







地址:中国广州市珠江新城花城大道66号B座

Add: Tower B, No. 66 Huacheng Avenue, Zhujiang Xincheng, Guangzhou, China

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QR COTE: 0E0WT3Q8RH

01051500003939-1 (E)

Date: 2015-08-20 Page: 1 of 13

UN38.3 报告 **UN38.3 Test Report**

样品名称:

锂离子充电电池

Sample Name: Li-ion Rechargeable Battery

委托单位:

惠州隆基电子有限公司

Applicant W TECH LIMITED

检验检疫局检验检疫技术中心

Inspection & Quarantine Technology Center of Guangdong Entry-Exit Inspection & Quarantine Bureau of The People's Republic of China

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检验证书 TEST REPORT

		IESI KE	FORI				
样品名称	中文 Chinese	锂离子充电电池					
Sample Name	英文 English	英文 English Li-ion Rechargeable Battery					
型号 Model	BP 7240 7.2V 30V	Wh					
委托单位 Applicant	惠州隆基电子有 VIEW TECH LIM						
委托单位地址 Applicant Address	惠州市博罗县石 No.2, Libo Shui China		NanYa Bei Lu,Shek	Wan Boluo, Huizhou, Guangdong,			
生产单位 Manufacture	惠州隆基电子有 VIEW TECH LIM						
生产单位地址 Manufacture Address		惠州市博罗县石湾镇南亚北路 No.2, Libo Shui Industrial District,NanYa Bei Lu, Shek Wan Boluo, Huizhou, Guangdon, China					
测试方法和判定标准 Test method and criterion	ST/SG/AC.10/11/ UNITED NATIO	联合国《关于危险货物运输的建议书 试验和标准手册》 ST/SG/AC.10/11/Rev.5,amend 1& amend 2, 38.3 UNITED NATIONS "Recommendations on the TRANSPORT OF DANGEROUS GOODS' Manual of Tests and Criteria ST/SG/AC.10/11/Rev.5,amend 1& amend 2, 38.3					
样品外观 Appearance			额定电容量为 4300 tage is 7.2V, The Rat	mAh。 ed Capacity is 4300mAh.			
接样时间 Accepted date	2015	-07-27	测试日期 Test date	2015-07-27 ~2015-08-20			
测试项目 Test items				童击、过度充电、强制放电。 al short circuit, Impact, Overcharge,			
结论Conclusion	ST/SC/AC/10/1/ The sample I	Rev.5,amend 1& an has passed the test	JS GOODS", M	茂。 ATIONS "Recommendations on the			
备注	检测结果仅对构						
Remark	The test results a		e test samples submit				
批准		宙核		主检			

Approver:

Checker:







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序号 No.	测试项目名称 Name of test	Stand requirement	或标准条款· or the clause andard		测试结果 Test result	本项结论 Test conclusion	备注 Rema rk
1	高空模拟 Altitude simulation	联合国《关于危险货物运输的建议书 试验和标准手册》UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.5, amend 1, 38.3 试验 T.1 Test T.1			见附表 1 See Appendix 1	合格 Passed	1
2	温度循环 Thermal test	联合国《关于危险 验和标准手册》 U Criteria ST/So amend 1, 38.	JN Manual of G/AC.10/11/I	f Tests and Rev.5,	见附表 2 See Appendix 2	合格 Passed	1
3	振动 Vibration	联合国《关于危险 验和标准手册》U Criteria ST/So amend 1, 38.3	JN Manual of G/AC.10/11/I	f Tests and Rev.5,	见附表 3 See Appendix 3	合格 Passed	1
4	冲击 Shock	验和标准手册》U Criteria ST/Se	联合国《关于危险货物运输的建议书 试验和标准手册》UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.5, amend 1, 38.3 试验 T.4Test T.4			合格 Passed	1
5	外部短路 External short circuit	联合国《关于危险货物运输的建议书 试验和标准手册》UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.5, amend 1, 38.3 试验 T.5Test T.5			见附表 5 See Appendix 5	合格 Passed	/
6	撞击 Impact	联合国《关于危险 验和标准手册》 I Criteria ST/So amend 2, 38.3	JN Manual o G/AC.10/11/J	f Tests and Rev.5,	见附表 6 See Appendix 6	合格 Passed	/
7	过度充电 Overcharge	联合国《关于危险 验和标准手册》 I Criteria ST/So amend 1, 38.	JN Manual o G/AC.10/11/J	f Tests and Rev.5,	见附表 7 See Appendix 7	合格 Passed	/
8	强制放电 Forced discharge	联合国《关于危险 验和标准手册》 t Criteria ST/So amend 1, 38.	JN Manual o G/AC.10/11/J	f Tests and Rev.5,	见附表 8 See Appendix 8	合格 Passed	/
Test e	测试环境 nvironment condition	Ambier			环境湿度:45% , Ambient humic		
	and the same	测试项目 Test items			/		
S	分包测试情况 UARAM ubcontracted test condition 200月度	发包实验室 Subcontracted	名称 Name		1	邮编 Post code	1
	S INSPEC	aboratory	地址 Address		1	电话 Tel	/

