

# 广州海关技术中心

GUANGZHOU CUSTOMS DISTRICT TECHNOLOGY CENTER



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国际互认  
检测  
TESTING  
CNAS L2322

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网址: [www.iqtc.cn](http://www.iqtc.cn) 邮编: 510623  
Add: Tower B, No.66 Huacheng Avenue, Zhujiang Xincheng, Tianhe District, Guangzhou, China  
Website: [www.iqtc.cn](http://www.iqtc.cn) Postcode: 510623

No: 01052000000704-1(E)  
Date: 2020-03-04  
Page: 1 of 8

## UN38.3 报告 UN38.3 Test Report

样品名称: Battery-Box Premium LVL 15.4

Sample Name: Battery-Box Premium LVL 15.4

委托单位: 深圳比亚迪电子有限公司

Applicant: Shenzhen BYD Electronics Co., Ltd.



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## 检测证书 TEST REPORT

样品名称 Sample Name	Battery-Box Premium LVL 15.4		
型号 Model	Battery-Box Premium LVL 15.4		
内含电池组型号 Batteries Model	S17 25.6V 300Ah 7.68kWh		
委托单位 Applicant	深圳比亚迪电子有限公司 Shenzhen BYD Electronics Co., Ltd.		
委托单位地址 Applicant Address	深圳市大鹏新区葵涌街道葵涌社区延安路1号比亚迪A-4#厂房301 Room 301 of BYD A-4 Building, No.1 Yan'an Road, Kuichong Street, Dapeng New District, Shenzhen		
生产单位 Manufacture	深圳比亚迪电子有限公司 Shenzhen BYD Electronics Co., Ltd.		
生产单位地址 Manufacture Address	深圳市大鹏新区葵涌街道葵涌社区延安路1号比亚迪A-4#厂房301 Room 301 of BYD A-4 Building, No.1 Yan'an Road, Kuichong Street, Dapeng New District, Shenzhen		
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.6/Amend.1, 38.3 UNITED NATIONS "Recommendations on the TRANSPORT OF DANGEROUS GOODS", Manual of Tests and Criteria ST/SG/AC.10/11/Rev.6/Amend.1, 38.3		
接样时间 Accepted date	2019-10-29	测试日期 Test date	2019-10-29~2019-11-19
测试项目 Test items	过度充电、短路、电池组之间过度放电。 Overcharge, Short circuit, Over discharge between the batteries. (对于已通过所有适用试验的若干锂离子电池组以电路连接而成的电池包, 额定瓦特-小时数超过 6200Wh, 该集成电池组经验证具有过度充电、短路、电池组之间过度放电保护功能, 则无需进行其他试验。 When lithium ion batteries that have passed all applicable tests are electrically connected to form a battery pack, with a Watt-hour rating of more than 6200Wh, the assembled battery does not need to be tested if it has been verified as preventing: Overcharge, Short circuits and Over discharge between the batteries.)		
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.6/Amend.1, 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.6/Amend.1, 38.3.		
备注 Remark	1.检测结果仅对样品有效。 The test results are only valid for the test samples submitted the applicant. 2.动力电池系统(集成电池组)的额定瓦特-小时数超过 6200Wh, 由若干锂离子电池组以电路连接而成, 锂离子电池组已通过 UN38.3 测试(报告编号: 01051900003817-1(E)) The lithium batteries module of assembled battery 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.: 01051900003817-1(E))		

批准

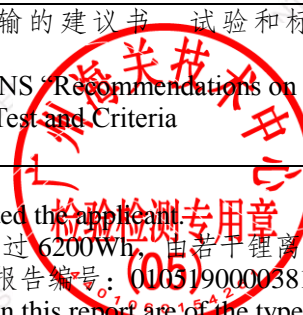
Approver:

审核

Checker:

主检

Appraiser:





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集成电池组信息：

The assembled battery information:

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	300Ah	总能量 Total Energy	15360Wh
充电限制电压 Limited Charge Voltage	57.6V	标准充电电流 Standard Charge Current	64A
最大充电电流 Maximum Charge Current	250A	充电截止电流 Charge Cut Off Current	20A
标准放电电流 Standard discharge Current	64A	最大持续放电电流 Max Continuous Discharge Current	250A
放电截止电压 Discharge Cut-off Voltage	40V	尺寸 Overall Dimensions (W×D×H)	575mm×500mm×700mm
重量 Mass	164kg	样品外观与性状 Appearance & Odor	灰色金属外壳 Sliver metal shell
电芯生产单位 Manufacturer of module	惠州比亚迪电子有限公司 Huizhou BYD Battery Co., Ltd.	电池组组合方式 Battery Pack Combination	2个 S17 25.6V 300Ah 7.68kWh 模组串联组成 2 S17 25.6V 300Ah 7.68kWh module series connection

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.

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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	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.6/Amend.1, 38.3	见附表 1 See Appendix 1	合格 Passed	/	
2	短路 Short circuits	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.6/Amend.1, 38.3	见附表 1 See Appendix 1	合格 Passed	/	
3	电池组之间过度放 电 Over discharge between the batteries	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.6/Amend.1, 38.3	见附表 1 See Appendix 1	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%				
分包测试情况 Subcontracted test condition		测试项目 Test items	/			
		分包实验室 Subcontracted Laboratory	名称 Name	/	邮编 Post code	/
			地址 Address	/	电话 Tel	/

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附表 1  
Appendix 1

样品状态 Sample status	Pack 1#: 一个功能正常的集成电池组; Pack 1#: one functional assembled battery;	
测试项目名称 Name of test	测试要求 Requirement of test	测试结果 Test result
过度充电 Overcharge	按照制造商规定的充电方法，验证过度充电保护功能。 Verify overcharge protection according to the manufacturer's charging method.	Pass
短路 Short circuits	按照制造商规定的充电方法充满电，使电池组经受总外电阻小于 0.1Ω 的短路条件，验证短路保护功能。 Fully charged according to the charging method specified by the manufacturer. The battery shall be subjected to a short circuit condition with a total external resistance of less than 0.1 ohm. Verify short circuit protection.	Pass
电池组之间过度放电 Over discharge between the batteries	按照制造商规定的放电方法，验证过度放电保护功能。 Verify over discharge protection according to the manufacturer's charging method.	Pass

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## 样品图片

### Photo of the sample

#### 集成电池组/Battery Pack



Model: Battery-Box Premium LVL15.4  
Nominal voltage: 51.2V  
Voltage range: 40~57.6V  
Max.continuous current: 250A  
Battery type: LiFePO<sub>4</sub>  
Usable energy: 15.36kWh  
Operating temp.: -10°C~60°C  
IP Class: IP20

P020T010Z1911230001

MADE IN CHINA

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## 样品图片

### Photo of the sample

#### 电池与电芯/Battery and Cell



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1. 本报告无检验单位公章无效。

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.

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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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The test report is valid for the tested samples only.

7. 检验地址: 广东省广州市科学城南翔支路1号C102房(轻工科学城实验室)

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

电子邮箱(E-mail): [itl@iqtc.cn](mailto:itl@iqtc.cn)

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