide samples and materials truthfully. Otherwise we will not take on any relevant responsibilities for this report.

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堆码试验报告 Stacking Test Report

报告编号: Report No.:

LA2025B0247001S

样品名称	可充电锂离子电池
Samples	Rechargeable Li-ion Battery
样品型号 Model	YG162040
委托单位	深圳市优格新能源科技有限公司
Applicant	Shenzhen Youge New Energy Technology Co., LTD.
签发日期 Issue Date	2025-02-11 LIONACES LIONACES

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电池描述 Battery Des	scription						
电池名称 Sample name	可充电锂离子电池 Rechargeable Li-ion	Battery	ES				
样品型号 Sample model	YG162040	电池规格 Battery specification 3.7V, 1300mAh, 4.81Wh					
实验室 Laboratory	深圳市莱恩瑞斯科技有限公司 Shenzhen Lionaces Technology Co., Ltd.						
实验地址 Testing address	广东省深圳市宝安区福海街道和平社区永和路骏丰工业区 B6 栋 301 301, Building B6, Junfeng Industrial Zone, Yonghe Road, Heping Community, Fuhai Street, Baoan District, Shenzhen, Guangdong, China						
委托单位 Applicant	深圳市优格新能源科技有限公司 Shenzhen Youge New Energy Technology Co., LTD.						
委托单位地址 Applicant address	4th Floor, Building B,	深圳市龙华区大浪街道陶元社区云峰路 35 号 B 栋厂房 4 层 4th Floor, Building B, No. 35 Yunfeng Road, Taoyuan Community, Dalang Street, Longhua District, Shenzhen					
包装件生产企业 Packaging parts manufacturer	A Comment	深圳市优格新能源科技有限公司 Shenzhen Youge New Energy Technology Co., LTD.					
包装容器生产企业 Packing receptacle manufacturer	A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	东莞市海洋纸品有限公司 Dongguan Haiyang Paper Co., Ltd					
包装件描述 Packagir	ng Description						
外包装 Outer package	瓦楞纸箱 Corrugated carton	内包装 Inner package	吸塑盘 Blister disc				
衬垫材料 Cushion	吸塑盘 Blister disc	包装件尺寸 Dimension	313mm*288mm*240mm				
包装件毛重 Gross weight	10Kg	电池尺寸 Battery dimension	42.0mm*20.1mm*15.8mm				
包装件电池净重 Net weight	9.4Kg	电池数量 Battery number	400Pcs				
收样日期	2025-02-05	完成日期 Completing Date	2025-02-07				
Receiving Date	包装箱内含锂电池。 Package including lithium batteries.						

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2. 参考方法 Reference Method

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3. 测试项目 Test Item

堆码试验 Stacking test

4. 测试方法及标准要求 Test methods and standard requirements

4.1 试验样品数量:每种设计类型和每个制造厂家 3 个试验样品。

Number of test samples: three test samples per design type and manufacturer.

4.2 试验方法:在试验样品的顶部表面施加一力量,此力相当于运输时可能堆叠在它上面的同.样数量包装件的总重量。如果试验样品内装的液体相对密度与待运液体的不同,则该力应按后者计算。包括试验样品在内的最小堆码高度应是 3 米。试验时间为 24 小时,但拟装液体的塑料桶、罐和复合包装 6HH1 和 6HH2,应在不低于 40°C 的温度下经受 28 天的堆码试验。

Test method: the test sample shall be subjected to a force applied to the top surface of the test sample equivalent to the total weight of identical packages which might be stacked on it during transport; where the contents of the test sample are liquids with relative density different from that of the liquid to be transported, the force shall be calculated in relation to the latter. The minimum height of the stack including the test sample shall be 3 meters. The duration of the test shall be 24 hours except that plastics drums, jerricans, and composite packagings 6HH1 and 6HH2 intended for liquids shall be subjected to the stacking test for a period of 28 days at a temperature of not less than 40°C.

4.3 通过试验的标准:试验样品不得泄漏。对复合或组合包装而言,不得有所装的物质从内贮器和内包装中漏出。试验样品不得显出可能对运输安全有不利影响的损坏,或者可能降低其强度或造成包装件堆码不稳定的变形。在进行评估之前,塑料包装应冷却至环境温度。

Criterion for passing the test: no test sample may leak. In composite packagings or combination packagings, there shall be no leakage of the filling substance from the inner receptacle or inner packaging. No test sample may show any deterioration which could adversely affect transport safety or any distortion liable to reduce its strength or cause instability in stacks of packages. Plastics packagings shall be cooled to ambient temperature before the assessment.