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序号 No.	附表 1 Appendix 1		项目名称 ne of test	高空模拟 Altitude sim			
标准要求 Requirement of Standard	试验电池或时电池组应无重组在试验后的池组除外)。 Test cells and temperature 2 no venting, no battery after	l池组在压力等 重量损失、无流 为开路电压不少 batteries shall 0 ± 5 °C. Cello disassembly, testing is not	等于或低于 11. 参漏、无排气、 少于其在进行之 be stored at a p s and batteries no rupture and less than 90%	6kPa 和环境温 无解体、无 这一试验前电压 pressure of 11.0 meet this requ I no fire and if of its voltage	温度 20℃±5℃ 破裂和无燃烧, 玉的 90%(完 6 kPa or less fo irement if there the open circu e immediately ls and batteries	并且每个试 全放电状态的 r at least six ho e is no mass los it voltage of ea prior to this p	验电池或电池 试验电池或电 ours at ambient ss, no leakage, ach test cell on procedure. The
样品状态 Sample status	b1#~b4#: fir b5#~b8#: 第	五十个循环完	充电的电池; y charged state 全充电的电池 nding in fully c	. 0			
样品编号	测试前	Before	ore 测试后 After		质量损失	剩余电压	测试结果
Sample No.	电池质量 m _l (g)	开路电压 v _l (v)	电池质量 m ₂ (g)	开路电压 v ₂ (v)	Mass loss (%)	Residual OCV(%)	Test result
b1#	261.4	8.21	261.4	8.21	0.00	100.00	О
b2#	261.1	8.20	261.1	8.19	0.00	99.88	О
b3#	261.4	8.18	261.3	8.18	0.00	100.00	0
b4#	261.1	8.18	261.0	8.17	-0.02	99.88	О
b5#	260.5	8.20	260.4	8.20	0.04	100.00	О
b6#	261.7	8.17	261.6	8.17	0.04	100.00	О
b7#	260.9	8.18	260.9	8.18	0.00	100.00	О
b8#	261.0	8.20	261.0	8.20	0.00	100.00	0

L-泄漏; V-排气; D-解体; R-破裂; F-起火; O-无泄漏、无排气、 无解体、无破裂、无起火。 Note: L-Leakage, W.Vennay/D, Dissembly, R-Rupture, F-Fire, O- No Leakage, No Venting, No Dissembly, No Rupture

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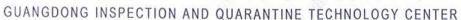
	附表 2	V. V. V. V. I. I. V. V. I. I. V.					
No.	Appendix 2		ne of test	Thermal test			
标准要求 Requirement of Standard	存放至少 6h 间的最大时间放 24h。试验 个试验电池或 态的试验电池 Test cells and followed by s interval betwee after which al For large cells 12 hours. Cell disassembly, testing is not l	(大型电池或明间隔为 30min 中地或电池或电池组在试验电池组在试验电池组除外 batteries are torage for at leasen test temper I test cells and sand batteries and batteries no rupture and less than 90% cells and 90% cells	思度等于 75℃ 电池组暴露于机。重复 10 次, l应无重量损失 合后的开路电压 小)。 o be stored for ast six hours at rature extremes batteries are to the duration of meet this requi no fire and if of its voltage in o test cells and	吸端试验温度的 再将所有试验 无渗漏、无渗漏、无 无渗漏、无 医不少于其在	的时间至少为 金电池或电池线 排气、无解体 进行这一试验自 urs at a test ten ure equal to - 4 . This procedur 4 hours at amb test temperatur e is no mass los uit voltage of ear to this proced	12h)。两个极短 且在环境温度 2 、无破裂和无 打电压的 90% nperature equal 0 ± 2 °C. The re ient temperature e extremes sho ss, no leakage, each test cell coure. The require	端试验温度之 20℃±5℃下有 燃烧,并且每 (完全放电状 I to 75 ± 2 °C maximum times rated 10 times re (20 ± 5 °C.) puld be at leas no venting, no or battery afte
样品状态 Sample status	b1#~b4#: 第 b1#~b4#: fi b5#~b8#: 第	一个循环完全 rst cycle in full 五十个循环完		s;	y utooning ou or		
样品编号 Sample No.	测试前 电池质量	Before 开路电压	测试后 电池质量	After 开路电压	质量损失 Mass loss	剩余电压 Residual	测试结果 Test result
Sample Ivo.	$m_l(g)$	$v_l(v)$	m ₂ (g)	V ₂ (v)	(%)	OCV(%)	rest result
b1#	261.4	8.21	261.4	8.12	0.00	98.90	О
b2#	261.1	8.19	261.1	8.11	0.00	99.02	О
b3#	261.3	8.18	261.4	8.10	-0.04	99.02	О
b4#	261.0	8.17	261.0	8.09	0.00	99.02	0
22 - 22	260.4	8.20	260.5	8.11	-0.04	98.90	О
b5#	A THE RESIDENCE OF THE PARTY OF			0.000.000	7207272	**************************************	2002
b5# b6#	261.6	8.17	261.6	8.09	0.00	99.02	0
	261.6 260.9	8.17	261.6	8.09	0.00	99.02	0

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序号 No.	附表 3 Appendix 3		项目名称 ne of test	振动 Vibration			
标准要求 Requirement of Standard	将电池或电池之间摆动再匠重复进行 12 破裂和无燃烧压的 90%(5 Cells and batterly after	也组直接安装或到 7Hz 的对次,一共振动态,并且每个记完全放电状态。 teries are firml a manner as th a logarithm cycle shall be mounting posal face. Cells are isassembly, not testing is not	或通过夹具安装数扫频 15min 3h。试验电池或电池或电池或电池或电流的试验电池或y secured to the faithfully tric sweep between the cend batteries mediate and rupture and reless than 90%	表在振动台的名,对三个互相 或电池组应无他组在试验后的电池组除外)。 ne platform of transmit the vibreen 7 Hz and times for a totall. One of the det this require no fire and if to of its voltage	台面上,用正好垂直的电池或 垂直的电池或 重量损失、无 的开路电压不 the vibration m oration. The vib 200 Hz and b otal of 3 hours directions of vib ment if there is the open circuit is immediately ls and batteries	电池组安装方。 渗漏、无排气 少于其在进行 tachine without bration shall be tack to 7 Hz to so for each of to pration must be no mass loss, t voltage of ea prior to this p	向的每个方向、无解体、无 这一试验前电 distorting the e a sinusoidal raversed in 15 three mutually perpendicular no leakage, no ch test cell or procedure. The
样品状态 Sample status	b1#~b4#: fi b5#~b8#: 第	五十个循环完	充电的电池; y charged state 全充电的电池 nding in fully c	l.			
样品编号	测试前	Before	测试后	After	质量损失	剩余电压	测试结果
Sample No.	电池质量 m _l (g)	开路电压 v ₁ (v)	电池质量 m ₂ (g)	开路电压 v ₂ (v)	Mass loss (%)	Residual OCV(%)	Test result
b1#	261.4	8.12	261.3	8.12	0.04	100.00	0
b2#	261.1	8.11	261.0	8.11	0.04	100.00	0
b3#	261.4	8.10	261.3	8.10	0.04	100.00	О
b4#	261.0	8.09	260.9	8.09	0.04	100.00	0
b5#	260.5	8.11	260.4	8.11	0.04	100.00	О
b6#	261.6	8.09	261.6	8.09	0.00	100.00	О
b7#	260.8	8.09	260.8	8.09	0.00	100.00	О

