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No: 01112300001568Y-1(E)

Date: 2023-04-25

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UN38.3 报告

UN38.3 Test Report

样品名称: 锂离子电池

Sample Name: Li-ion Battery

委托单位: 湖北亿纬动力有限公司

Applicant: EVE POWER CO., LTD



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检测证书 TEST REPORT

样品名称 Sample Name	锂离子电池 Li-ion Battery		
型号 Model	LF280K		
委托单位 Applicant	湖北亿纬动力有限公司 EVE POWER CO., LTD		
委托单位地址 Applicant Address	荆门高新区·掇刀区荆南大道 68 号 NO.68, Jingnan Avenue, Hi-tech Zone, Duodao District, Jingmen, Hubei		
生产单位 Manufacture	湖北亿纬动力有限公司 EVE POWER CO., LTD		
生产单位地址 Manufacture Address	荆门高新区·掇刀区荆南大道 68 号 NO.68, Jingnan Avenue, Hi-tech Zone, Duodao District, Jingmen, Hubei		
样品外观与性状 Appearance & Odor	蓝色方形外壳 Blue square 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, 38.3 UNITED NATIONS “Recommendations on the TRANSPORT OF DANGEROUS GOODS”, Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7, 38.3		
接样时间 Accepted date	2021-01-06	测试日期 Test date	2021-01-07~2021-01-28
测试项目 Test items	高度模拟、温度试验、振动、冲击、外部短路、撞击、强制放电。 Altitude simulation, Thermal test, Vibration, Shock, External short circuit, Impact, 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议书 试验和标准手册》ST/SG/AC.10/11/Rev.7, 38.3 标准要求。 The sample has passed the test items of UNITED NATIONS “Recommendations on the TRANSPORT OF DANGEROUS GOODS”, Manual of Test and Criteria ST/SG/AC.10/11/Rev.7, 38.3.		
备注 Remark	1.本报告与 01052100000142-1(E)报告的样品差异在于：仅电池外观、电池型号和铭牌变更，结构不变，无导致任何试验不符合要求的变化； The differences between this report and the 01052100000142-1 (E) report are as follows: The samples are only change in battery appearance, model and battery nameplate, structure unchanged, and there is no change that would lead to failure of any tests; 2.随附 UN38.3 试验概要（编号：01112300001568-2(E)）。 Attached with UN38.3 test summary (No.: 01112300001568-2(E)).		

批准

Approver:

陆路强

审核

Checker:

邱初哇

主检

Appraiser:

张佳



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电池信息:

The battery information:

电池类型 Battery type	锂离子电池 Lithium ion batteries	标称电压 Nominal Voltage	3.2V
额定容量 Rated Capacity	280Ah	总能量 Total Energy	896Wh
充电限制电压 Limited Charge Voltage	3.65V	标准充电电流 Standard Charge Current	140A
最大充电电流 Maximum Charge Current	280A	充电截止电流 Charge Cut-off Current	14A
标准放电电流 Standard discharge Current	140A	最大放电电流 Maximum Discharge Current	280A
放电截止电压 Discharge Cut-off Voltage	2.5V	物理形状说明 Physical description	长方体 Cuboid
重量 Mass	5470g	电芯生产单位 Manufacturer of cell	湖北亿纬动力有限公司 EVE POWER CO., LTD



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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
1	高度模拟 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.7, 38.3 试验 T.1 Test T.1	见附表 1 See Appendix 1	合格 Passed	/
2	温度试验 Thermal test	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, 38.3 试验 T.2 Test T.2	见附表 2 See Appendix 2	合格 Passed	/
3	振动 Vibration	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, 38.3 试验 T.3 Test T.3	见附表 3 See Appendix 3	合格 Passed	/
4	冲击 Shock	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, 38.3 试验 T.4 Test T.4	见附表 4 See Appendix 4	合格 Passed	/
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.7, 38.3 试验 T.5 Test T.5	见附表 5 See Appendix 5	合格 Passed	/
6	撞击 Impact	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, 38.3 试验 T.6 Test T.6	见附表 6 See Appendix 6	合格 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, 38.3 试验 T.7 Test T.7	见附表 7 See Appendix 7	不适用 Not applicable	/
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, 38.3 试验 T.8 Test T.8	见附表 8 See Appendix 8	合格 Passed	/
测试环境 Test environment condition		环境温度: 20℃-25℃; 环境湿度: 45%-75% Ambient temperature: 20℃-25℃, Ambient humidity: 45%-75%			

