



广州海关技术中心

GUANGZHOU CUSTOMS DISTRICT TECHNOLOGY CENTER



中国认可
国际互认
检测
TESTING
CNAS L2322

地址: 中国广东省广州市天河区珠江新城花城大道66号B座 邮编Postcode: 510623

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: 1125004677Y-1

Date: 2025-11-06

Page: 1 of 8

UN38.3 报告 UN38.3 Test Report

样品名称: 磷酸铁锂电池

Sample Name: LITHIUM IRON PHOSPHATE BATTERY

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.



提取码: 673806

验证平台:

<https://css.iqtcnet.cn>

广州海关技术中心
GUANGZHOU CUSTOMS DISTRICT TECHNOLOGY CENTER





广州海关技术中心

GUANGZHOU CUSTOMS DISTRICT TECHNOLOGY CENTER



中国认可
国际互认
检测
TESTING
CNAS L2322

地址: 中国广东省广州市天河区珠江新城花城大道66号B座 邮编Postcode: 510623

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@iqtenet.cn 网址Website: https://www.iqtenet.cn

No: 1125004677Y-1

Date: 2025-11-06

Page: 2 of 8

检测证书

TEST REPORT

样品名称 Sample Name	磷酸铁锂电池 LITHIUM IRON PHOSPHATE BATTERY		
型号 Model	FLA48314-PLUS		
内含电池组型号 Batteries Model	1P8S-314AH		
委托单位 Applicant	广州菲利斯太阳能科技有限公司 Guangzhou Felicity Solar Technology Co., Ltd.		
委托单位地址 Applicant Address	广州市白云区人和镇东华华业路2号 No. 2, Donghua Huaye Road, Renhe Town, Baiyun Area, Guangzhou		
生产单位 Manufacturer	广州菲利斯太阳能科技有限公司 Guangzhou Felicity Solar Technology Co., Ltd.		
生产单位地址 Manufacturer Address	广州市白云区人和镇东华华业路2号 No. 2, Donghua Huaye Road, Renhe Town, Baiyun Area, Guangzhou		
样品外观与性状 Appearance & Odor	白色金属外壳 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.8, 38.3 UNITED NATIONS "Recommendations on the TRANSPORT OF DANGEROUS GOODS", Manual of Tests and Criteria ST/SG/AC.10/11/Rev.8, 38.3		
接样时间 Accepted date	2025-11-05	样品数量 Quantity of sample	1PC
完成日期 Completed date	2025-11-06		
结论 Conclusion	申请人送检的样品, 与原报告 1125001457-1 的样品差异符合联合国《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.8, 38.3, 节相关规定。 The sample's differences submitted by Applicant between this report and original report 1125001457-1 comply with the requirement of UNITED NATIONS "Recommendations on the TRANSPORT OF DANGEROUS GOODS", Manual of Tests and Criteria ST/SG/AC.10/11/Rev.8, 38.3.		

批准

Approver:

邱初瞳

审核

Checker:

叶中群

拟制

Preparer:

赵珊



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

地址: 中国广东省广州市天河区珠江新城花城大道66号B座 邮编Postcode: 510623

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

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

No: 1125004677Y-1

Date: 2025-11-06

Page: 3 of 8

<p>差异说明 The differences</p>	<p>1.本报告变更了最大充放电电流, 样品型号, 铭牌, 委托人声明该变更与原报告中样品的关键材料、产品设计和生产工艺未改变。 This report has changed the sample the maximum charge and discharge current, sample model, nameplate, the applicant declares that the key materials, product design and production process of the samples in this change remain unchanged from those in the original report.</p>
<p>备注 Remark</p>	<p>1.本报告第4页至第5页测试结果为签发于2025年4月18日原报告1125001457-1的测试结果, 被测样品型号为FLB48314TG1。 The test results on pages 4 to 5 of this report are the original report 1125001457-1 issued on 2025-04-18, and the tested sample model is FLB48314TG1. 2.该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: 1125001456-1)。 The assembled batteries were rated a Watt-hour more than 6200Wh and formed by electrically connected modules, the modules 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. (1125001456-1). 3.随附UN38.3试验概要(编号: 1125004677-2)。 Attached with UN38.3 test summary (No.: 1125004677-2).</p>

产品信息:

Product information:

<p>电池类型 Battery type</p>	<p>锂离子电池 Lithium ion battery</p>	<p>标称电压 Nominal Voltage</p>	<p>51.2V</p>
<p>额定容量 Rated Capacity</p>	<p>314Ah</p>	<p>总能量 Total Energy</p>	<p>16kWh</p>
<p>充电限制电压 Limited Charge Voltage</p>	<p>57.6V</p>	<p>标准充电电流 Standard Charge Current</p>	<p>120A</p>
<p>最大充电电流 Maximum Charge Current</p>	<p>160A</p>	<p>标准放电电流 Standard Discharge Current</p>	<p>120A</p>
<p>最大放电电流 Maximum Discharge Current</p>	<p>160A</p>	<p>放电截止电压 Discharge Cut-off Voltage</p>	<p>48V</p>
<p>重量 Mass</p>	<p>121 ±3Kg</p>	<p>物理描述 Physical description</p>	<p>长方体 Cuboid</p>
<p>内含电池模组型号 Batteries Pack Model inside</p>	<p>1P8S-314AH</p>	<p>电池组组合方式 Battery Pack Combination</p>	<p>1P2S</p>
<p>电芯型号 Cell Model</p>	<p>CB75</p>	<p>电芯容量 Cell Capacity</p>	<p>314Ah</p>

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.



广州海关技术中心

GUANGZHOU CUSTOMS DISTRICT TECHNOLOGY CENTER



中国认可
国际互认
检测
TESTING
CNAS L2322

地址: 中国广东省广州市天河区珠江新城花城大道66号B座 邮编Postcode: 510623

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

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

No: 1125004677Y-1

Date: 2025-11-06

Page: 4 of 8

序号 No.	测试项目名称 Name of test	标准要求或标准条款号 Standard 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.8, 38.3.3.1(g)	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.8, 38.3.3.1(g)	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.8, 38.3.3.1(g)	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%			

关

金沙
(1)
06

地址: 中国广东省广州市天河区珠江新城花城大道66号B座 邮编Postcode: 510623

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

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

No: 1125004677Y-1

Date: 2025-11-06

Page: 5 of 8

附表 1
Appendix 1

样品状态 Sample status	一个功能正常的集成电池组; 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 discharging method.	Pass

地址: 中国广东省广州市天河区珠江新城花城大道66号B座 邮编Postcode: 510623

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@iqtenet.cn 网址Website: https://www.iqtenet.cn

No: 1125004677Y-1

Date: 2025-11-06

Page: 6 of 8

样品图片

Photo of the sample

集成电池组/Battery Pack

产品正面外观

Product front appearance



产品侧面外观

Product side appearance



产品侧面外观

Product side appearance



电池铭牌(含 Wh)

Battery nameplate (With Wh)

55.00

 Make the full of power Lithium iron phosphate battery		
Model	FLA48314-PLUS	
Nominal Energy	16kWh	65.00
Nominal Voltage	51.2V	
Nominal Capacity	314Ah	
Maximum Continuous Charge /Discharge Current	160A	
IP Rating of Enclosure	IP65	
Working Temperature Range	Charge: 0°C~+55°C	
	Discharge: -20°C~+55°C	
IFpP/74/176/209/[1P16S]M/-20+50/95		

地址：中国广东省广州市天河区珠江新城花城大道66号B座 邮编Postcode: 510623

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@iqtenet.cn 网址Website: <https://www.iqtenet.cn>

No: 1125004677Y-1

Date: 2025-11-06

Page: 7 of 8

样品图片

Photo of the sample

内含电池模组/Battery module

电池正面外观

Battery front appearance



电池侧面外观

Battery side appearance



电池侧面外观

Battery side appearance





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

地址: 中国广东省广州市天河区珠江新城花城大道66号B座 邮编Postcode: 510623

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@iqtenet.cn 网址Website: https://www.iqtenet.cn

No: 1125004677Y-1

Date: 2025-11-06

Page: 8 of 8

声明 Statement

1. 本报告无检验检测专用章无效。

This report is invalid without the special seal for inspection and testing.

2. 本报告无批准人、审核人及拟制人签名无效。

The test report is invalid without the signatures of Approver, Checker and Preparer.

3. 本报告涂改无效。未经本单位书面同意, 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. 对本报告若有异议, 应于收到报告之日起十五天内向本单位提出。

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

6. 本报告仅对所送检样品负责。

The test report is valid for the tested samples only.

7. 检验检测地址: 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)

Inspection and testing 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 * * * *