必排气;易D。解体、R-破裂; F-起火; O-无泄漏、无排气、 无解体、无破裂、无起火。 Note:L-cealage V-Venting Sembly, R-Rupture, F-Fire, O- No Leakage, No Venting, No Dissembly, No Rupture & No Hire.

> 报告专用章 (05)

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序号	附表 4	测试	项目名称	冲击			
No.	Appendix 4	4 Nai	me of test	Shock			
标准要求 Requirement of Standard	正弦波冲击,脉冲持续时间验电池或电池或电池组不电池或电池组不电池的可能的 Test cells and support all meshock of peal large batteries of 11 millised followed by tof the cell or mass loss, no voltage of each	脉冲持续时间 到 11ms。按三 也组应无重量指 生试验后的开路 目除外)。 I batteries shall ounting surface k acceleration of s shall be subject conds. Each ce hree shocks in battery for a to be leakage, no th test cell or be. The requiren	积紧固在试验线 J 6ms,但对大 个相互垂直的 损失、无渗漏、 路电压不少于与 I be secured to es of each test be of 150gn and pected to a half-sell or battery sl the negative di otal of 18 shoot venting, no dis- attery after test nent relating to	型电池或电池 轴向分别对其 无排气、无 其在进行这一i the testing ma- battery. Each co- sine shock of phall be subject rection of three ks. Cells and be assembly, no ing is not less	组应以最大加法正负极各冲击解体、无破裂或验前电压的 schine by means of 6 millisecont acceleration acceleration of the mutually perpotenteries meet the rupture and not than 90% of its	速度 50gn 的半 3 次,共冲击 和无燃烧,并 90%(完全放 s of a rigid mor all be subjected ds. However, l n of 50gn and ocks in the pos- endicular moun his requiremen fire and if the voltage immed	E正弦波冲击 18次。各词 且每个试验电 电状态的试验 unt which will to a half-sin large cells and pulse duration sitive direction ting position t if there is not be open circuit diately prior to
样品状态 Sample status	b1#~b4#: 第 b1#~b4#: fi b5#~b8#: 第	一个循环完全 rst cycle in full 五十个循环完	充电的电池; y charged state 全充电的电池 nding in fully c	. 0			
样品编号	测试前	Before	测试后	f After	质量损失	剩余电压	测试结果
Sample No.	all Mules III	TT Ub els IT	中沙氏具	开助市厅	Mass loss	Residual	100,000
Jampie 140.	电池质量 m _l (g)	开路电压 v ₁ (v)	电池质量 m ₂ (g)	开路电压 v ₂ (v)	(%)	OCV(%)	Test result
b1#	Committee of the commit	A CANADA CONTRACTOR OF THE PARTY OF THE PART	The state of the s	749000	0.00		Test result O
	m ₁ (g)	v ₁ (v)	m ₂ (g)	v ₂ (v)		OCV(%)	
b1#	m ₁ (g) 261.3	v ₁ (v) 8.12	m ₂ (g) 261.3	V ₂ (v) 8.12	0.00	OCV(%)	О
b1# b2#	m ₁ (g) 261.3 261.0	v ₁ (v) 8.12 8.11	m ₂ (g) 261.3 261.0	v ₂ (v) 8.12 8.11	0.00	OCV(%) 100.00 100.00	0
b1# b2# b3#	m ₁ (g) 261.3 261.0 261.3	V ₁ (v) 8.12 8.11 8.10	m ₂ (g) 261.3 261.0 261.4	v ₂ (v) 8.12 8.11 8.10	0.00	OCV(%) 100.00 100.00	0 0
b1# b2# b3# b4#	m ₁ (g) 261.3 261.0 261.3 260.9	8.12 8.11 8.10 8.09	m ₂ (g) 261.3 261.0 261.4 260.9	v2(v) 8.12 8.11 8.10 8.09	0.00 0.00 -0.04 0.00	OCV(%) 100.00 100.00 100.00	0 0 0
b1# b2# b3# b4# b5#	m ₁ (g) 261.3 261.0 261.3 260.9 260.4	V ₁ (v) 8.12 8.11 8.10 8.09 8.11	m ₂ (g) 261.3 261.0 261.4 260.9 260.4	v ₂ (v) 8.12 8.11 8.10 8.09 8.11	0.00 0.00 -0.04 0.00	OCV(%) 100.00 100.00 100.00 100.00	0 0 0 0

