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01052000001350-2(E) No:

2020-04-30 Date:

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### UN38.3 报告 **UN38.3 Test Report**

样品名称: 储能单元

**Sample Name: Power Lite** 

委托单位: 深圳昱泽新能源有限公司

Shenzhen UZ Energy limited Applicant:



1U7H6MAD5V



<sup>1.</sup> 本报告结果仅对测试样品负责。The results in this report are relevant only to the sample(s) tested. 2. 未经签发机构书面同意,不得部分引述或复制本报告。Without written permission of IQTC, this report shall not be quoted or reproduced except in full.







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### 检测证书 **TEST REPORT**

	1 0111		
储能单元 Power Lite	ANGLHO	G <sub>D</sub> <sub>V</sub>	Æ.
L051100-A		it of	CELTY CHINOLO
深圳昱泽新能源有限公司 Shenzhen UZ Energy limited	Nogy	TECHNO!	a TRICT TO
ROOM313, 3F 3BLOCK, DUOLI	INDUSTRIAL ZOI	NE, 105#MEIHU	
深圳昱泽新能源有限公司 Shenzhen UZ Energy limited	CUSTON	.GZHOU CT	CANACA
ROOM313, 3F 3BLOCK, DUOLI	INDUSTRIAL ZOI	NE, 105#MEIHU	
黑色金属外壳	.2	, cft.	.01.0
Black metal shell	, Sto	6	CHI
38.3 UNITED NATIONS " Recommen	dations on the TRA	NSPORT OF DA	
2020-03-26	测试日期 Test date	2020-03-	-26~2020-04-30
经测试,该样品符合联合国	《关于危险货物主	运输的建议书	试验和标准手册》
The sample has passed the test TRANSPORT OF DANGER	items of UNITED OUS GOODS",	NATIONS Rec Manual of	
2.随附 UN38.3 试验概要(编号:		3(E) ) <sub>o</sub>	位侧专用草 (05)
	储能单元 Power Lite  L051100-A  深圳昱泽新能源有限公司 Shenzhen UZ Energy limited 深圳市福田区梅林街道梅丰社区 ROOM313, 3F 3BLOCK, DUOLI RD.,SHANGMEILIN, FUTIAN D 深圳昱泽新能源有限公司 Shenzhen UZ Energy limited 深圳市福田区梅林街道梅丰社区 ROOM313, 3F 3BLOCK, DUOLI RD.,SHANGMEILIN, FUTIAN D 黑色金属外壳 Black metal shell  联合国《关于危险货物运输的建 38.3  UNITED NATIONS "Recommen Manual of Tests and Criteria ST/So  2020-03-26  高度模拟、温度试验、振动 Altitude simulation, Thermal test, Forced discharge.  经测试,该样品符合联合国 ST/SG/AC.10/11/Rev.6/Amend.1, The sample has passed the test TRANSPORT OF DANGER ST/SG/AC.10/11/Rev.6/Amend.1, 1.检测结果仅对样品有效; The test results are only valid for	Power Lite  L051100-A  深圳昱泽新能源有限公司 Shenzhen UZ Energy limited 深圳市福田区梅林街道梅丰社区梅华路 105 号多丽ROOM313, 3F 3BLOCK, DUOLI INDUSTRIAL ZOIRD, SHANGMEILIN, FUTIAN DISTRICT, SHENZI深圳昱泽新能源有限公司 Shenzhen UZ Energy limited 深圳市福田区梅林街道梅丰社区梅华路 105 号多丽ROOM313, 3F 3BLOCK, DUOLI INDUSTRIAL ZOIRD, SHANGMEILIN, FUTIAN DISTRICT, SHENZI黑色金属外壳Black metal shell  联合国《关于危险货物运输的建议书 试验和标准:38.3  UNITED NATIONS "Recommendations on the TRA Manual of Tests and Criteria ST/SG/AC.10/11/Rev.6/A  2020-03-26  测试日期 Test date  高度模拟、温度试验、振动、冲击、外部短路Altitude simulation, Thermal test, Vibration, Shock, E Forced discharge.  经测试,该样品符合联合国《关于危险货物立 ST/SG/AC.10/11/Rev.6/Amend.1, 38.3 标准要求。The sample has passed the test items of UNITED TRANSPORT OF DANGEROUS GOODS", ST/SG/AC.10/11/Rev.6/Amend.1, 38.3.  1.检测结果仅对样品有效; The test results are only valid for the test samples so	情能単元 Power Lite  L051100-A  深圳昱泽新能源有限公司 Shenzhen UZ Energy limited 深圳市福田区梅林街道梅丰社区梅华路 105 号多丽工业区 2-3 栋 3 ROOM313, 3F 3BLOCK, DUOLI INDUSTRIAL ZONE, 105#MEIHU. RD,SHANGMEILIN, FUTIAN DISTRICT, SHENZHEN 深圳昱泽新能源有限公司 Shenzhen UZ Energy limited 深圳市福田区梅林街道梅丰社区梅华路 105 号多丽工业区 2-3 栋 3 ROOM313, 3F 3BLOCK, DUOLI INDUSTRIAL ZONE, 105#MEIHU. RD,SHANGMEILIN, FUTIAN DISTRICT, SHENZHEN 黑色金屬外壳 Black metal shell 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 38.3 UNITED NATIONS "Recommendations on the TRANSPORT OF DA Manual of Tests and Criteria ST/SG/AC.10/11/Rev.6/Amend.1, 38.3  2020-03-26  『演模拟、温度试验、振动、冲击、外部短路、挤压、过度充Altitude simulation, Thermal test, Vibration, Shock, External short circuforced discharge.  经测试,该样品符合联合国《关于危险货物运输的建议书 ST/SG/AC.10/11/Rev.6/Amend.1, 38.3 标准要求。 The sample has passed the test items of UNITED NATIONS RecTRANSPORT OF DANGEROUS GOODS", Manual of ST/SG/AC.10/11/Rev.6/Amend.1, 38.3.

