



中国认可
国际互认
检验
INSPECTION
CNAS IB0551



Report No.:
报告编号: GDFLS2F5902YL701

Certificate for Safe Transport

of Intended cargo by Road Transport

拟运货物道路运输条件鉴定书

Dangerous Goods 危险货物

Name of Goods 货物名称	Lithium iron phosphate battery FLA48314-EU 磷酸铁锂电池 FLA48314-EU
Applicant 委托单位	Guangzhou Felicity Solar Technology Co., Ltd 广州菲利斯太阳能科技有限公司
Issue Date 签发日期	2025-07-07

Inspected by/检验

Yin Song Wang

Inspection Engineer

Reviewed by/审核

Onan Huang

Audit Engineer

Approved by/批准

Hongbin Xu

Approval Engineer

广州邦禾检测技术有限公司

Guangzhou MCM Certification & Testing Co., Ltd.

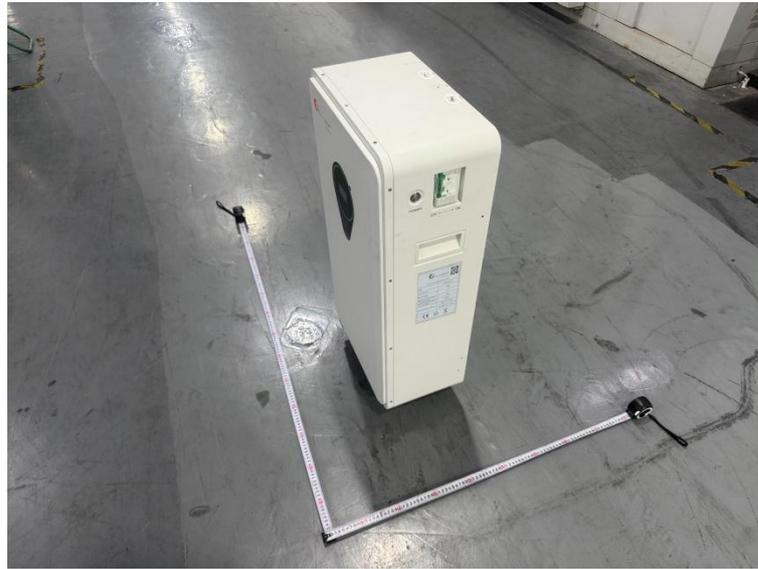
Inspection Conclusion 检验结论				
Name 货物名称	Lithium iron phosphate battery FLA48314-EU 磷酸铁锂电池 FLA48314-EU			
Model 货物型号	FLA48314-EU	Classification 货物类别	Lithium Ion Batteries 锂离子电池	
Rating 额定值	51.2V, 314Ah, 16kWh			
Information 信息	Package G. W. 包装毛重	143.5±3kg	Equipment's Qty. 设备数量	/
	Batteries' N.W. 电池净重	121.5±3kg	Batteries' Qty. 电池数量	1pcs
Applicant 委托单位	Guangzhou Felicity Solar Technology Co., Ltd 广州菲利斯太阳能科技有限公司			
	No. 2, Donghua Huaye Road, Renhe Town, Baiyun Area, Guangzhou 广州市白云区人和镇东华华业路2号			
Manufacturer 制造单位	Guangzhou Felicity Solar Technology Co., Ltd 广州菲利斯太阳能科技有限公司			
	No. 2, Donghua Huaye Road, Renhe Town, Baiyun Area, Guangzhou 广州市白云区人和镇东华华业路2号			
Factory 生产单位	Guangzhou Felicity Solar Technology Co., Ltd 广州菲利斯太阳能科技有限公司			
	No. 2, Donghua Huaye Road, Renhe Town, Baiyun Area, Guangzhou 广州市白云区人和镇东华华业路2号			
Identification 鉴定单位	Guangzhou MCM Certification & Testing Co., Ltd. 广州邦禾检测技术有限公司			
Standard 鉴定标准	ADR 2025: Agreement concerning the International Carriage of Dangerous Goods by Road ADR 2025: 国际公路运输危险货物的协议			
Date 日期	Submission 送检日期	2025-05-09	Appraisal 鉴定日期	2025-07-01
	Validity 有效期	2025-07-07 ~ 2025-12-31		
Conclusion 检验结论	Hazards identification 危险品识别 Dangerous Goods, Class 9 第九类危险货物		Label used 标签使用 	
	UN nos. and proper shipping name UN 编号和运输专用名 UN 3480, LITHIUM ION BATTERIES UN 3480, 锂离子电池			
Comment: 备注:	Packing requirements 包装要求 Packaging in accordance to PI P903 按照包装指引 P903 进行包装		Seal: 检验专用章:	
	/			