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序号	附表 5	测试项目名称		外部短路		
No.	Appendix 5	Name of test	2	External short circuit		
标准要求 Requirement of Standard	待试验电池或电池组的外壳温度稳定在 55 ℃±2℃后,在 55 ℃±2℃下使电池或电池组经受总夕电阻小于 0.1Ω 的短路条件,当电池或电池组外壳温度回到 55 ℃±2℃后继续至少 $1h$,然后短路断开,再观察电池或电池组 $6h$ 才结束试验。电池或电池组的外壳温度应不超过 170 ℃,并且该验后 $6h$ 内应无解体、无破裂和无燃烧。 The cell or battery to be tested shall be temperature stabilized so that its external case temperature reaches 55 ± 2 °C and then the cell or battery shall be subjected to a short circuit condition with total external resistance of less than 0.1 ohm at 55 ± 2 °C. This short circuit condition is continued for at least one hour after the cell or battery external case temperature has returned to 55 ± 2 °C. The cell or battery must be observed for a further six hours for the test to be concluded. Cells and batterie meet this requirement if their external temperature does not exceed 170 °C and there is no disassembly, no rupture and no fire within six hours of this test.					
样品状态 Sample status	b1#~b4#: first cyc b5#~b8#: 第五十个	盾环完全充电的电池; le in fully charged states; 个循环完全充电的电池。 cycles ending in fully charg	ed state	·s.		
样品编号 Sample No.		長面最高温度 al Temperature(℃)		测试结果 Test result	备注 Remark	
b1#		54.5		О	/	
b2#		54.6		0	1	
b3#		55.3		0	1	
b4#		56.0		0	1	
b5#	SIN QUARANTA	55.8		О	1	
b6#	美国发展	54.9		О	/	
b7#	NO COG	55.5		0	/	
b8#	报告专用章	56.2		0	/	

注: D-解体; R-破裂; F-起火; O-无解体、无破裂、无起火。 Note: D-Dissembly, R-Rupture, F-Fire, O-No Dissembly, No Rupture & No Fire.

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序号	附表 6	测试项目名称	撞击	
No.	Appendix 6	Name of test	Impact	
标准要求 Requirement of Standard	试样电池或元件电池直径(15.8±0.1)毫 ±0.1)千克的重锤的、对落体重锤阻力表面支撑表面呈 90,接受撞击的试样,约的纵轴垂直,每个词试验电池或电池组的无解体、无破裂、无Impact(applicable to Test procedure – Impacell or component cell for the linterse vertical sliding track cused to guide the falling the test sample is to be perpendicular to the little centre of the test sample cells and componer	米,长度至少 6 厘米,或从 (61±2.5) 厘米高处设 人 (61±2.5) 厘米高处设 最小的垂直轨道或管道 为 度落下。 从轴应于平坦表面平行并 对 经	一根 316 型不锈钢棒横放在 电池最长端的尺度,取二者之 快落到钢棒和试样交叉处。使加以控制,垂直轨道或管道用 与横放在试中心的直径(15.8 过 170℃,并且在试验过程中	大者,用一块(9.1 用一个几乎没有摩擦于引导落锤沿与水平 生0.1)毫米弯曲表面 和试验后 6 小时内应 iameter) The sample mm diameter, at least stainless steel bar is to ed from a height of 61 a near frictionless, ical track or channel upporting surface. rface and surface lying across pact. iture does not exceed
样品状态	C1#~C5#: 第一个循	环 50%的额定容量的电流	艺 。	
Sample status		at 50% of the design rated		
样品编号 Sample No.		面最高温度 l Temperature(℃)	测试结果 Test result	备注 Remark
C1#		112.5	О	/
C2#	OUARANZA	113.4	0	1
C3#	建筑地域	111.6	О	1
C4# S	大田本 大田本	20.1	0	1
C5#	报告专用章	115.8	0	1
主: D-解体; Note: D-Dissen	R破裂; F起火; nbly, R-Rupture, F-Fir	O-无解体、无破裂、无 e, O-No Dissembly, No I		

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序号	附表 7	测试项目名称	过度充电		
No.	Appendix 7	Name of test	Overcharge		
标准要求 Requirement of Standard	(a) 制造商建议的 倍或 22V 两者中的的 (b) 制造商建议的 可再充电电池组石 The charge current sl current. The minimum (a) When the manufat voltage of the test sha 22V. (b) When the manufat of the test shall be 1.2 Tests are to be con Rechargeable batteri	充电电压不大于 18V 时,试验较少者。 充电电压大于 18V 时,试验的 在环境温度下试验 24h。试样在 nall be twice the manufacturer's re m voltage of the test shall be as for cuturer's recommended charge vol all be the lesser of two times the re acturer's recommended charge vol 2 times the maximum charge volt ducted at ambient temperature.	tage is not more than 18V, the minimum naximum charge voltage of the battery or tage is more than 18V, the minimum voltage		
样品状态 Sample status	days of the test. b9#~b12#: 第一个循环完全充电的电池; b9#~b12#: first cycle in fully charged states; b13#~b16#: 第五十个循环完全充电的电池。 b13#~b16#: after 50 cycles ending in fully charged states.				
样品编号 Sample No.		测试结果 Test result	备注 Remark		
b9#		0	1		
b10#		О	1		
b11#		О	7		
b12#		О	1		
b13#	NO QUARANTI	O	/		
b14#	多	0	/		
b15#	THE WASHINGTON	0	/		
b16#	报告专用章 〇 /				

Note: D-Dissembly, R-Rupture, F-Fire, O-No Dissembly, No Rupture & No Fire.

