

广州海关技术中心







GUANGZHOU CUSTOMS DISTRICT TECHNOLOGY CENTER

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No: 01112300002473-1(E)

Date: 2023-07-28 Page: 1 of 14

UN38.3 报告 UN38.3 Test Report

样品名称: 磷酸铁锂电池模组

Sample Name: Lithium iron phosphate battery module

委托单位: 广州菲利斯太阳能科技有限公司

Applicant: Guangzhou Felicity Solar Technology Co.,

广州海关技术的政策 CENTER GUANGZHOU CUSTOMS DISTRICT TECHNOLOGY CENTER

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01112300002473-1(E) No:

Date: 2023-07-28 Page: of 14

检测证书 TEST REPORT

	TESTINEFORT
样品名称	磷酸铁锂电池模组
Sample Name	Lithium iron phosphate battery module
型号 Model	HVC96050
委托单位	广州菲利斯太阳能科技有限公司
Applicant	Guangzhou Felicity Solar Technology Co., Ltd.
委托单位地址	广东省广州市白云区人和镇东华工业区东华兴富街 23 号
Applicant Address	No.23, xingfu street, renhe town, baiyun district, guangzhou, Guangdong
生产单位	广州菲利斯太阳能科技有限公司
Manufacture	Guangzhou Felicity Solar Technology Co., Ltd.
生产单位地址	广东省广州市白云区人和镇东华工业区东华兴富街 23 号
Manufacture Address	No.23, xingfu street, renhe town, baiyun district, guangzhou, Guangdong
样品外观与性状	白色金属外壳
Appearance & Odor	White metal shell
测试方法和判定标准 Test method and criterion	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.7/Amend.1 UN38.3 UNITED NATIONS "Recommendations on the TRANSPORT OF DANGEROUS GOODS" Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7/Amend.1, UN38.3
接样时间	2023-06-18 测试日期
Accepted date	Test date 2023-06-18~2023-07-28
测试项目	高度模拟、温度试验、振动、冲击、外部短路、旅压、过度充电、强制放电。
Test items	Altitude simulation, Thermal test, Vibration, Shock Working Short Fireuit, Crush, Forced discharge.
结论 Conclusion	经测试,该样品符合联合国《关于危险货物运输的建设节 试验和标准手册》 ST/SG/AC.10/11/Rev.7/Amend.1, UN38.3 标准要求。 The sample has passed the test items of UNITED NATIONS "Recommendations on the TRANSPORT OF DANGEROUS GOODS", Manual of Test and Criteria ST/SG/AC.10/11/Rev.7/Amend.1, UN38.3.
备注	1.随附 UN38.3 试验概要(编号: 01112300002473-2(E))。
Remark	Attached with UN38.3 test summary (No.: 01112300002473-2(E)).

Approver: PARSE

审核 Checker: 写初或

Appraiser: 周 佛 光



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No:

Date:



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2023-07-28 Page: 3 of 14

电池组信息:

The batteries information:

电池类型 Battery type	锂离子电池 Lithium Ion Battery	标称电压 Nominal Voltage	102.4V
15.		, all	
额定容量 Rated Capacity	50AH	总能量 Total Energy	5120Wh
充电限制电压 Limited Charge Voltage	115.2V	标准充电电流 Standard Charge Current	30A
最大充电电流 Maximum Charge Current	50A(120S)	充电截止电流 Charge Cut-off Current	5A OF
标准放电电流 Standard discharge Current	30A	最大放电电流 Maximum Discharge Current	50A(120S)
放电截止电压 Discharge Cut-off Voltage	96V	物理形状说明 Physical description	长方体 Cuboid
(单个电池包内含)电芯数量 Cell Quantity	SUPPLIED 32 SUPPLIED OF THE SU	重量 Mass	51 ±2kg
电芯容量 Cell Capacity	50AH	电芯型号 Cell Model	IFP23140160-50Ah
电芯生产单位 Manufacturer of cell		州菲利斯太阳能科技有限公ou Felicity Solar Technology	



