中国认可
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CNAS IB0396

运输危险性鉴定报告

Hazard Classification and Identification Report for Transport

（海运/by Sea）

危险物品
DANGEROUS GOODS

物品名称:	磷酸铁锂电池 FLH48314UMG1 51.2V 314Ah 16.07kWh
Goods Name	Lithium Iron Phosphate Battery FLH48314UMG1 51.2V 314Ah 16.07kWh
委托单位:	广州菲利斯太阳能科技有限公司
Client	Guangzhou Felicity Solar Technology Co.,Ltd.
报告编号:	DGT2346DL8056508L
Report No.	
生效日期:	2026-06-04
Effective Date	

民航第二研究所有限公司

（原中国民用航空总局第二研究所）

The Second Research Institute of Civil Aviation Co., Ltd.

2026-06-04 第 1 次打印

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地址：成都双流西航港经济开发区腾飞路 765 号

Address: No.765, Tengfei Road, Xihanggang Economic Development Zone, Shuangliu,Chengdu, Sichuan

电话(Tel)：028-64458155 028-64458156

邮箱(Email)：dgtservice@caacsri.com

邮编(Post Code)：610200

报告查询网址：http://service.caacdgt.com

运输危险性鉴定报告
Hazard Classification and Identification Report for Transport

鉴定目的 Inspection Purpose	是否属于海运危险品 Dangerous goods or not restricted		
样品编号 Sample No.	DGT2346DL8056508	**接样日期 Receiving Date**	2026-06-03
鉴定依据 Criteria	国际海事组织《国际海运危险品规则》42-24 2024 版 IMO International Maritime Dangerous Goods(IMDG) Code 42-24 2024 Edition		
样品名称 Sample Name	磷酸铁锂电池 FLH48314UMG1 51.2V 314Ah 16.07kWh Lithium lron Phosphate Battery FLH48314UMG1 51.2V 314Ah 16.07kWh		
委托单位 Client	广州菲利斯太阳能科技有限公司 Guangzhou Felicity Solar Technology Co.,Ltd.		
电池制造单位 Manufacturer	广州菲利斯太阳能科技有限公司 Guangzhou Felicity Solar Technology Co.,Ltd.		
物品信息 Sample Information	电池型号/Model: FLH48314UMG1 51.2V 314Ah 16.07kWh 电池类型/Type: 锂离子电池/Lithium ion battery 包装件内含 1 个本报告所述锂电池。 The package contains 1 Lithium battery(ies) listed in this report.		
鉴定结论 Conclusion	1.危险性识别（Hazards Identification） 危险类别/Class: 9 UN Number: UN 3480 Proper Shipping Name: Lithium ion batteries 2.按照 IMO IMDG Code 办理的类型（Suggestion according to IMO IMDG Code） 该样品满足包装说明 P903 的要求。 The sample meets the requirements of Packing Instruction P903. 3.包装要求(Packing requirements) 按包装说明 P903 要求办理。 The sample is packaged according to the Packing Instruction P903. 鉴定单位盖章(Stamp) 签发日期(Issued Date):2026-06-04		
备注 Comment	包装必须符合 II 级包装性能标准。		

检验: 皮宁达 (Inspected by)　　审核: 李世斌 (Checked by)　　批准: 王章法 (Approved by)

运输危险性鉴定报告
Hazard Classification and Identification Report for Transport

检验结果及其他事项 Inspection results and other information	
1	本报告所述锂电池按照《国际海运危险品规则》42-24 2024 版 2.9.4.5 规定的质量管理体系进行制造。 Lithium batteries listed in this report are manufactured under the quality management program as described in IMO IMDG Code 42-24 2024 Edition 2.9.4.5.
2	本报告所述锂电池已经通过联合国《试验和标准手册》第III部分第 38.3 节的测试。测试摘要详见附件。 Lithium batteries listed in the report are of type proved to meet the requirements of each test of the UN Manual of Tests and Criteria, Part III, subsection 38.3. The test summary is detailed in the attachment. 本报告所述锂电池不属于有安全缺陷或已损坏的电池。 Lithium batteries listed in this report are not damaged or defective batteries. 本报告所述锂电池具有适当的防外部短路措施。 Lithium batteries listed in this report are equipped with an effective means of preventing external short circuits.
3	本报告所述锂电池不属于废旧电池和回收或销毁的电池。 Lithium batteries listed in this report are not waste, shipped for recycling or disposal batteries.
4	本报告所述电池应采取保护措施，以防电池因在容器中的移动或位置变化而造成损坏。 Batteries shall be packed in packagings so that the cells or batteries are protected against damaged that may be caused by the movement of the cell or batteries within the packaging.
5	本报告所述电池的完整包装件必须符合 II 级包装性能标准。 The completed package for the battery meet the Packing Group II performance standards.
6	每个包装件必须耐久清晰的标识第 9 类锂电池或钠离子电池标签。 Each package must be durably and legibly marked with the Class 9-Lithium Battery or Sodium ion Battery label.