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序号 No.	附表 8 Appendix 8		頁名称 e of test	强制放电 Forced discharge			
标准要求 Requirement of Standard	Appendix 8 Name of test Forced discharge 试验原电池或可再充电电池在环境温度下与 12V 的直流电源串联,在起始电流等于制造商定的最大放电电流的条件下强制放电。原电池或可再充电电池在试验后 7 天内应无解体和燃烧。 Each cell shall be forced discharged at ambient temperature by connecting it in series with a 12 D.C. power supply at an initial current equal to the maximum discharge current specified by manufacturer. The specified discharge current is to be obtained by connecting a resistive load of appropriate size and rating in series with the test cell. Each cell shall be forced discharged for a ti interval (in hours) equal to its rated capacity divided by the initial test current (in Ampere). Prim or rechargeable cells meet this requirement if there is no disassembly and no fire within seven d of the test.						
样品状态 Sample status	C6#~C15#: 第一个 C6#~C15#: first cy C16#~C25#: 第五一 C16#~C25#: after 50	rcle in fully discha 十个循环完全放电	rged states; L的电芯。				
样品编号 Sample No.	测试结果 Test result	备注 Remark	样品编号 Sample No.	测试结果 Test result	备注 Remark		
C6#	О	1	C16#	О	1		
C7#	0	1	C17#	0	1		
C8#	0	1	C18#	О	1		
C9#	0	/	C19#	О	1		
C10#	0	/	C20#	О	/		
C11#	0	/	C21#	О	1		
C12#	O AND QU	ARANTAL	C22#	0	1		
C13#	O THE PERSON		C23#	О	/		
C14#	SWS THE	1000 NOTO	C24#	О	/		
C15#	报告。	用草(5)	C25#	О	/		

注: D-解体; R-破裂; F-起火; O-无解体、无破裂、无起火。

Note: D-Dissembly, R-Rupture, F-Fire, O-No Dissembly, No Rupture & No Fire.

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样品图片 Photo of the sample



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注意事项

Important

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3.本报告无批准人、审核人及主检人签名无效。

The test report is invalid without the signatures of Approver, Checker and Appraiser.

4.客户必须如实提供样品及资料,并保证申报品名和样品以及运输货物相同,否则本检测单位 不承担任何相关责任。

The client should provide samples and relevant data, at the same time, they should guarantee the consistence of the product's name they declared, the samples they provided and the goods to be transported. Otherwise we will not bear any relevant responsibilities.

5.本报告涂改无效。

The test report is invalid if altered.

6.对检验报告若有异议,应于收到报告之日起十五天内向检验单位提出。

Objection to the test report must be submitted to IQTC within 15 days.

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货物运输条件鉴定书

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锂电池一符合包装说明 965 第 IB 部分

样品名称:

锂离子充电电池

Sample Name: Li-ion Rechargeable Battery

送检单位:

惠州隆基电子有限公司

VIEW TECH LIMITED

检验检波局检验检疫技术中心

Inspection & Quarantine Technology Center of Guangdong Entry-Exit Inspection & Quarantine Bureau of The People's Republic of China



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		Corti	ilcation	I IUI Bai	le Transpo	I t UI C	loous	
货物名称		中文 hinese	锂离子充电电池				\$	
Goods nam		英文 nglish	i-ion Rech	argeable Ba	ttery			l.
]	型号 Model		BF	7240 7.2V	30Wh	电芯型 Cell Mo		UR18650A
A	托单位 pplicant			子有限公司 H LIMITED				
	产单位 nufacture			已子有限公司 H LIMITED				
Inspection	方法、程 on methoo ocedures	land			立险品规则》(第 Regulation(56 th			×
	品外观 Appeara		灰色塑胶及塑料薄膜外壳 Grey plastic and plastic film shell				S.	
包装件(Package info	(\$15.65 (TTT)).	电池数量 Quantity	30 1	重量 Weight	8.95Kg	尺寸 Size	405mm*2	35mm*195mm
电池 信息	序号	类: Tyj				W	侍-小时额定值 att-hour rating 含量 Li content	放置方式 Placement
Battery information	1	锂离子充 Li-ion Rec Batt	hargeable	pargeable BP 7240 7.2V 30Wh 30Wh			只有电池 Battery only	
鉴定结 IDENTIFIC CONCL	ATION	2. 按照 该物品 The gu Instruc 3. 包装 根据包 The go	国际航空运 d满足包装 oods meet ction 965 要求(Packa 见装说明 90 oods are pa Aircraft.	E输协会《允 说明 965 基 the require aging require 65-IB 部分列	本要求和第 IB ments in Gener ments): b理,客、货机	理类项(Su 部分的规 al Require 均可。	nggestion accord 定。 ements and sect	ing to IATA DGR) ion IB of Packaging ion IB, Passenger and

禹日期(Inspection date): 2015-07-27~ 2015-08-20

月月期(Valid date): 2015-08-20

6个包装件除应贴有9类危险性标签外,还应贴有锂电池操作标签。

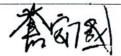
Each package should labelled with a lithium battery label in addition to hazard label.

批准

Approver: 3 4 h

审核

Checker



土位

Appraiser:



淫



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序号	检查结果及其他事项
No.	Inspection results and other things
1	客户声明 Consignor announcement: 本报告所述锂电池无明显安全缺陷,不属于因安全原因召回的锂电池; Lithium cells and batteries listed in this report have no significant defect, and the are not the defective cells or batteries returned to the manufacturer for safety reasons 本报告所述锂电池不进行以回收或处置为目的的航空运输,不属于废弃锂电池; Lithium cells and batteries listed in this report are not waste lithium cells or batteries and they will not be shipped for recycling or disposal from air transport. 本报告所述锂电池按照《危险品规则》3.9.2.6e)规定的质量管理体系进行制造。 Lithium cells and batteries listed in this report were manufactured under the qualit management programme as described in DGR 3.9.2.6e).
2	本报告所述锂电池已通过联合国《试验和标准手册》第 III 部分 38.3 小节相应测试要求(证书组号: 01051500003939(E)-1)。 Lithium cells and batteries listed in this report are of the types proven to meet the requirements of each applicable test in the UN Manual of Tests and Criteria, Part III sub-section 38.3 (Test Report No.: 01051500003939(E)-1). 包装件能够承受 1.2m 跌落试验,包装件的毛重不超过 10kg(证书编号: 01051500003939(E)-2)。 The package has passed the 1.2m drop test, Packages of a gross weight not exceeding 10k (Test Report No.: 01051500003939(E)-2).
3	锂电池完全封装在内包装内,位于坚固的外包装中。 Lithium cells and batteries are packed in inner packagings that completely enclose th cell or battery and placed in astrong outer packaging
4	电池具有适当的防短路措施。 Cells and batteries are properly protected to prevent short circuits.
5	每批托运货物必须附带一份包括一下内容的文件: ——根据情况,标明包件内装有锂离子电池组; ——标明包件必须小心轻放,如果包件损坏,有着火的危险; ——标明如包件受到损坏,应当遵守的特别程序,包括检查,如有必要,重新包装; ——了解其他情况的电话号码。 Each consignment must be accompanied with a document with an indication that:The package contains lithium ion batteries The package must be handled with care and that a flammability hazard exists if the package is damagedSpecial procedures must be followed in the event the package is damaged, to include inspection and repacking if necessary
备注 Remark	一一人 tell propose number for additional information. 造出了空运。 Decapplicable to ransport by air.
a divide	报告专用章