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序号 No.	附表 1 Appendix 1		测试项目名称 Name of test		高度模拟 Altitude simulation		
标准要求 Requirement of Standard	试验电池或电池组在压力等于或低于 11.6kPa 和环境温度 20℃±5℃下存放至少 6h。试验电池或电池组应无重量损失、无渗漏、无排气、无解体、无破裂和无燃烧，并且每个试验电池或电池组在试验后的开路电压不少于其在进行这一试验前电压的 90%（完全放电状态的试验电池或电池组除外）。 Test cells and batteries shall be stored at a pressure of 11.6 kPa or less for at least six hours at ambient temperature 20 ± 5 °C. Cells and batteries meet this requirement if there is no mass loss, no leakage, no venting, no disassembly, 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.						
样品状态 Sample status	C1#~C5#：第一个循环完全充电的电池； C1#~C5#： first cycle in fully charged states. C6#~C10#：第二十五个循环完全充电的电池。 C6#~C10#： after 25 cycles ending in fully charged states.						
样品编号 Sample No.	测试前 Before		测试后 After		质量损失 Mass loss (%)	剩余电压 Residual OCV(%)	测试结果 Test result
	电池质量 m ₁ (g)	开路电压 v ₁ (v)	电池质量 m ₂ (g)	开路电压 v ₂ (v)			
C1#	5490.5	3.37	5490.3	3.35	0.00	99.41	O
C2#	5492.6	3.38	5492.5	3.37	0.00	99.70	O
C3#	5491.7	3.36	5491.7	3.35	0.00	99.70	O
C4#	5493.3	3.34	5493.2	3.32	0.00	99.40	O
C5#	5490.8	3.38	5490.8	3.37	0.00	99.70	O
C6#	5491.6	3.36	5491.6	3.35	0.00	99.70	O
C7#	5492.3	3.39	5492.3	3.38	0.00	99.71	O
C8#	5491.8	3.40	5491.7	3.38	0.00	99.41	O
C9#	5493.6	3.37	5493.5	3.35	0.00	99.41	O
C10#	5492.5	3.36	5492.5	3.34	0.00	99.40	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 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稳定在 $57\pm4^{\circ}\text{C}$ 后，在 $57\pm4^{\circ}\text{C}$ 下使电池或电池组经受总外电阻小于 0.1Ω 的短路条件，当电池或电池组外壳温度回到 $57\pm4^{\circ}\text{C}$ 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°C ，并且试验后 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 $57\pm4^{\circ}\text{C}$ and then the cell or battery shall be subjected to a short circuit condition with a total external resistance of less than 0.1 ohm at $57\pm4^{\circ}\text{C}$. This short circuit condition is continued for at least one hour after the cell or battery external case temperature has returned to $57\pm4^{\circ}\text{C}$. The cell or battery must be observed for a further six hours for the test to be concluded. Cells and batteries 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	C1#~C5#: 第一个循环完全充电的电池； C1#~C5#: first cycle in fully charged states. C6#~C10#: 第二十五个循环完全充电的电池。 C6#~C10#: after 25 cycles ending in fully charged states.		
样品编号 Sample No.	样品表面最高温度 Max External Temperature($^{\circ}\text{C}$)	测试结果 Test result	备注 Remark
C1#	72.3	O	/
C2#	73.0	O	/
C3#	72.8	O	/
C4#	73.6	O	/
C5#	74.1	O	/
C6#	70.7	O	/
C7#	71.9	O	/
C8#	73.8	O	/
C9#	74.2	O	/
C10#	69.2	O	/
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 6 Appendix 6	测试项目名称 Name of test		撞击 Impact			
标准要求 Requirement of Standard	撞击（适用与直径不小于 18mm 的圆柱形电池）： 试样电池或元件电池放在平坦光滑的表面上，一根 316 型不锈钢棒横放在试样的中心，钢棒的直径（15.8±0.1）毫米，长度至少 6 厘米，或电池最长端的尺度，取二者之长者，用一块（9.1±0.1）千克的重锤从（61±2.5）厘米高处跌落到钢棒和试样交叉处。使用一个几乎没有摩擦的、对落体重锤阻力最小的垂直轨道或管道加以控制，垂直轨道或管道用于引导落锤沿与水平表面支撑表面呈 90 度落下。 接受撞击的试样，纵轴应于平坦表面平行并与横放在试中心的直径（15.8±0.1）毫米弯曲表面的纵轴垂直，每个试样只经受一次撞击。 试验电池或电池组的组成电芯外部温度不超过 170℃，并且在试验过程中和试验后 6 小时内应无解体、无破裂、无起火。						
	Impact (applicable to cylindrical cells not less than 18mm in diameter): Test procedure – Impact (applicable to cylindrical cells greater than 20 mm in diameter) The sample cell or component cell is to be placed on a flat smooth surface. A 15.8±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 center of the sample. A 9.1±0.1kg mass is to be dropped from a height of 61±2.5cm at the intersection of the bar and sample in a controlled manner using a near frictionless, 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 the horizontal supporting surface. The test sample is to be impacted with its longitudinal axis parallel to the flat surface and perpendicular to the longitudinal axis of the 15.8±0.1mm diameter curved surface lying across the center of the test sample. Each sample is to be subjected to only a single impact. Cells and component cells meet this requirement if their external temperature does not exceed 170℃ and there is no disassembly and no fire during the test and within six hours after this test.						
样品状态 Sample status	C11#~C15#: 第一个循环 50%的额定容量的电芯。 C11#~C15#: first cycle at 50% of the design rated capacity of cell. C16#~C20#: 第二十五个循环 50%的额定容量的电芯。 C16#~C20#: after 25 cycles at 50% of the design rated capacity of cell.						
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
C11#	20.7	O	/	C16#	22.2	O	/
C12#	21.6	O	/	C17#	21.5	O	/
C13#	20.9	O	/	C18#	21.8	O	/
C14#	21.5	O	/	C19#	22.1	O	/
C15#	21.3	O	/	C20#	21.5	O	/