Approver: 初於別

<sup>审核</sup> Checker: **巧和或** 

Appraiser:

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地班:中国)和中本内区等的经验。 网址:www.iqtc.cn 邮编: 510623 Add: Tower B, No.66 Huacheng Avenue, Zhujiang Xincheng, Tianhe District, Guangzhou, China Website: www.iqtc.cn Postcode: 510623

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### 电池组信息:

### The batteries information:

7.5	CA TO	21%	TAP
电池类型 Battery type	锂离子电池 Lithium ion batteries	标称电压 Nominal Voltage	51.2V
额定容量 Rated Capacity	100Ah	总能量 Total Energy	5120Wh
充电限制电压 Limited Charge Voltage	57.6V	标准充电电流 Standard Charge Current	50A
最大充电电流 Maximum Charge Current	50A	充电截止电流 Charge Cut-off Current	1.5A METHOUS
标准放电电流 Standard discharge Current	50A	最大放电电流 Maximum Discharge Current	100A
放电截止电压 Discharge Cut-off Voltage	44.8V	物理形状说明 Physical description	长方体 Cuboid 440mm(W)×530mm(D) ×132mm(H)
电芯数量 Cell Quantity	16 PCS	重量 Mass	43kg
电芯容量 Cell Capacity	100Ah	电芯型号 Cell Model	001CB0Y0
电芯生产单位 Manufacturer of cell		P德时代新能源科技股份有	· Dr.)

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### GUANGZHOU CUSTOMS DISTRICT TECHNOLOGY CENTER

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序号 No.	测试项目名称 Name of test	Stand requirement or the clause number of	试结果 est result	本项结论 Test conclusion	备注 Remark
1	高空模拟 Altitude simulation	个你在于两》UN Manual Of Tests and Criteria ST/SG/AC 10/11/Pay 6/A mand 1	上附表 1 See pendix 1	合格 Passed	, OHIO
2	温度试验 Thermal test	作作 # カガ 》 UN Manual Of lests and Criteria ST/SG/AC 10/11/Rev 6/A mend 1	上附表 2 See opendix 2	合格 Passed	, , , , , , , , , , , , , , , , , , ,
3	振 动 Vibration	个你准寸研》UN Manual Of Tests and Criteria ST/SG/AC 10/11/Pay 6/A mand 1	上附表 3 See opendix 3	合格 Passed	LHOU /
4	冲击 Shock	作体性ナガルUN Manual Of Tests and Criteria ST/SG/AC 10/11/Rev 6/A mend 1	上附表 4 See opendix 4	合格 Passed	ST CANTER
5	外部短路 External short circuit	作作 市	上附表 5 See opendix 5	合格 Passed	/ SDIST
6	挤压 Crush	作体性ナガルUN Manual Of lests and Criteria ST/SG/AC 10/11/Rev 6/A mend 1	上附表 6 See opendix 6	合格 Passed	1
7	过度充电 Overcharge	作体性ナガルUN Manual Of lests and Criteria ST/SG/AC 10/11/Rev 6/A mend 1	L附表 7 See opendix 7	合格 Passed	/
8	强制放电 Forced discharge	和标准于册》UN Manual of lests and Criteria ST/SC/AC 10/11/Pay 6/A mond 1	上附表 8 See opendix 8	合格 Passed	alch Alchi
Test	测试环境 environment condition	环境温度: 20℃-25℃; 环境湿 Ambient temperature: 20℃-25℃, Ambie			
	ETATION OF	测试项目 Test items	/	JISTO.	MCTHO!
Subc	分包测试情况 ontracted test condition	分包实验室 Subcontracted Laboratory Address  A  A  A  A  A  A  A  A  A  A  A  A	3URIGIHO.	邮编 Post code 电话 Tel	/