1. 我们已尽所知所能实施上递检验, 不能财益及本报告而免除有关各方根据合同和法律所承担的责任和义务。All inspections are carried out conscientiously to the best of our knowledge and ability. This report does not in any respect absolve the other related parties from his contractual and legal obligations.

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No: 01051500003939-3 (E)

Date: 2015-08-20 Page: 5 of 5

注意事项

Important

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3.本报告无批准人、审核人及主检人签名无效。

The test report is invalid without the signatures of Approver, Checker and Appraiser.

4.客户必须如实提供样品及资料,并保证申报品名和样品以及运输货物相同,否则本检测单位 不承担任何相关责任。

The client should provide samples and relevant data, at the same time, they should guarantee the consistence of the product's name they declared, the samples they provided and the goods to be transported. Otherwise we will not bear any relevant responsibilities.

5.本报告涂改无效。

The test report is invalid if altered.

6.对检验报告若有异议,应于收到报告之日起十五天内向检验单位提出。

Objection to the test report must be submitted to IQTC within 15 days.

7.本报告仅对送检样品负责。

The test report is valid for the tested samples only.





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QR COTE: 0E0WT3Q8RH

01051500003939-4(E)

Date: 2015-08-20 Page: 1 of 6

货物运输条件鉴定书

Certification for Safe Transport of Goods

锂电池一符合 IMDG 特殊规定 188 条

样品名称:

锂离子充电电池

Sample Name: Li-ion Rechargeable Battery

送检单位:

惠州隆基电子有限公司

VIEW TECH LIMITED

广东北入境检验检疫局检验检疫技术中心

Inspection & Quarantine Technology Center of Guangdong Entry-Exit Inspection & Quarantine Bureau of The People's Republic of China

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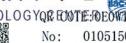
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Date: 2015-08-20

Page: 2 of 6

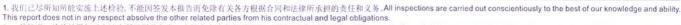


Certification for Safe Transport of Goods

		runcat	1011 1101	sale Hansp	1011	or Goods			
	中文 Chinese	锂离子充电电池							
	英文 English	Li-ion Rechargeable Battery							
型号 Model		BP 7240 7.2V 30Wh				电芯型号 Cell Model UR18650A			
委托单位 Applicant			惠州隆基电子有限公司 VIEW TECH LIMITED						
生产单位 Manufacturer			惠州隆基电子有限公司 VIEW TECH LIMITED						
检查方法、程序 Inspection method and procedure		《国际海运危险货物规则》(36-12 版 IMO IMDG code) IMO IMDG CODE (36-12 Edition)							
样品外观 Sample Appearance			灰色塑胶及塑料薄膜外壳 Grey plastic and plastic film shell						
그		411	重量 Weight	8.95Kg	尺寸 Size	405mm(L)*2	405mm(L)*235mm(W)*195mm		
亨号	100		型号 Model			瓦特-小时额定值 Watt-hour rating /锂含量 Li content			
1	L Rech	i-ion argeable	BP 7240 7.2V 30Wh		30Wh		只有 Battery		
ON THE STATE OF TH	2. 按照 包括	照联合国《月安普通货物》 接要求(Pack FMDG 特)	国际海运危 条件办理。 aging requir 殊规定 188 ction date):	险货物规则》办理 According to the c ements): 条办理。 2015-07-27~ 2	理类项: conditio	ons of general ca)	
	Fedel 单位 cant 单位 cturer the cturer the choose of the control of the cturer t	中文 Chinese 英文 English 号 lel 单位 cant 单位 cturer 表 程序 nethod and dure 小观 pearance 包 ation Quantit 字号 1 Rech Ba 1. 危险 2. 按时 1	中文 Chinese 要文 English Li-ion Rech 是	中文 Chinese 要文 English	中文 Chinese 要文 English Li-ion Rechargeable Battery BP 7240 7.2V 30Wh December 2	中文 Chinese 要文 English Li-ion Rechargeable Battery BP 7240 7.2V 30Wh Ce delel BP 7240 7.2V 30Wh Ce delel BM BE BATTER BM BP 7240 7.2V 30Wh Ce delelelelelelelelelelelelelelelelelele	Chinese 英文 English Li-ion Rechargeable Battery BP 7240 7.2V 30Wh 电芯型号 Cell Model P 位 惠州隆基电子有限公司 VIEW TECH LIMITED 单位 惠州隆基电子有限公司 VIEW TECH LIMITED 基本 是	中文 Chinese 理离子充电电池 英文 English Li-ion Rechargeable Battery BP 7240 7.2V 30Wh 电芯型号 UR18650A P 位 惠州隆基电子有限公司 VIEW TECH LIMITED P 位 表州隆基电子有限公司 VIEW TECH LIMITED P 位 表列隆基电子有限公司 VIEW TECH LIMITED P 位 表列隆基位 (国际海运危险货物规则) (36-12 版 IMO IMDG code) IMO IMDG CODE (36-12 Edition) P 交 型 数导	