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01112300002473-1(E) No:

2023-07-28 Date: Page: 4 of 14

# Altitude simulation	序号 No.	测试项目名称 Name of test	标准要求或标准条款号 Stand requirement or the clause number of standard	测试结果 Test result	本项结论 Test conclusion	备注 Remark
2 温度试验	1		和标准手册》UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7/Amend.1,		The second second	CHNOLOG
和标准手册》UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7/Amend.1, UN38.3 试验 T.3 Test T.3 本書	2		和标准手册》UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7/Amend.1,	1/2 // 1		, I distri
## A passed	3	1	和标准手册》UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7/Amend.1,			/ /
5 所用短的 External short circuit 和标准手册》UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7/Amend.1, UN38.3 试验 T.5 Test T.5 见附表 5 Appendix 5 合格 Passed 6 挤压 Crush 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.7/Amend.1, UN38.3 试验 T.6 Test T.6 见附表 6 Appendix 6 Passed 7 过度充电 Overcharge 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.7/Amend.1, UN38.3 试验 T.7 Test T.7 见附表 7 Appendix 7 Passed 8 强制放电 Forced discharge 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.7/Amend.1, UN38.3 试验 T.8 Test T.8 见附表 8 Appendix 8 Passed 9 测试环境 环境温度: 20℃-25℃; 环境湿度: 45%-75%	4		和标准手册》UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7/Amend.1,			ST CELL
6	5	External short	和标准手册》UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7/Amend.1,	Con. 1		ONEDIS
7 过度充电	6	The second secon	和标准手册》UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7/Amend.1,		4.3	1
8 强制放电 Forced discharge 和标准手册》UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7/Amend.1, UN38.3 试验 T.8 Test T.8 Appendix 8 Passed	7		和标准手册》UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7/Amend.1,			ACT ACHM
	8		和标准手册》UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7/Amend.1,	()		METHOU!
	Test					200

^{1.} 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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01112300002473-1(E) No:

Date: 2023-07-28 Page: 5 of 14

序号 No.		表 1 endix 1		试项目名称 ame of test	STORE	高度模技 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 b temperature 20 venting, no disa battery after tes	池组在压力等于 损失、无渗漏、 路电压不少于其 patteries shall be s ±5℃. Cells and b assembly, no rup sting is not less th ating to voltage i	无排气、无角 在进行这一istored at a presonatteries meet ture and no fire and 90% of its	解体、无破裂。 我验前电压的 sure of 11.6kI his requirement and if the ope voltage immed	和无燃烧,并 90%(完全放 Pa or less for a nt if there is no en circuit volta liately prior to	且每个试验电电状态的试验 t least six hours o mass loss, no age of each test this procedure.	池或电池组 电池或电池 s at ambient leakage, no cell or . The
样品状态 Sample status	b1#~b2#: firs b3#~b4#: 第二	一个循环完全充向 to cycle in fully ch 二十五个循环完全 er 25 cycles endir	narged states; 全充电的电池		'WETHONC!	STON	3THOU THE
孙口仰日	测试前	Before	测试后	After	质量损失	剩余电压	加小片件用
样品编号 Sample No.	电池质量 m _l (kg)	开路电压 V ₁ (v)	电池质量 m ₂ (kg)	开路电压 V2(V)	Mass loss (%)	Residual OCV(%)	测试结果 Test result
b1#	50.090	106.590	50.090	106.590	0.00	100.00	0
01#	0					/ '	D.
b2#	50.084	106.614	50.084	106.614	0.00	100.00	О
0	50.084	106.614	50.084	106.614	0.00	100.00	0

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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b3#

b4#

50.106

50.114

106.609

106.611

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01112300002473-1(E) No:

2023-07-28 Date: 6 of 14 Page:

序号 No.	Cont.	表 2 endix 2		试项目名称 ame of test	ONS	温度试验	
标准要求 Requirement of Standard	下存放至少 1. 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 tin temperature (2) no venting, no battery after tes	或电池组在试验 2h。两个极端设 组在环境温度。 体、无破裂和 试验前电压的 sand batteries are yed by storage for einterval between es, after which 0±5°C). Cells and disassembly, no sting is not less to lating to voltage	太验温度之间的 20±5℃下存放 无燃烧,并且到 90%(完全放 re to be stored for at least 12 ho en test temperate all test cells and do batteries med rupture and no than 90% of its	n最大时间间隔 24h。试验电池 每个试验电池。 电状态的试验 or at least 12 h ours at a test ter ure extremes is d batteries are to this requirem of fire and if the voltage immed	屬为 30min。 池或电池组点或电池组在设电池或电池或电池约 ours at a test of the stored for	重复 10 次, 五无重量损失 式验后的开路。 且除外)。 temperature ec 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、电压不少于 qual to The e is to be ambient no leakage, a test cell or re. 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 o 二十五个循环完 er 25 cycles end	charged states; 全充电的电池		JANGIR	۶.	36 TOEHHIER
样品编号	测试前 Before		测试后	After	质量损失	剩余电压	测试结果
Fin 細写 Sample No.	电池质量 m _l (kg)	开路电压 Vı(v)	电池质量 m ₂ (kg)	开路电压 V2(V)	Mass loss (%)	Residual OCV(%)	测试结果 Test result
b1#	50.090	106.590	50.090	106.579	0.00	99.99	O
b2#	50.084	106.614	50.082	106.603	0.00	99.99	О
1	T.	Oly.	100	GV			0_

106.602

106.610

0.00

0.00

99.99

100.00

O

0

50.104

50.110

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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01112300002473-1(E) No:

2023-07-28 Page: 7 of 14

No.		表 3 endix 3		试项目名称 ame of test	STOWN	振动 Vibratio	n GUANG
标准要求 Requirement of Standard	Ign 的最大加速速度达到 2gn(织的电池或电池或电池线损失、无渗漏、电压不少于其积 The large Cells distorting the cesinusoidal wave until 18Hz is refrequency increof 2gn is then m times for a total of the directions requirement if the open circuimmediately pri	电池组直接安装度,直到 18Hz。 原,直到 18Hz。 原率约为 25Hz)。 现率约为 C5Hz)。 证字装方向的每 无排气、无解 在进行这一试验 and batteries are ells in such a man form with a loga ached. The ampl ased until a peak aintained until th of 3 hours for ea of vibration must here is no mass l nit voltage of eac or to this proced fully discharged	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 mer as to faithfarithmic sweep itude is then ma acceleration of the frequency is ach of three mu ast be perpendicust, no leakage th test cell or ballure. The require	提持在 0.8mm(保持在 2gn 直行 12 次,一天燃烧,并且 (完全放电) to the platforfully transmit of from 7Hz to a mintained at 0. f 2gn occurs (a increased to 2 tually perpendular to the term, no venting, ruttery after testing the contract of the term, and the term of the	(总偏移 1.6m 共振动 3h。这 每个试验电池 状态的试验电池 状态的试验电池 the vibration. a peak accelera 8mm (1.6mm approximately 200Hz. This cy dicular mount minal face. Co no disassemble ting is not less	m),并增加频率到 200Hz。对三 试验电池或电池组在记 地或电池组在记 记述或电池组除 ation machine w The vibration sl ation of 1g _n is n total excursion 25Hz). A peak ycle shall be rep ing positions of ells and batterie y, no rupture an s than 90% of it	直到最大加 三个互相垂直 地组应无重量 式验后的开路 外)。 without hall be a naintained) and the acceleration peated 12 the cell. One as meet this ad no fire and s voltage
.S		15	Co.		, <u>L</u>		50
样品状态 Sample status	b1#~b2#: first b3#~b4#: 第二	个循环完全充的 cycle in fully cl 十五个循环完全 r 25 cycles endin	电的电池; narged states; 全充电的电池。		HHOTOG CENT	TRICT TECHNOL	SO THE DESTRICT
Sample status	b1#~b2#: first b3#~b4#: 第二	cycle in fully cl 十五个循环完。 r 25 cycles endir	电的电池; narged states; 全充电的电池。	ged states.	质量损失	剩余电压	测光社用
Sample	b1#~b2#: first b3#~b4#: 第二 b3#~b4#: afte	cycle in fully cl 十五个循环完。 r 25 cycles endir	电的电池; narged 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#: first b3#~b4#: 第二 b3#~b4#: afte 测试前〕 电池质量	cycle in fully cl 十五个循环完定 r 25 cycles endir Before 开路电压	电的电池; narged 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#: first b3#~b4#: 第二 b3#~b4#: afte 测试前 电池质量 m1(kg)	r cycle in fully cl 十五个循环完全 r 25 cycles endin Before 开路电压 v1(v)	电的电池; narged states; 全充电的电池。 ng in fully charg 测试后 电池质量 m ₂ (kg)	After 开路电压 v2(v)	Mass loss (%)	Residual OCV(%)	Test result
Sample status 样品编号 Sample No.	b1#~b2#: first b3#~b4#: 第二 b3#~b4#: afte 测试前 电池质量 m ₁ (kg) 50.090	r cycle in fully cl 十五个循环完定 r 25 cycles endin Before 开路电压 v1(v)	电的电池; narged states; 全充电的电池。 ng in fully charş 测试后 电池质量 m ₂ (kg) 50.090	After 开路电压 v2(v) 106.578	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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测试项目名称