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	过度充电 Overcharge
标准要求 Requirement of Standard	充电电流必须是制造商建议的最大连续充电电流的两倍，试验的最小电压应为如下： （a）制造商建议的充电电压不大于 18V 时，试验的最小电压应是电池组最大充电电压的两倍或 22V 两者中的较少者。 （b）制造商建议的充电电压大于 18V 时，试验的最小电压应是最大充电电压的 1.2 倍。 可再充电电池组在环境温度下试验 24h。试样在试验后 7 天内应无解体和无燃烧。 The charge current shall be twice the manufacturer's recommended maximum continuous charge current. The minimum voltage of the test shall be as follows: (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. (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 of the test shall be 24 hours. Rechargeable batteries meet this requirement if there is no disassembly and no fire within seven days of the test.		
样品状态 Sample status	/		
样品编号 Sample No.	测试结果 Test result	备注 Remark	
/	/	未安装过度充电保护装置、按设计要求只能用在另一个带过度充电保护装置的电池组或设备中的电池组或单一电池电池组，无需满足本项试验的要求。 Batteries or single cell batteries not equipped with battery overcharge protection that are designed for use only as a component in another battery or in equipment, which affords such protection, are not subject to the requirements of this test.	
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/	/		
/	/		
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.			



广州海关技术中心

GUANGZHOU CUSTOMS DISTRICT TECHNOLOGY CENTER



中国认可
国际互认
检测
CNAS L2322

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Add.: Tower B, No.66 Huacheng Avenue, Zhujiang Xincheng, Tianhe District, Guangzhou, Guangdong, P.R.C.