批准 Approver: Checker:







Website:www.iqtc.cn

广东出入境检验检疫局检验检疫技术中心 GUANGDONG INSPECTION AND QUARANTINE TECHNOLOGYOR ENTER REOWT3Q8RE

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01051500003939-4(E)

Date: 2015-08-20 Page: 3 of 6

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Date: 2015-08-20

Page: 4 of 6

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序号	Certification for Safe Transport of Goods 检查结果及其他事项
No.	加旦妇术及兵他争攻 Inspection results and other things
1	本报告所述锂电池已通过联合国《试验和标准手册》第 III 部分 38.3 小节相应测试要求(证书编号: 01051500003939(E)-1)。 Lithium cells and batteries listed in this report are of the types proven to meet the requirements of each applicable test in the UN Manual of Tests and Criteria, Part III, sub-section 38.3 (Test Report No.: 01051500003939(E)-1). 包装件能够承受 1.2m 跌落试验,包装件的毛重不超过 30kg(证书编号: 01051500003939(E)-2)。 The package has passed the 1.2m drop test, Packages of a gross weight not exceeding 30kg (Test Report No.: 01051500003939(E)-2).
2	电池和电池组,除安装在设备上的之外,应使用内容器包装,将电池和电池组完全包裹。应保护电池和电池组防止发生短路。 Cells and batteries, except when installed in equipment, shall be packed in inner packagings that completely enclose the cell or battery. Cells and batteries shall be protected so as to prevent short circuits.
3	安装在设备上的电池和电池组,应防止受到损害和发生短路,设备应配备防止发生意外启动的有效装置。当锂电池组安装在设备上时,设备应使用坚实的外容器包装,容器的制造应采用足够强度的适当材料,设计也与容器的容量和用途相符,除非安装电池组的设备对之已有相当的保护;Cells and batteries when installed in equipment shall be protected from damage and short circuit, and the equipment shall be equipped with an effective means of preventing accidental activation. When lithium batteries are installed in equipment, the equipment shall be packed in strong outer packagings constructed of suitable material of adequate strength and design in relation to the packaging's capacity and its intended use unless the battery is afforded equivalent protection by the equipment in which it is contained;
4	除非包件内设备安装的电池不超过四个,或设备安装的电池组不超过两个,每个包件均应作出以下标记: (一) 根据情况,标明包件内装有锂离子电池组; (二) 标明包件必须小心轻放,如果包件损坏,有着火的危险; (三) 标明如包件受到损坏,应当遵守的特别程序,包括检查,如有必要,须重包装; (四) 了解其他情况的电话号码; Except for packages containing no more than four cells installed in equipment or no mor than two batteries installed in equipment, each package shall be marked with the following (i) an indication that the package contains lithium ion batteries, as appropriate; (ii) an indication that the package shall be handled with care and that a flammability hazard exists if the package is damaged; (iii) an indication that special procedures shall be followed in the event the package i damaged; to just the inspection and repacking if necessary; and (iv) a telephone number for the information;

文字文字, 文字文字, Telated parties from his contractual and legal obligations. This report does not in any respe

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01051500003939-4 (E)

Date: 2015-08-20 Page: 5 of 6

每批交运的货物,包含一个或多个按(f)段标记的包件,应附带一份包括以下内容的单据: (一) 根据情况, 标明包件内装有锂离子电池组; (二) 标明包件必须小心轻放,如果包件损坏,有着火的危险; (三) 标明如包件受到损坏,应当遵守的特别程序,包括检查,如有必要,重新包装; (四) 了解其他情况的电话号码。 Each consignment of one or more packages marked in accordance with paragraph (f) shall be accompanied with a document including the following: (i) an indication that the package contains lithium ion batteries, as appropriate; (ii) an indication that the package shall be handled with care and that a flammability hazard exists if the package is damaged; (iii) an indication that special procedures shall be followed in the event the package is damaged, to include inspection and repacking if necessary; and (iv) A telephone number for additional information.

备注

5

适用于海运。

Be applicable to transport by sea Remark



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No: 01051500003939-4 (E)

Date: 2015-08-20 Page: 6 of 6

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4.客户必须如实提供样品及资料,并保证申报品名和样品以及运输货物相同,否则本检测单位 不承担任何相关责任。

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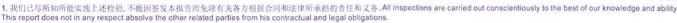
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7.本报告仅对送检样品负责。

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QR COTE: 0E0WT3Q8RH

01051500003939-2(E)

Date: 2015-08-20 Page: 1 of 4

1.2 米跌落测试报告 1.2m Drop Test Report

样品名称: 锂离子充电电池

Sample Name: Li-ion Rechargeable Battery

委托单位: 惠州隆基电子有限公司

IEW TECH LIMITED

党检验检疫局检验检疫技术中心

Inspection & Quarantine Technology Center of Guangdong Entry-Exit Inspection

& Quarantine Bureau of The People's Republic of China

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一般情况,检验结果仅对申请人所送样品负责。未经本实验室书面同意,不得部分复制本报告。 The results shown in this test report refer only to the sample(s) tested unless otherwise stated. Without the prior written approval from the issuing laboratory, the report shall not be reproduced except in full.











