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

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**

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

提取码：457420
验证平台：
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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	FLB48230WG1-H
内含电池组型号 Batteries Model	FLB-230AH
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	2025-09-15 / 样品数量 Quantity of sample: 1PC
完成日期 Completed date	2025-09-19
结论 Conclusion	申请人送检的样品，与原报告 1125002424-1 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 1125002424-1 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.

检验检测专用章 (16)

批准 Approver： 审核 Checker： 拟制 Preparer：

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差异说明 The differences	1.本报告变更了电池铭牌，型号，该变更未改变原报告中样品的关键材料，产品设计和生产工艺，生产厂也未改变。 In this report, the battery nameplate, model are changed, the modified item(s) did not be changed the key materials, design and production process of the sample of original report, the production factory has no change.
备注 Remark	1.本报告第 5 页至第 6 页测试结果为签发于 2025 年 08 月 20 日原报告 1125002424-1 的测试结果，被测样品型号为 FLB48230WG1。 The test results on pages 5 to 6 of this report are the original report 1125002424-1issued on 2025-08-20, and the tested sample model is FLB48230WG1. 2.随附 UN38.3 试验概要（编号：1125003791-2）。 Attached with UN38.3 test summary (No.: 1125003791-2).

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产品信息：
Product information:

电池类型 Battery type	锂离子电池 Lithium ion battery	标称电压 Nominal Voltage	51.2V
额定容量 Rated Capacity	230Ah	总能量 Total Energy	11.7kWh
充电限制电压 Limited Charge Voltage	57.6V	标准充电电流 Standard Charge Current	75A
最大持续充电电流 Maximum Continuous Charge Current	150A	标准放电电流 Standard Discharge Current	75A
最大持续放电电流 Maximum Continuous Discharge Current	150A	放电截止电压 Discharge Cut-off Voltage	44.8V
重量 Weight	91kg	物理形状说明 Physical description	长方体 Cuboid
电池组组合方式 Battery Pack Combination	1P 2S	模组数量 Module Quantity	2PCS

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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 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℃-25℃；环境湿度：45%-75% Ambient temperature: 20℃-25℃, Ambient humidity: 45%-75%			

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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

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样品图片
Photo of the sample

集成电池组/Battery Pack

电池正面外观
Battery front appearance



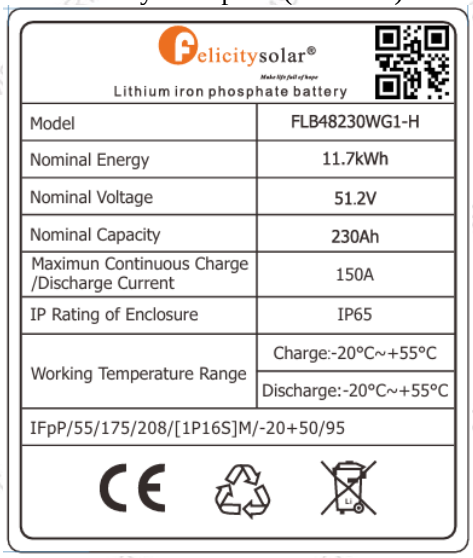
电池侧面外观
Battery side appearance



电池侧面外观
Battery side appearance



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



Felicitysolar®
Lithium iron phosphate battery

Model	FLB48230WG1-H
Nominal Energy	11.7kWh
Nominal Voltage	51.2V
Nominal Capacity	230Ah
Maximun Continuous Charge /Discharge Current	150A
IP Rating of Enclosure	IP65
Working Temperature Range	Charge:-20°C~+55°C
	Discharge:-20°C~+55°C
IFpP/55/175/208/[1P16S]M/-20+50/95	

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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



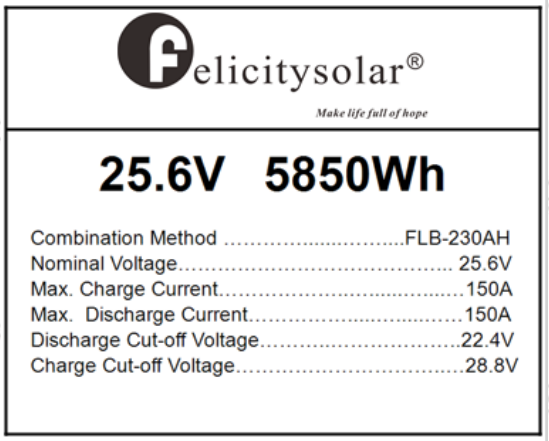
电池侧面外观
Battery side appearance



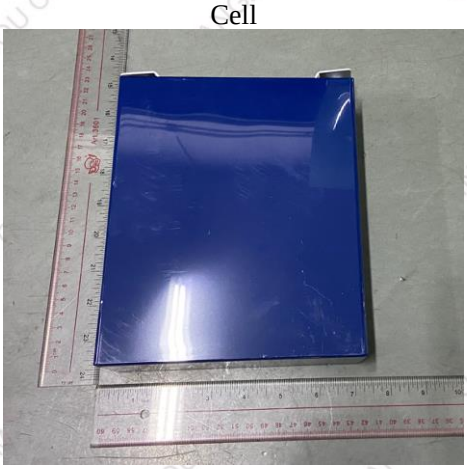
电池侧面外观
Battery side appearance



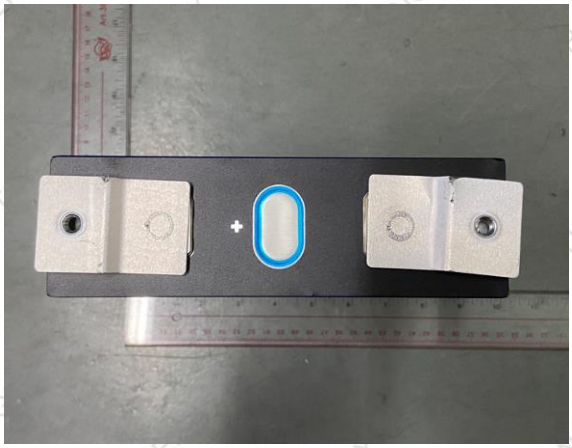
电池铭牌(含 Wh)
Battery nameplate (With Wh)



电芯
Cell



电芯标签
Cell label



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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

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