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序号 No.	- A	附表 1 opendix 1	JUSTONE	测试项目名和 Name of test		高空模排 Altitude simu	
标准要求 Requirement of Standard	池组应无重量 在试验后的开 组除外 )。 Test cells and temperature 20 venting, no dis battery after te	损失、无渗漏、 路电压不少于。 batteries shall be 0±5℃. Cells and cassembly, no rusting is not less	、无排气、无 其在进行这一 e stored at a pro batteries meet pture and no fi than 90% of its	解体、无破裂 试验前电压的 essure of 11.6k this requireme re and if the op s voltage imme	和无燃烧, 90%(完全放 Pa or less for ent if there is r ben circuit vol diately prior t	学放至少 6h。试明 并且每个试验电池 故电状态的试验的 at least six hours no mass loss, no leage of each test co this procedure." at fully discharge	也或电池组 电池或电池 at ambient eakage, no cell or The
样品状态 Sample status	b1#~b2#: fir b3#~b4#: 第	一个循环完全充 st cycle in fully ( 二十五个循环完 ter 25 cycles end	charged states; 全充电的电流	也。			
样品编号	测试前	Before	测试/	f After	质量损失	剩余电压	测试结果
Sample No.	电池质量 m <sub>l</sub> (kg)	开路电压 V <sub>1</sub> (v)	电池质量 m <sub>2</sub> (kg)	开路电压 v <sub>2</sub> (v)	Mass loss (%)	Residual OCV(%)	Test result
b1#	43.00	53.2	43.00	53.1	0.00	99.81	0
b2#	43.00	53.2	43.00	53.2	0.00	100.00	0 6
b3#	43.00	53.2	43.00	53.2	0.00	100.00	О
b4#	43.00	53.2	43.00	53.1	0.00	99.81	О

注: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, V-Venting, D-Disassembly, R-Rupture, F-Fire, O- No Leakage, No Venting, No Disassembly, No Rupture & No Fire.

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序号 No.		表 2 endix 2		l试项目名称 Name of test	GUP	温度试 Thermal	
标准要求 Requirement of Standard	下存放至少 1.2 验电池或电池 无排气、无解 其在进行这一 Test large cells 72±2℃, follow maximum time repeated 10 tim temperature (20 no venting, no battery after tes	或电池组在试验 2h。两个极端试 组在环境温度 体、无破裂和分 试验前电压的 9 and batteries ar yed by storage for interval between nes, after which and 0±5℃). Cells and disassembly, no string is not less that	比验温度之间的 20±5℃下存放 无燃烧,并且4 90%(完全放 e to be stored for at least 12 ho en test temperat all test cells and d batteries mee rupture and no chan 90% of its	b最大时间间隔 24h。试验电验 每个试验电池或 电状态的试验 for at least 12 hours at a test ter ure extremes is d batteries are to this requirem of fire and if the voltage immed	屬为 30min。  地或电池组应或电池组在动电池或电池或电池组在动  ours at a test to the perature equestion of the stored for the perature to the perature t	重复 10 次,异 无重量损失、 无验后的开路申 且除外)。 emperature eq al to -40±2℃. This procedure or 24 hours at a no mass loss, voltage of each o this procedure	再将所有试 无渗漏、 起压不少于 ual to The is to be mbient no leakage, test cell or e. The
样品状态 Sample status	b1#~b2#: firs b3#~b4#: 第二	一个循环完全充 st cycle in fully c 二十五个循环完 er 25 cycles end	charged states; 全充电的电池		enu es cela	E CHING	OCT CENTRY
样品编号	测试前	Before	测试后	测试后 After		剩余电压	测试结果
Sample No.	电池质量 m <sub>l</sub> (kg)	开路电压 V <sub>1</sub> (v)	电池质量 m <sub>2</sub> (kg)	开路电压 V <sub>2</sub> (v)	Mass loss (%)	Residual OCV(%)	测试结米 Test result
b1#	43.00	53.1	43.00	52.8	0.00	99.44	0
b2#	43.00	53.2	43.00	52.8	0.00	99.25	O .
b3#	43.00	53.2	43.00	52.9	0.00	99.44	0
						_(2)	14