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Date: 2015-08-20 Page: 2 of 4

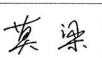
中文 Chinese	锂离子充电电池					
英文 English	Li-ion Rechargeable Battery					
BP 7240 7.2V 30Wh						
惠州隆基电子有限公司 VIEW TECH LIMITED						
惠州市博罗县石湾镇南亚北路 No.2, Libo Shui Industrial District,NanYa Bei Lu,Shek Wan Boluo, Huizhou, Guangdong, China						
惠州隆基电子有限公司						
惠州市博罗县石湾镇南亚北路 No.2, Libo Shui Industrial District,NanYa Bei Lu,Shek Wan Boluo, Huizhou, Guangdong, China						
联合国《关于危险货物运输的建议书 规章范本》(第 18 修订版) 特殊规定 188 条 UNITED NATIONS Recommendations on the TRANSPORT OF DANGEROUS GOODS Model Regulations(Rev. 18)special provisions188						
该样品为固体,标称电压为 7.2V,额定电容量为 4300mAh。 The battery is solid. The Nominal Voltage is 7.2V, The Rated Capacity is 4300mAh.						
长方形瓦楞纸箱(405mm*235mm*195mm), 内装 30 颗锂电池 Rectangle corrugated carton(405mm*235mm*195mm), containing 300lithium ion batteries.						
2015	i-07-27	测试日期 Test date	2015-07-27 ~2015-08-20			
1.2m 跌落试验,包装件毛重测试。1.2m Drop test、Gross Weight Measure						
装电池的直接接 The tested p damage to cells of battery to battery	触的移动及内容物 ackage is capable of or batteries containe or cell to cell con	泄露,该包装件总重 withstanding a 1.2m d therrin, without shi	重量为 8.95Kg(毛重)。 drop test in any orientation withou ifting of the contents so as to allow			
	英文 English BP 7240 7.2V 30 ³ 惠州隆基电子有VIEW TECH LIN 惠州市博罗县石No.2, Libo Shui China 惠州隆基电子有VIEW TECH LIN 惠州市博罗县石No.2, Libo Shui China 联合国《关于危UNITED NATIO Model Regulation 该样品为固体,The battery is soli 长方形瓦楞纸箱 Rectangle corrugation 2015 1.2m 跌落被测试包装 电池的直接接 The tested pubmage to cells contery to battery	英文 English Li-ion Rechargeabl BP 7240 7.2V 30Wh 惠州隆基电子有限公司 VIEW TECH LIMITED 惠州市博罗县石湾镇南亚北路 No.2, Libo Shui Industrial District, China 惠州隆基电子有限公司 VIEW TECH LIMITED 惠州市博罗县石湾镇南亚北路 No.2, Libo Shui Industrial District, China 联合国《关于危险货物运输的建议 UNITED NATIONS Recommendation Model Regulations(Rev. 18) special pr 该样品为固体,标称电压为 7.2V,The battery is solid. The Nominal Vol 长方形瓦楞纸箱(405mm*235mm*15 Rectangle corrugated carton(405mm*2015-07-27 1.2m 跌落试验,包装件毛重被测试包装件能够承受 1.2 米装电池的直接接触的移动及内容物 The tested package is capable of the page to cells or batteries containe	英文 English Li-ion Rechargeable Battery BP 7240 7.2V 30Wh 惠州隆基电子有限公司 VIEW TECH LIMITED 惠州市博罗县石湾镇南亚北路 No.2, Libo Shui Industrial District,NanYa Bei Lu,Shek China 惠州隆基电子有限公司 VIEW TECH LIMITED 惠州市博罗县石湾镇南亚北路 No.2, Libo Shui Industrial District,NanYa Bei Lu,Shek China 惠州隆基电子有限公司 VIEW TECH LIMITED 惠州市博罗县石湾镇南亚北路 No.2, Libo Shui Industrial District,NanYa Bei Lu,Shek China 联合国《关于危险货物运输的建议书 规章范本》(第 1 UNITED NATIONS Recommendations on the TRANSPOMMODIATION RECOMMENDATION RECOMME			

审核

Checker:

内包装: 瓦楞纸格栅。Inner package: corrugated paper

Appraiser:



^{1.} 我们已尽所知所能实施上述检验, 不能因签发本报告而免除有关各方根据合同和法律所承担的责任和义务。All inspections are carried out conscientiously to the best of our knowledge and ability. This report does not in any respect absolve the other related parties from his contractual and legal obligations.
2. 一般情况,检验结果仅对申请人所送样品负责。未经本实验室书面同意,不得部分复制本报告。 The results shown in this test report refer only to the sample(s) tested unless otherwise stated. Without the prior written approval from the issuing laboratory,the report shall not be reproduced except in full.



TC 广东出入境检验检疫局检验检疫技术中心

GUANGDONG INSPECTION AND QUARANTINE TECHNOLOGY CENTER







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QR COTE: 0E0WT3Q8RH

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序号 No.	检验项目名称 Name of test	标准要求或标准条款号 Standard requirement or the clause of standard	uirement or the		本项结论 Test conclusion	备注 Remark
1	1.2 米跌落试验 1.2m Drop test	联合国《关于危险货物运输的 建议书 规章范本》(第 18 修订 版) 特殊规定 188 条 UNITED NATIONS Recommendations on the	面跌落 (顶部、底部、 长侧面、短侧面 Surface Drop (Top, Bottom, Long side, Short side)	not cracked, the contents are not	合格 Passed	/
		TRANSPORT OF DANGEROUS GOODS Model Regulations(Rev. 18)special provisions188	角跌落 Corner Drop	包装未破损,内装物完好。 The package is not cracked, the contents are not damaged and not shifted.	合格 Passed	
2	包装件毛重测试 Gross Weight Measure	联合国《关于危险货物运输的建议书 规章范本》(第 18 修订版) 特殊规定 188 条 UNITED NATIONS Recommendations on the TRANSPORT OF DANGEROUS GOODS Model Regulations(Rev. 18)special provisions188	8.95Kg		合格 Passed	/
	检验环境条件 est environment condition	环境温度 Ambient temperatur	ᡛ: 20°C-23°C; ∃ e: 20°C-23°C;	The State of the Control of the Cont		
	AUL	检验项目 Test items		1		
分包检验情觀 QUAR Subcontracted tests condition		分包实验室	名称 Name /		邮编 Post code	1
		Subcontracted Laboratory	地址 Address		电话 Tel	/

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包装件/Package







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