附图/Pictures:





Felicitysolar®
Make life full of hope

Lithium Iron Phosphate Battery

Model	FLH48314UMG1
Nominal Voltage	51.2V
Nominal Capacity	314Ah
Nominal Energy	16.07kWh
IP Class	IP20
Protective Class	I
Charging Temperature Range	0~55°C
Discharging Temperature Range	-20~55°C
Max. Continuous Charge/ Discharge Current	240A
Nominal Operating Voltage Range	46.4~57.6V
IFpP74/176/210/[1P16S]E/-20+50/90	





运输信息
Transport Information

件数 Pieces		托运人或托运人代理人声明 本人（本单位）声明：上述运输信息填写真实、准确，鉴定报告已获得委托单位的授权使用，实际运输的货物情况与本鉴定报告一致。如因信息填写错误、实际运输的货物情况与本鉴定报告不一致造成的一切后果，由本人（本单位）承担全部责任，并赔偿对承运人造成的全部损失。 托运人或托运人代理人签字： 盖章：
运单号 Waybill No.		
目的港 Destination		

——以下无正文内容——

附件：

测试摘要
TEST SUMMARY

单位信息 Company information	
委托单位 Consignor	广州菲利斯太阳能科技有限公司/Guangzhou Felicity Solar Technology Co.,Ltd.
电池制造单位 Manufacturer	广州菲利斯太阳能科技有限公司/Guangzhou Felicity Solar Technology Co.,Ltd. 广州市白云区人和镇东华华业路 2 号、4 号、6 号、8 号、10 号、12 号（空港白云）/(Airport Baiyun)No.2,4,6,8,10 and 12 Donghua Huaye Road, Renhe Town, Baiyun District, Guangzhou, Guangdong, P.R.China +86-13790821370 chenyue@felicitysolar.com https://www.felicitysolar.com/
测试单位 Test lab	广东科正技术服务有限公司/KSIGN(Guangdong) Testing Co., Ltd. 广东省东莞市东坑镇杨沙路 8 号 101 室/ Room 101, No.8, Yangsha Road, Dongkeng Town, Dongguan City, Guangdong Province, China 0755-29852678 info@gdksign.cn http: www.gdksign.com

电池信息 Battery information			
名称 Name	/	组成电芯数量 Cell Number	/
电池类型 Type	锂离子电池/Lithium ion battery	型号 Model	FLH48314UMG1
额定能量 Watt-hour rating	16.07kWh	电池质量 Mass	约 124.0kg
物理形状说明 Physical description	长方体 Cuboid		

测试信息 Test information			
测试报告编号 Test Report ID	KS2605S2589B01	测试报告日期 Date of test report	2026-06-02
测试标准 Test standard	联合国《试验和标准手册》第 8 修订版第 38.3 节。 UNITED NATIONS Manual of Tests and Criteria ST/SG/AC.10/11/Rev.8, Section 38.3.		

T.1 高度模拟 Altitude simulation	通过/Pass	T.2 温度试验 Thermal test	通过/Pass
T.3 振动 Vibration	通过/Pass	T.4 冲击 Shock	通过/Pass
T.5 外部短路 External short circuit	通过/Pass	T.6 撞击/挤压 Impact/Crush	通过/Pass
T.7 过度充电 Overcharge	不适用 N/A	T.8 强制放电 Forced discharge	通过/Pass
UN38.3.3.1(f)	不适用 N/A	UN38.3.3.1(g)	不适用 N/A
UN38.3.3.2(d)	不适用 N/A	UN38.3.3.2(e)	不适用 N/A

结论 Conclusion	样品满足联合国《试验和标准手册》第 8 修订版第 38.3 节的测试要求。 The sample meets the requirement of UNITED NATIONS Manual of Tests and Criteria ST/SG/AC.10/11/Rev.8, Section 38.3.		
备注 Remark	电池未安装过度充电保护装置，无需满足过度充电试验的要求。 The battery not equipped with battery overcharge protection is not applicable to overcharge test.		
签名 Signature 职务 Title	王章淮 授权签字人	签发日期 Issued date	2026-06-04

*测试摘要信息由委托客户提供。
The information of Test Summary about UN38.3 is provided by client.

——以下无内容——