

# 广州海关技术中心

GUANGZHOU CUSTOMS DISTRICT TECHNOLOGY CENTER



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国际互认  
检测  
CNAS L2322

地址: 中国广州市天河区珠江新城花城大道66号B座  
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Website: [www.iqtc.cn](http://www.iqtc.cn) Postcode: 510623

No: 01051900006570-1(E)  
Date: 2019-11-14  
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## UN38.3 报告 UN38.3 Test Report

样品名称: 电箱

Sample Name: Pack

委托单位: 宁德时代新能源科技股份有限公司

Applicant: Contemporary Amperex Technology Co., Limited



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## 检测证书 TEST REPORT

样品名称 Sample Name	电箱 Pack		
型号 Model	M52280-E		
内含电池组型号 Batteries Model	1P13S		
委托单位 Applicant	宁德时代新能源科技股份有限公司 Contemporary Amperex Technology Co., Limited		
委托单位地址 Applicant Address	福建省宁德市蕉城区漳湾镇新港路2号 No.2 Xin'gang Road, Zhangwan Town, Jiaochen District, Ningde City, Fujian Province, PRC		
生产单位 Manufacture	宁德时代新能源科技股份有限公司 Contemporary Amperex Technology Co., Limited		
生产单位地址 Manufacture Address	福建省宁德市蕉城区漳湾镇新港路2号 No.2 Xin'gang Road, Zhangwan Town, Jiaochen District, Ningde City, Fujian Province, PRC		
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	2019-10-24	测试日期 Test date	2019-10-24~2019-11-14
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: 01051900005787-1(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.: 01051900005787-1(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	166.4V
额定容量 Rated Capacity	280Ah	总能量 Total Energy	46592Wh
充电限制电压 Limited Charge Voltage	187.2V	标准充电电流 Standard Charge Current	140A
最大充电电流 Maximum Charge Current	280A	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	145.6V
尺寸 Overall Dimensions (W×D×H)	810mm(W)*1152mm(D) *243.4mm(H)	重量 Mass	330kg
样品外观与性状 Appearance & Odor	黑色	电池组组合方式 Battery Pack Combination	4个 1P13S 串联而成 4 1P13S 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.

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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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°C-25°C; 环境湿度: 45%-75% Ambient temperature: 20°C-25°C, 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



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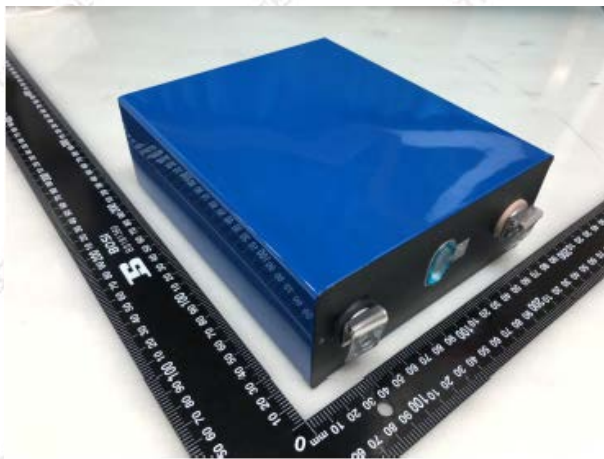
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### 样品图片

### Photo of the sample

#### 电池组与电芯/Batteries 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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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

6. 本报告仅对送检样品负责。

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)

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