5. 测试设备 Test equipment

LA-BT-E109 电池纸箱堆码试验机 Battery carton stacking test machine LA-BT-E112 电池纸箱堆码试验机 Battery carton stacking test machine LA-BT-E113 电池纸箱堆码试验机 Battery carton stacking test machine

6. 实验室环境条件 Test Environment Condition

温度 Ambient temperature: 23±2 (℃)

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相对湿度 Ambient humidity: 50±2(%)

7. 测试结果 Test Data

编号 No.	单个包装高度 Height of individual packages h(M)	单个包装件质量 Quality of individual packages m(Kg)	加载的载荷 Loaded load (N)	试验时间 Testing time (h)	结论 Conclusion
1#	0.24	10	1176.0	24	Pass
2#	0.24	10	1176.0	24	Pass
3#	0.24	10 10	1176.0	24	Pass

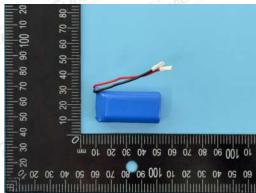
被测试包装件能够承受堆码试验.

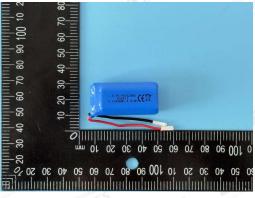
The test package is capable of withstanding a Stacking test in any orientation.

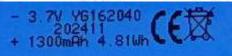
8. 样品图片 Sample Photo











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危险物品 DANGEROUS GOODS

航空运输危险性鉴别报告

Identification and Classification Report for Air Transport of Goods

报告编号:

PEKGZ202502125742YY200001

Issued No.: 生效日期:

2025.02.12

Effective Date:

委托单位:

深圳市优格新能源科技有限公司

Applicant:

Shenzhen Youge New Energy Technology Co., Ltd

物品名称:

可充电锂离子电池 YG162040 3.7V 1300mAh 4.81Wh

Name of Goods:

Rechargeable Li-ion Battery YG162040 3.7V 1300mAh 4.81Wh

北京迪捷姆空运技术开发有限公司

Beijing DGM Air Transport Technology Development Co., Ltd.



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项目编号 Item No.		PEKGZ202502125742	签发日期 Issued Date	2025. 02. 12			
		是否属于航空运输危险物品 Dangerous Goods or not restricted	鉴别日期 Identification Date	2025. 02. 12			
	J依据 ion Criteria	IATA DGR 66th, 2025					
物品名称	中文 Chinese	可充电锂离子电池 YG162040 3.7V 1300	OmAh 4.81Wh	P. L.L.			
Name of Goods 英文 English		Rechargeable Li-ion Battery YG162040 3.7V 1300mAh 4.81Wh					
	广家	深圳市优格新能源科技有限公司	MIL				
Manu	facturer	Shenzhen Youge New Energy Techno	ology Co., Ltd				
	上数	CHINA		运人代理人声明			
Pi	eces		本人(本单位)声明: - 确, 鉴别报告已获得委	上述运输信息填写真实、准 托单位的授权使用,实际运			
	单号 ybill No.		输的货物情况与本鉴别 误、实际运输的货物情况	报告一致。如因信息填写错 况与本鉴别报告不一致造成 本单位)承担全部责任,并			
3/45/67/05	的港		赔偿对承运人造成的全部				
Dest	ination		托运人或托运人代理人	签字: 盖章:			
	品信息 f the goods	该样品为蓝色近长方体电池。型号: YG162040 尺寸: (42.0×20.1×15.8) mm 每包装件中电池/电芯数量: 400 每包装件中电池/电芯净重: 9.4kg 该电池已经做好防短路措施并装入坚固;该锂电池不属于召回电池,不属于废弃造根据委托方所提供的声明: 本报告所述额定容量的30%。 (注: 单块电池的重量约为23.5g。) This sample is blue almost cuboid Model: YG162040 Size: (42.0×20.1×15.8) mm Number of batteries / cells per particle of	和回收电池,并按照DGR3.9.2 锂离子电池(或电芯)交付运 battery. ckage: 400 r package: 9.4kg s to prevent short circuit	输时,其荷电状态不超过设计			
		The lithium batteries don't belong to batteries returned to the manufacturer for safety reasons, are not waste lithium batteries and not lithium batteries being shipped for recycling or disposal, are manufactured under a quality management program as described in 3.9.2.6.1(e). Lithium ion cells and batteries must be offered for transport at a state of charge(SoC) not exceeding 30% of their rated design capacity.					