Name of test

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附表 4 Appendix 4

01112300002473-1(E) No:

2023-07-28 8 of 14 Page:

冲击

Shock

标准要求 Requirement of Standard 样品状态 Sample status	gn= √(30000 / n 其正负极各冲 解体、无破裂和验前电压的 90 Test cells and b 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: b1#~b2#: 第一 b1#~b2#: 第二 b3#~b4#: 第二	击 3次,共冲击 中无燃烧,并且 1%(完全放电料 atteries shall be nting surfaces of cceleration of 50 ach cell or batter in the negative total of 18 shock ting, no disasser fter testing is no ating to voltage Mass is express -个循环完全充 t cycle in fully c	的正弦波冲击	,脉冲持续时验电池或电池或电池组在设池或电池组保管。 Each Larg tion (gn) = √(30 jected to three ree mutually poatteries meet the and no fire a 6 of its voltage le to test cells	间 11ms,按三 组组应无重量损 机验后的开路电 外)。 ne by means of a ge batteries shall 0000 / mass) a shocks in the po erpendicular mo nis requirement and if the open of immediately pro-	个相互垂直的 失、无渗漏、 压不少于其在 a rigid mount w be subjected to nd pulse duration positive direction counting position if there is no ma circuit voltage of cior to this process.	轴向分别对 无排气、无 进行这一试 hich will o a half-sine on of 11 followed s of the cell ass loss, no if each test edure. The
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
件如細亏 Sample No.	电池质量 m _l (kg)	开路电压 V _I (v)	电池质量 m ₂ (kg)	开路电压 v ₂ (v)	Mass loss (%)	Residual OCV(%)	测试结末 Test result
b1#	50.090	106.578	50.090	106.578	0.00	100.00	О
b2#	50.080	106.600	50.080	106.600	0.00	100.00	O NOTE
b3#	50.104	106.601	50.104	106.601	0.00	100.00	0
b4#	60		, Eli	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	3		0

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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01112300002473-1(E) No:

2023-07-28 9 of 14 Page:

序号 No.	附表 5 Appendix 5	测试项目名称 Name of test	外部短路 External short circuit
标准要求 Requirement of Standard	待试验电池或电池组的外壳温度小于 0.1Ω 的短路条件,当电池是再观察电池或电池组 6h 才结束6h 内应无解体、无破裂和无燃烧The cell or battery to be tested shareaches 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 furt this requirement if their external terupture and no fire within six hour	或电池组外壳温度回到 57±4℃点试验。电池或电池组的外壳温度瓷。 lll be temperature stabilized so that or battery shall be subjected to a so ohm at 57±4℃. This short circuit there yexternal case temperature has there six hours for the test to be coremperature does not exceed 170℃	后继续至少 1h,然后短路断开, 应不超过 170℃,并且试验后 t its external case temperature hort circuit condition with a total condition is continued for at returned to 57 ±4℃. The cell or included. Cells and batteries meet
样品状态 Sample status	b1#~b2#: 第一个循环完全充电 b1#~b2#: first cycle in fully char b3#~b4#: 第二十五个循环完全 b3#~b4#: after 25 cycles ending	rged states;	ON GUNTE TOEMER
样品编号 Sample No.	样品表面最高温度 Max External Temperature	测试结果 e(℃) Test resul	A L Damark
b1#	56.6	DOGT THOMMO	TRIC INE DIE
b2#	57.4	ECHING O	MEDIS ICUST
b3#	56.8	ONE DE LOS	Waltho / Gul
b4#	57.2	Metric o	Carl.

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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01112300002473-1(E) No:

2023-07-28 Date:

10 of 14 Page:

序号 No.	附表 6 Appendix		,5	测试项目名称 Name of test	·JSTOM'S	-140	挤压 Crush	CHANGE
JHVO'S ONE DIE	(适用于棱柱形、 将电池或元件电池; 为 1.5cm/s。挤压持 (a)施加的力量达到 (b)电池的电压下降	放在两个平 续进行,直 13kN±0.78	面之间挤压 直到出现一 kN;	压,挤压力度;	逐渐加大,	在第一个		1速度大约
1- 0 TE 1	(c)电池变形量达原 棱柱形或袋装电池, 与纵轴垂直的方向; 试验电池或电池组	始厚度的 50 应从最宽的 施压。每个	0%或以上 一面施压。 电池只做-	纽扣/硬币电	o (C)			
标准要求 Requirement of Standard	无解体、无破裂、 Crush (applicable to diameter): A cell or gradual with a speed continued until the fi (a)The applied force (b)The voltage of the (c)The cell is deform Once the maximum cell is deformed by a Each test cell or conthis requirement if the	prismatic, promponent of approximation of the threaches 13ke cell drops and by 50% pressure has at least 50% apponent cell deir external	oouch, coin/ cell is to be mately 1.5cr ree options kN±0.78kN by at least 1 or more of been obtain of its original is to be sub- temperature	button cells an crushed between/s at the first below is reach; 100mV; or its original thickness, to ijected to one ce does not except.	end cylindrica een two flat point of corned. ckness. ge drops by a he pressure crush only. (I cells no surfaces. ' itact. The at least 10 shall be re Cells and o	t more than The crushing crushing is 00mV or more eleased. component of	18 in g is to be to be
样品状态 Sample status	no fire during the tes C1#~C5#: 第一个 C1#~C5#: first cyc C6#~C10#: 第二十 C6#~C10#: after 2	盾环 50%的 cle at 50% o 五个循环 5	额定容量的 f the desigr 50%的额定	为电芯。 rated capacity		11. 4	cthoncozi,	GUP
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.	样品表面量 Max Ex Temperat	ternal	测试结果 Test result	备注 Remark
C1#	24.5	OSUPA	/	C6#	24.	6	O	Z PHILL
C2#	24.6	0	1 Chillion	C7#	24.	2 ECHINA	0	(S) /
C3#	24.1	0,,,,,	5 /	C8#	24.	6	0	/w ^c
C4#	24.8	×0	1,650	C9#	24.	7 ,010	0	ANG LI
C5#	25.0	0	ONS	C10#	24.	5	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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01112300002473-1(E) No:

2023-07-28 Date: 11 of 14 Page:

序号 No.	附表 7 Appendix 7	测试项目名称 Name of test	过度充电 Overcharge
标准要求 Requirement of Standard	(a) 制造商建议的充电电压不倍或 22V 两者中的较少者。 (b) 制造商建议的充电电压大可再充电电池组在环境温度 The charge current shall be twice current. The minimum voltage of (a) When the manufacturer's recovoltage of the test shall be the les 22V. (b) When the manufacturer's recof the test shall be 1.2 times the rests are to be conducted at a	ommended charge voltage is not make of two times the maximum charge with the same of two times the maximum charge with the same of the sam	是最大充电电压的 1.2 倍。 内应无解体和无燃烧。 maximum continuous charge ore than 18V, the minimum arge voltage of the battery or than 18V, the minimum voltage n of the test shall be 24 hours.
样品状态 Sample status	b1#~b2#: 第一个循环完全充电 b1#~b2#: first cycle in fully ch b3#~b4#: 第二十五个循环完全 b3#~b4#: after 25 cycles endin	arged states;	CENTER CHAOLOGY CELLY
样品编号 Sample No.	测试结果 Test result	TOCA CEE	备注 Remark
b1#	o o	ECHING LIVE	MEDIE / CIETO
b2#	O'YC,	OMS DE	16 Though City
b3#	STRIC'I ONS D'O	JUCUSTO GEHOO	CALL.
b4#	o Me	THE COL	/ cthin 20

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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01112300002473-1(E) No:

2023-07-28 Date:

12 of 14 Page:

序号 No.	附表 8 Appendix 8					
标准要求 Requirement of Standard	定的最大放电电流的燃烧。 Each cell shall be for D.C. power supply at manufacturer. The sp appropriate size and interval (in hours) eq	内条件下强制 ced discharged an initial curr pecified discharating in series ual to its rated	放电。原电池或可引 d at ambient temperate ent equal to the maxi rge current is to be of with the test cell. Ea capacity divided by	F充电电池在试验后 ture by connecting it i mum discharge curre totained by connecting ich cell shall be forced the initial test current	始电流等于制造商给7天内应无解体和无n series with a 12V nt specified by the a resistive load of the discharged for a time (in Ampere). Primary ire within seven days	
样品状态 Sample status	C11#~C20#: 第一 C11#~C20#: first cyc C21#~C30#: 第二- C21#~C30#: after 25	cle in fully disc 一五个循环完。	charged states; 全放电的电芯。	Die WETHONCREIC	CAMCTHON	
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#	O URM	/	C21#	0	COHNO, 1	
C12#	0	THE !	C22#	CCHMOL O THIC	1 1 1 1 1 1 1 1 1 1	
C13#	Milly O Socy	1	C23#	ONSTIE	(3)	
C14#	O	S. S.	C24#	0 (015)	CHOU / CU	
C15#	0	SDIP /	C25#	THOS O GAL	/	
C16#	0	16TH	C26#	0	CENTRY /	
C17#	0	GUP,	C27#	O NO	OC / TECHIN	
C18#	0	/	C28#	0 4	S. F.	
C19#	0	"Too	C29#	0	TONE / ON	
C20#	,,,o,,o	KECK 1	C30#	OMS 0 100	/AMG/	

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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01112300002473-1(E) No:

2023-07-28 Date: 13 of 14 Page:

样品图片

Photo of the sample

电池正面外观 Battery front appearance



电池侧面外观



电池铭牌(含 Wh) Battery nameplate (With Wh)



Lithium ion Battery				
Model	HVC96050			
Nominal Voltage	102.4V			
Nominal Capacity	50Ah			
Nominal Energy	5120Wh			
Enclosure Protection Rating	IP65			
Working Temperature Range	-10°C~+50°C			









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Date: 2023-07-28 Page: 14 of 14

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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.

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

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