注: 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, V-Venting, D-Disassembly, R-Rupture, F-Fire, O- No Leakage, No Venting, No Disassembly, No Rupture & No Fire.

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No.		付表 3 pendix 3		则试项目名称 Name of test		振 Ż Vibra	
标准要求 Requirement of Standard	1gn 的最大加速速度达到 2gn(约的电池或电池:损失、无渗漏电压不少于其下 The large Cells distorting the cosinusoidal wave until 18Hz is refrequency increof 2gn is then m times for a total of the direction requirement if tif the open circuimmediately pri	电池组直接安装度,直到 18Hz。 频率约为 25Hz)。 组安装方向的每 在进行这一试验 and batteries are ells in such a man eform with a logal ached. The ampl ased until a peak maintained until the of 3 hours for each is of vibration must here is no mass la uit voltage of each ior to this proced	然后将振幅保 将最大加速度 个方向重复进 体、无破裂和 前电压的 90% firmly secured nner as to faithf arithmic sweep itude is then ma acceleration of the frequency is ach of three mu list be perpendic loss, no leakage th test cell or ballure. The require	持在 0.8mm(保持在 2gn 直行 12 次,一无燃烧,并且 (完全放电过 to the platfor from 7Hz to a sintained at 0. f 2gn occurs (a increased to 2 tually perpendular to the term, no venting, attery after testing the sintained at the term, and	总偏移 1.6mm 到频率增加到 共振动 3h。该 每个试验电闭 状态的试验电 m of the vibration. peak accelera 8mm (1.6mm approximately 00Hz. This cy dicular mounti minal face. Ce no disassembly ting is not less	m),并增加频率 到 200Hz。对 式验电池或电池 也或电池组在 地或电池组图 tion machine v The vibration s ation of 1gn is n total excursion 25Hz). A peak rcle shall be re- ing positions of ells and batterie y, no rupture and than 90% of in	国直到最大加 三个互相垂直量 地组应无开重量 式验后的开路 without hall be a maintained d) and the acceleration peated 12 f the cell. One es meet this and no fire and ts voltage
	and batteries at	fully discharged	states.				
样品状态 Sample status	b1#~b2#: 第一 b1#~b2#: firs b3#~b4#: 第二	Tully discharged  - 个循环完全充的 t cycle in fully cl - 十五个循环完全 er 25 cycles endin	电的电池; harged states; 全充电的电池。		CHMOLOGY	JE RUCT TECHN	JETONE DETE
Sample status	b1#~b2#: 第一 b1#~b2#: firs b3#~b4#: 第二	-个循环完全充的 t cycle in fully cl -十五个循环完全 er 25 cycles endin	电的电池; harged states; 全充电的电池。	ged states.	质量损失	剩余电压	961 VD / L. BE
Sample	b1#~b2#:第一 b1#~b2#: firs b3#~b4#:第二 b3#~b4#: afte	-个循环完全充的 t cycle in fully cl -十五个循环完全 er 25 cycles endin	电的电池; harged states; 全充电的电池。 ng in fully charg	ged states.	质量损失 Mass loss (%)	剩余电压 Residual OCV(%)	测试结果 Test result
Sample status 样品编号	b1#~b2#:第一 b1#~b2#: firs b3#~b4#:第二 b3#~b4#: afte 测试前 电池质量	- 个循环完全充的 t cycle in fully cl 2 十五个循环完全 er 25 cycles endin Before	电的电池; harged states; 全充电的电池。 ng in fully charg 测试后 电池质量	ged states.  After  开路电压	Mass loss	Residual	
Sample status 样品编号 Sample No.	b1#~b2#: 第一 b1#~b2#: firs b3#~b4#: 第二 b3#~b4#: afte 测试前 电池质量 m <sub>1</sub> (kg)	- 个循环完全充t cycle in fully cl - 十五个循环完全 er 25 cycles endin Before	电的电池; harged states; 全充电的电池。 ng in fully charg 测试后 电池质量 m <sub>2</sub> (kg)	After  开路电压  v <sub>2</sub> (v)	Mass loss (%)	Residual OCV(%)	Test result
Sample status 样品编号 Sample No.	b1#~b2#: 第一 b1#~b2#: firs b3#~b4#: 第二 b3#~b4#: afte 测试前 电池质量 m <sub>1</sub> (kg)	- 个循环完全充 t cycle in fully cl - 十五个循环完 er 25 cycles endin Before  开路电压 v <sub>1</sub> (v)  52.8	电的电池; harged states; 全充电的电池。 ng in fully charg 测试后 电池质量 m <sub>2</sub> (kg)	After  开路电压 v <sub>2</sub> (v)  52.8	Mass loss (%) 0.00	Residual OCV(%)	Test result O