编号 i No.	PEKGZ202502125742					
中文 Chinese	可充电锂离子电池 YG162040 3.7V 1300mAh 4.81Wh					
英文 English	300mAh 4.81Wh					
		12/		CHIN		
结论 usions	跌落试验,包装件通过3米堆码试验,每个包装件上均存参考有关资料,根据DGR有关规定,该物质分类识别为第This goods is lithium ion/polymer battery, packed battery is of a type proved to meet the Requirem CRITERIA, Part III, sub-section 38.3, Each package any orientation without damage to the cells cont so as to allow cell to cell contact and without withstanding the 3m stack test, Each package is m	百电池标记。 第9类(或项)危险品,UN3480。 individually.Watt-hour rate ents of each test in the UN is capable of withstanding ained therein, without shift release of contents,The pac arked with battery mark.	ing is 4.81Wh. MANUAL OF TES a 1.2m drop t fting of the co	Each TS AND est in ntents e of		
	The state of the s					
UN/ID 编号 UN/ID No.	运输专用名称 Proper Shipping Name	KE/10	类或项 Class or Div. (次要危险性) (Subsidiary Risk)	Packing		
			Class or Div. (次要危险性)			
UN/ID No. UN3480	Proper Shipping Name Lithium ion batteries 客货机 Passenger and Cargo Aircraft		Class or Div. (次要危险性) (Subsidiary Risk)	包装等约 Packing Group		
UN/ID No. UN3480	Proper Shipping Name Lithium ion batteries 客货机 Passenger and Cargo Aircraft		Class or Div. (次要危险性) (Subsidiary Risk)	Packing		
	English 结论	英文 English Rechargeable Li-ion Battery YG162040 3.7V 13 该物品为锂离子/聚合物电池,单独包装。额定瓦特小時跌落试验,包装件通过3米堆码试验,每个包装件上均存参考有关资料,根据DGR有关规定,该物质分类识别为第 This goods is lithium ion/polymer battery,packed battery is of a type proved to meet the Requirem CRITERIA, Part III, sub-section 38.3, Each package any orientation without damage to the cells cont so as to allow cell to cell contact and without withstanding the 3m stack test, Each package is m According to IATA DGR this substance is classifi	英文 English Rechargeable Li-ion Battery YG162040 3.7V 1300mAh 4.81Wh 该物品为锂离子/聚合物电池,单独包装。额定瓦特小时为4.81Wh。已通过 UN38.3 测跌落试验,包装件通过3米堆码试验,每个包装件上均有电池标记。 参考有关资料,根据DGR有关规定,该物质分类识别为第9类(或项)危险品,UN3480。 This goods is lithium ion/polymer battery, packed individually. Watt-hour rat battery is of a type proved to meet the Requirements of each test in the UN CRITERIA, Part III, sub-section 38.3, Each package is capable of withstanding any orientation without damage to the cells contained therein, without shift so as to allow cell to cell contact and without release of contents, The pac withstanding the 3m stack test, Each package is marked with battery mark. According to IATA DGR this substance is classified as dangerous goods Class	英文 English Rechargeable Li-ion Battery YG162040 3.7V 1300mAh 4.81Wh 该物品为锂离子/聚合物电池,单独包装。额定瓦特小时为4.81Wh。已通过 UN38.3 测试,已通过包装 跌落试验,包装件通过3米堆码试验,每个包装件上均有电池标记。 参考有关资料,根据DGR有关规定,该物质分类识别为第9类(或项)危险品,UN3480。 This goods is lithium ion/polymer battery, packed individually. Watt-hour rating is 4.81Wh. battery is of a type proved to meet the Requirements of each test in the UN MANUAL OF TES CRITERIA, Part III, sub-section 38.3, Each package is capable of withstanding a 1.2m drop t any orientation without damage to the cells contained therein, without shifting of the co so as to allow cell to cell contact and without release of contents, The package is capable withstanding the 3m stack test, Each package is marked with battery mark. According to IATA DGR this substance is classified as dangerous goods Class (or division)		