电话Tel: 020-22131000 邮箱Email: ppdc@iqtcnet.cn 网址Website: https://www.iqtcnet.cn

No: 01112300001568Y-1(E)

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序号 No.	附表 8 Appendix 8	测试项目名称 Name of test		强制放电 Forced discharge	
标准要求 Requirement of Standard	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给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 天内应无解体和无燃烧。 Each cell shall be forced discharged at ambient temperature by connecting it in series with a 12 V D.C. power supply at an initial current equal to the maximum discharge current specified by the manufacturer. 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).Primary or rechargeable cells meet this requirement if there is no disassembly and no fire within seven days of the test.				
样品状态 Sample status	C21#~C30#： 第一个循环完全放电的电芯； C21#~C30#： first cycle in fully discharged states; C31#~C40#： 第二十五个循环完全放电的电芯。 C31#~C40#： after 25 cycles in fully discharged states.				
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
C21#	O	/	C31#	O	/
C22#	O	/	C32#	O	/
C23#	O	/	C33#	O	/
C24#	O	/	C34#	O	/
C25#	O	/	C35#	O	/
C26#	O	/	C36#	O	/
C27#	O	/	C37#	O	/
C28#	O	/	C38#	O	/
C29#	O	/	C39#	O	/
C30#	O	/	C40#	O	/
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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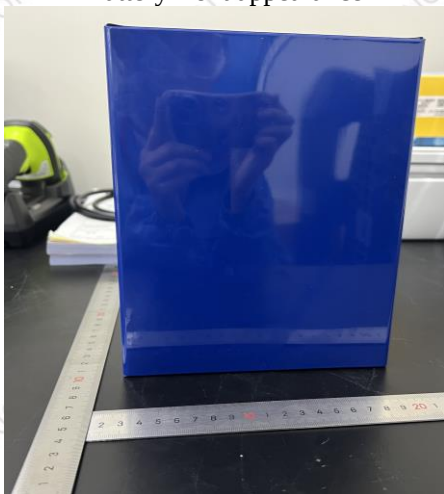
Date: 2023-04-25

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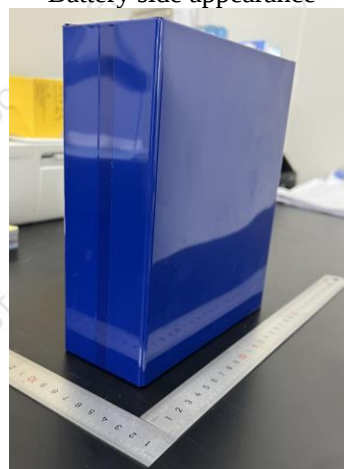
样品图片

Photo of the sample

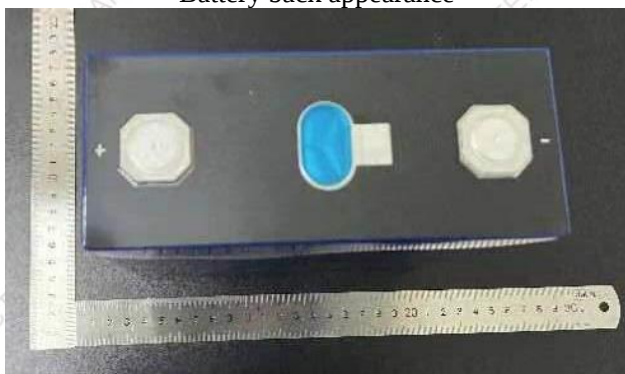
电池正面外观
Battery front appearance



电池侧面外观
Battery side appearance



电池背面外观
Battery back appearance



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





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声明 Statement

- 1.本报告无检测单位公章无效。

The test report is invalid without the official stamp of IQTC.

- 2 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.

- 3.本报告涂改无效。未经本实验室书面同意，不得部分地复制本报告。

The test report is invalid if altered. Nobody is allowed to photocopy or partly photocopy this report without written permission of IQTC.

- 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.对检测报告若有异议，应于收到报告之日起十五天内向检测单位提出。

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

- 6.本报告仅对送检样品负责。

The test report is valid for the tested samples only.

- 7.检测地址：广东省广州市科学城南翔支路1号C102房（汽车与装备检测研究所科学城）

Test Address: Room C102, No.1 Nanxiangzhi Road, Science City, Guangzhou, Guangdong, China
(Institute of Automobile and Equipment Testing in Science City)

电话(Tel): 020-38669019-811

电子邮箱(E-mail): battery@iqtcnet.cn

* * * * 报告结束 End of report * * * *