注: 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, V-Venting, D-Disassembly, R-Rupture, F-Fire, O- No Leakage, No Venting, No Disassembly, No Rupture & No Fire.

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片日							
序号 No.		附表 4 pendix 4	CISTONS	测试项目名 Name of to		冲 <sub>克</sub> Sho	
THOUGHSTOME	将电池或电池: g <sub>n</sub> =√(30000 / <i>u</i> 其正负极各冲 解体、无破裂和 验前电压的 90 Test cells and b	nass)中较小者 击 3 次,共冲音 和无燃烧,并且 1%(完全放电	的正弦波冲击 占18次。各试 每个试验电池 状态的试验电泡	,脉冲持续时 验电池或电池 或电池组在试 也或电池组除	间 11ms,按三 组应无重量损 试验后的开路电 外)。	个相互垂直的 失、无渗漏、 压不少于其在	轴向分别对 无排气、无 进行这一试
标准要求 Requirement of Standard	support all mou shock of peak a milliseconds. E by three shocks or battery for a leakage, no ven cell or battery a requirement rela states.( NOTE:	inting surfaces of acceleration of 5 ach cell or batte in the negative total of 18 shock ting, no disassed fter testing is no ating to voltage	of each test batter $0g_n$ or acceleratery shall be subjudirection of the ks. Cells and batter $0g_n$ is not applicable.	ery. Each Largetion $(g_n) = \sqrt{300}$ ected to three eee mutually penteries meet the and no fire and of its voltage	e batteries shall (1000 / mass) and shocks in the poterpendicular mother requirement is requirement in the open commediately property in the batteries of the commediately property in the comments of the comments	be subjected to nd pulse duration sitive direction unting position of there is no maircuit voltage of ior to this proc	o a half-sine on of 11 in followed as of the cell ass loss, no of each test edure. The
		A X 1	And the second				
样品状态 Sample status	b1#~b2#: 第一 b1#~b2#: firs b3#~b4#: 第二 b3#~b4#: afte	t cycle in fully o	harged states; 全充电的电池		ECHMOTOEACE	TRICT TECHNOL	OWEDISTRI
Sample status	b1#~b2#: firs b3#~b4#: 第二	t cycle in fully o 二十五个循环完 er 25 cycles endi	harged states; 全充电的电池	rged states.	质量损失	剩余电压	测试结果
Sample	b1#~b2#: firs b3#~b4#: 第二 b3#~b4#: afte	t cycle in fully o 二十五个循环完 er 25 cycles endi	charged states; 全充电的电池 ing in fully cha	rged states.	质量损失 Mass loss (%)	剩余电压 Residual OCV(%)	测试结果 Test result
Sample status 样品编号	b1#~b2#: firs b3#~b4#: 第二 b3#~b4#: afte 测试前 电池质量	t cycle in fully of the the cycle in fully of the cycles ending the cycles end ending the cycles end	charged states; 全充电的电池 ing in fully char 测试后 电池质量	rged states. After 开路电压	Mass loss	Residual	
Sample status 样品编号 Sample No.	b1#~b2#: firs b3#~b4#: 第二 b3#~b4#: afte 测试前 电池质量 m <sub>1</sub> (kg)	t cycle in fully of the cycle in fully of the cycles ending a cycle end	eharged states; 全充电的电池 ing in fully char 测试后 电池质量 m <sub>2</sub> (kg)	rged states.  After  开路电压  v <sub>2</sub> (v)	Mass loss (%)	Residual OCV(%)	Test result
Sample status 样品编号 Sample No.	b1#~b2#: firs b3#~b4#: 第二 b3#~b4#: afte 测试前 电池质量 m <sub>1</sub> (kg)	t cycle in fully of the	eharged states; 全充电的电池 ing in fully char 测试后 电池质量 m <sub>2</sub> (kg)	开路电压 v <sub>2</sub> (v) 52.8	Mass loss (%) 0.00	Residual OCV(%)	Test result O