制单: 李彦颖



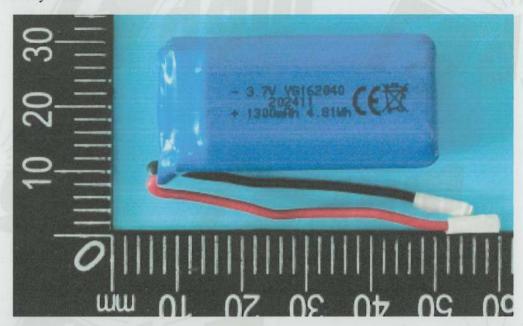
Stamp

北京迪捷姆空运技术开发有限公司

项目编号: PEKGZ202502125742

物品名称: 可充电锂离子电池 YG162040 3.7V 1300mAh 4.81Wh

电池/电芯 Battery / Cell:



包装件 Package:



锂电池/钠离子电池 UN38.3 试验概要 Test Summary

	单	位信息 Comp	any I	nformati	on		
委托单位 Consignor	深圳市优格新能源科技有限公司 Shenzhen Youge New Energy Technology Co., LTD. 深圳市龙华区大浪街道陶元社区云峰路 35 号 B 栋厂房 4 层 4th Floor, Building B, No. 35 Yunfeng Road, Taoyuan Community, Dalang Street, Longhua District, Shenzhen 电话/Tel: 13686445115 邮箱/Mail: 770146010@qq.com						
生产单位 Manufacturer	深圳市优格新能源科技有限公司 Shenzhen Youge New Energy Technology Co., LTD. 深圳市龙华区大浪街道陶元社区云峰路 35 号 B 栋厂房 4 层 4th Floor, Building B, No. 35 Yunfeng Road, Taoyuan Community, Dalang Street, Longhua District, Shenzhen 电话/Tel: 13686445115 邮箱/Mail: 770146010@qq.com						
测试单位 Test Lab	广东省深圳 301, Building Street, Baoa 电话/Tel: 0	瑞斯科技有限公司 市宝安区福海街道 g B6, Junfeng Ind n District, Shenzhe 755-28280690 由 e: www.lionaces.c	道和平剂 ustrial n, Guar 耶箱/Ma	土区永和路駅 Zone, Yong ngdong, Chin	竣丰工业[he Road, a	区 B6 栋 301 Heping Com	
	ļ.	已池信息 Batt	ery Ir	nformatio	n	3	\
名称 Name		锂离子电池 le Li-ion Battery	电池/电芯类别 Battery/Cell Classification		锂离子电池 Li-ion Battery		
型号 Type	YG	162040	商标 Trademark		Table St.		
额定电压 Normal Voltage		3.7V	额定容量 Rated Capacity		1300mAh		
额定能量 Watt-hour rating	4	81Wh	外观 Appearance		蓝色近长方体 Approximate Blue Cuboid		
质量/Mass		23.5g	100	含量/Li Cor		不适用 N/A	
		测试信息 Te	st Inf	ormation			
测试报告编号 Test Report Number LA2024B1616001U			测试报告签发日期 Date of Test Report 2024-11-22				1-11-22
测试标准 Edition of UN Manual of Tests and Criteria Used	The state of the s	验和标准手册》 of Tests and Criter			/Rev.8/Su	bsection 38.3	12/
T.1: 高度模拟 Altitude Simulation	通过 Pass	T.2: 温度试验 Thermal Test		通过 Pass		振动 ration	通过 Pass
T.4: 冲击 Shock	通过 Pass	T.5: 外部短路 External Short Circuit		通过 Pass	T.6: 撞击/挤压		通过 Pass
T.7: 过度充电 Overcharge	通过 Pass	T.8: 强制放电 Forced Discharge		通过 Pass	MAKE		
UN38.3.3.1(f) 或/or UN38.3.3.2(d)	不适用 N/A		UN38.3.3.1(g) 或/or UN38.3.3.2(e)			适用 N/A	
备注 Note			1	1	1/ /2	XX.	14/19
HI X	,	Liu Gui Xion 刘桂雄 Liu GuiXio	- 10	签发日期 sued Date	小堆阁分	2025-02-	12