注: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, V-Venting, D-Disassembly, R-Rupture, F-Fire, O- No Leakage, No Venting, No Disassembly, No Rupture & No Fire.

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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	External short circuit
标准要求 Requirement of Standard	小于 0.1Ω 的短路条件,当电池 再观察电池或电池组 6h 才结束 6h 内应无解体、无破裂和无燃》 The cell or battery to be tested sha reaches 57±4℃ and then the cell external resistance of less than 0.1 least one hour after the cell or batt battery must be observed for a fur	all be temperature stabilized so that or battery shall be subjected to a sland of the stabilized so that or battery shall be subjected to a sland of the stabilized so that tery external case temperature has at ther six hours for the test to be concemperature does not exceed 170°C	后继续至少 1h,然后短路断开,应不超过 170℃,并且试验后 tits external case temperature nort circuit condition with a total condition is continued for at returned to 57±4℃. The cell or cluded. Cells and batteries meet
样品状态 Sample status	b1#~b2#: 第一个循环完全充电b1#~b2#: 第一个循环完全充电b3#~b4#: 第二十五个循环完全b3#~b4#: after 25 cycles ending	rged states;	the one of the state of the sta
样品编号 Sample No.	样品表面最高温度 Max External Temperatur		会事 Remark
b1#	60.2	JOHNO BEET O	JEDET JOHN
b2#	59.9	0,5	CILICO 1
b3#	59.5	Jist Jiro	W 1
b4#	60.4	CHO CHANGE O	
- A	,0°	~	

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

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序号 No.	附表 (Appendi		E CON	测试项目 Name of		挤压 Crush	COL
标准要求 Requirement of Standard	(适用于棱柱形、	袋装、硬币平 线数在两个,直 13kN±0.78 至少 100 度 好 上 是 是 是 是 是 是 是 是 是 是 是 是 是 是 是 是 是 是	面之间挤成 到出现以 kN; 或以完成 。 。 。 。 。 。 。 。 。 。 。 。 。 。 。 。 。 。 。	和直径小于 18 玉,挤压力度: 下三种情况之。 。 纽扣/硬币电 一次挤压试验。 不超过 170℃, /button cells and crushed between/s at the first below is reach; 100mV; or its original thickness, the coltage and the coltage and thickness, the coltage and the coltage a	Bmm 的圆柱形电池 逐渐加大,在第一个 一即解除压力: 池应从其平坦表面。 并且在试验过程中 dd cylindrical cells no een two flat surfaces. point of contact. The ted.	): 接触点上的 施压。圆柱形 可和试验后 6 ot more than The crushing e crushing is	p速度大约 が速度大约 が中地 が 18 in g is to be to be
样品状态 Sample status	this requirement if the no fire during the test C1#~C5#: 第一个公C1#~C5#: first cyc C6#~C10#: 第二十	neir external st and within 循环 50%的 ele at 50% of 五个循环 5	temperature six hours 额定容量的 f the design 50%的额定	re does not exc after this test. 内电芯。 n rated capacity	eed 170°C and there		
样品编号 Sample No.	样品表面最高温度 Max External Temperature(℃)	测试结果 Test result	备注 Remark	样品编号 Sample No.	样品表面最高温度 Max External Temperature(℃)	测试结果 Test result	备注 Remark
C1#	25.1	0	/	≥ C6#	25.0	О	.d./k.0
C2#	25.3	} O	- C / S	C7#	25.2	0	8 /
C3#	25.2	O	/	C8#	25.2	0	1
C4#	25.2	O	100	C9#	25.2	О	JP /
C5#	25.2	О	610/m	C10#	25.3	0	/

注: D-解体; R-破裂; F-起火; O-无解体、无破裂、无起火。

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

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序号 No.	附表 7 Appendix 7	测试项目名称 Name of test	11/01/01/5	过度充电 Overcharge	89.
o TOME DI		」造商建议的最大连续充的充电电压不大于 18V的较少者。			
标准要求	可再充电电池组在 The charge current	的充电电压大于 18V 时, E环境温度下试验 24h。 i shall be twice the manufa um voltage of the test sha	式样在试验后7天内。 cturer's recommended	应无解体和无燃烧。	
Requirement of Standard	<ul><li>(a) When the manuvoltage of the test s</li><li>22V.</li><li>(b) When the manu</li></ul>	facturer's recommended chall be the lesser of two ti	harge voltage is not me mes the maximum cha harge voltage is more	arge voltage of the ba	attery or
REG THE	Tests are to be concerned Rechargeable batter days of the test.	1.2 times the maximum chanducted at ambient temperies meet this requirement	perature. The duration		
样品状态 Sample status	b1#~b2#: first cy b3#~b4#: 第二十	循环完全充电的电池; cle in fully charged states; 五个循环完全充电的电泳 5 cycles ending in fully cha	<u>L</u> .	G CHARLET	10670
样品编号 Sample No.		测试结果 Test result	'Cr LECHHOL	备注 Remark	ONSDE
b1#	CENTER MICH	O THERM	SEPTE ST.	HOME DIE	ysic
b2#	alot Klesk	O	THOUGH	CARCA	
b3#	REDIET.	STORM O NETHOUS		/	
b4#	-11400	O CUP	ELECTIVE .	1,00	

注: D-解体; R-破裂; F-起火; O-无解体、无破裂、无起火。

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

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	1,500		~~		.()
序号 No.	附表 8 Appendix 8	STREET .	测试项目名 Name of to		强制放电 Forced discharge
标准要求 Requirement of Standard	定的最大放电电流的燃烧。 Each cell shall be force D.C. power supply at manufacturer. The speappropriate size and rainterval (in hours) equi	ed discharged a an initial currer ecified discharg ating in series w all to its rated ca	et ambient temperate at ambient temperate tequal to the maxing e current is to be object the test cell. Ea apacity divided by	F充电电池在试验 cure by connecting mum discharge cu ptained by connect ich cell shall be for the initial test curr	E 起始电流等于制造商: 立后 7 天内应无解体和 it in series with a 12V arrent specified by the ting a resistive load of the red discharged for a ting tent (in Ampere). Primar no fire within seven day
样品状态 Sample status	C11#~C20#: 第一个 C11#~C20#: first cycl C21#~C30#: 第二十 C21#~C30#: after 25	e in fully disch 五个循环完全	arged states; 放电的电芯。	GUANGIHOU	Church 1 CELA
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
C11#	0	X81	C21#	0	1 S
C12#	0	<i>(</i> )	C22#	0	STE INOME
C13#	0 100	1	C23#	O	1010°/
C14#	O	SET T	C24#	0	New 1
C15#	0	/	C25#	o o	
C16#	0	1 Mest	C26#	0	S CEL I
C17#	O	8/	C27#	J OUT O	1 1
C18#	° 0	1	C28#	° 0 4	Q. S.
C19#	O	10106	C29#	0	TOWS /
C20#	O	A Com	C30#	O	Just / Hely

注: D-解体; R-破裂; F-起火; O-无解体、无破裂、无起火。

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

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### 样品图片

### Photo of the sample

### 电池与电芯/Battery and Cell











Product Name: Power Lite Model: L051100-A Nominal Energy/Voltage: 5.1KWh/51.2V Nominal Capacity: 100Ah 440\*530\*132mm Dimension(W\*D\*H):

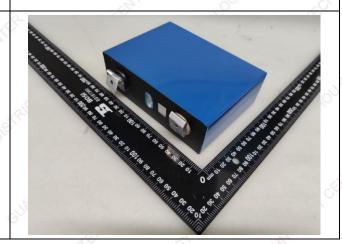
SHENZHEN UZ Energy Limited http://www.uzenergy.com

XNW51.21002xxxxxxxx





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Inspection Address: Room C102, No.1 Nanxiangzhi Road, Science City, Guangzhou, Guangdong, China (Light Industry Testing Laboratory in Science City)

电话(Tel): 020-38669019

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