ADR 2025: Agreement concerning the International Carriage of Dangerous Goods by Road		
ADR 2025: 国际公路运输危险货物的协议		
Clause- Requirement 条款-要求	Result-Remark 结果-备注	Verdict 判定
2.2.9.1.7 Lithium batteries and sodium ion batteries 2.2.9.1.7 锂电池组和钠离子电池组		P
2.2.9.1.7.1 (a) Each cell or battery is of the type proved to meet the requirements of each test of the Manual of Tests and Criteria, part III, subsection 38.3 2.2.9.1.7.2 (a) 每个型号的电芯或电池满足《试验和标准手册》第 III 部分第 38.3 节每项试验的要求。	The batteries met the test requirements of Section 38.3 of UN Manual of Test and Criteria. See Test report GDFLS2F5902U01 电池符合联合国《试验和标准手册》中 38.3 章的测试要求。见检测报告 GDFLS2F5902U01	P
2.2.9.1.7.1 (b) Each cell and battery incorporates a safety venting device or is designed to preclude a violent rupture under conditions normally incident to transport. 2.2.9.1.7.2 (b) 每一个电芯和电池都装有安全排气装置, 或设计上能预防在正常运输下发生剧烈破裂。	Design/device for safety venting existed in the battery 电池上存在安全排气的设计/装置	P
2.2.9.1.7.1 (c) Each cell and battery is equipped with an effective means of preventing external short circuits. 2.2.9.1.7.2 (c) 每一个电芯和电池都装有防止外部短路的有效装置。	Design/device for preventing external short circuits existed in the battery 电池上存在防止外部短路的设计/装置	P
2.2.9.1.7.1 (d) Each battery containing cells or series of cells connected in parallel is equipped with effective means as necessary to prevent dangerous reverse current flow (e.g. diodes, fuses, etc.). 2.2.9.1.7.2 (d) 每个包含多个并联电芯或电芯块的电池, 都装有防止反向电流造成危险所需的有效装置(例如二极管、保险丝等)。	No parallel structure in the battery. Not applied to this clause 电池内不存在并联结构, 不适用于此条款	N/A
2.2.9.1.7.1 (e) Cells and batteries shall be manufactured under a quality management programme. 2.2.9.1.7.2 (e) 电芯和电池应在质量管理计划下生产。	The customer states that it meets the requirements 客户申明满足要求	P
2.2.9.1.7.1 (f) Lithium batteries, containing both primary lithium metal cells and rechargeable lithium ion cells, that are not designed to be externally charged(see special provision 387 of chapter 3.3) shall meet the conditions. 按设计要求不能外部充电的既含有一次性锂金属电芯又含有可充电锂离子电芯的电池(见第 3.3 章节特殊规定 387), 必须满足此条件。	Not this type 不属于此种类型	N/A
2.2.9.1.7.1 (g) Except for button cells installed in equipment (including circuit boards), manufactures and subsequent distributors of cells or batteries manufactured after 30 June 2003 shall make available the test summary as specified in the Manual of Tests and Criteria, part III, subsection 38.3, paragraph 38.3.5. 2.2.9.1.7.2 (f) 除安装在设备(包括电路板)中的纽扣电池外, 2003 年 6 月 30 日之后制造的电芯或电池的制造商和后续分销商必须提供《试验和标准手册》第 III 部分第 38.3 小节第 38.3.5 段规定的测试概要。	Test summary has been available on request. See Test summary GDFLS2F5902G01 测试概要按要求提供。见检测报告 GDFLS2F5902G01	P
Special Provision 230 特殊条款 230		P
Lithium cells and batteries may be transported under this entry if they meet the provisions of 2.2.9.1.7.1 锂电芯和电池如符合 2.2.9.1.7.1 的规定, 可按本条目运输。	See table 2.2.9.1.7 above 见上表 2.2.9.1.7	P
Sodium ion cells and batteries may be transported under this entry if they meet the provisions of 2.2.9.1.7.2 钠离子电芯和电池如符合 2.2.9.1.7.2 的规定, 可按本条目运输。	Not applicable 不适用	N/A
Special Provision 348 特殊条款 348		P

ADR 2025: Agreement concerning the International Carriage of Dangerous Goods by Road			
ADR 2025: 国际公路运输危险货物的协议			
Clause- Requirement 条款-要求		Result-Remark 结果-备注	Verdict 判定
	Lithium ion batteries manufactured after 31 December 2011 shall be marked with the Watt hour rating on the outer case. 2011年12月31日后生产的锂离子电池组, 应该在外壳上标记瓦特-小时的额定值。	The watt hour rating 16kWh has been marked on the outer case 瓦时数 16kWh 已标记在外壳上	P
	Sodium ion batteries manufactured after 31 December 2025 shall be marked with the Watt hour rating on the outer case. 2025年12月31日后生产的钠离子电池组, 应该在外壳上标记瓦特-小时的额定值。	Not applicable 不适用	N/A
Packing Instruction P903 包装指引 P903			P
(1)	For cells and batteries 对于电芯和电池	Complied 满足要求	P
	(Applicable packing cases 适用的包装箱) Drums 桶 (1A2, 1B2, 1N2, 1H2, 1D, 1G); Boxes 箱 (4A, 4B, 4N, 4C1, 4C2, 4D, 4F, 4G, 4H1, 4H2); Jerricans 罐 (3A2, 3B2, 3H2).	4D Plywood box used 使用 4D 胶合板箱	P
	Cells or batteries packed in packagings shall be protected against damage that may be caused by the movement or displacement of the cells or batteries within the packaging. 装在包装中的电芯或电池应采取保护措施, 防止电芯或电池因在包装中移动或位置变化而造成损坏。	Equivalent protection existed 已有相当防护措施	P
	Packagings shall conform to the packing group II performance level. 包装应符合包装类别 II 级的性能水平。	Complied 符合要求	P
(2)	In addition for cells or batteries with a gross mass of 12 kg or more employing a strong, impact resistant outer casing, and, assemblies of such cells or batteries 此外, 对于总质量 12kg 或以上的采用坚固、耐碰撞外壳的电芯或电池, 以及这类电芯或电池的装配	/	N/A
	(a) Strong outer packagings 坚固的外包装 (b) Protective enclosures (e.g. fully enclosed or wooden slatted crates); 保护外罩 (例完全密封的或木制的板条箱) (c) Pallets or other handling devices. 货板或其他搬运装置	/	N/A
	Cells or batteries shall be secured to prevent inadvertent movement, and the terminals shall not support the weight of other superimposed elements. 电芯或电池应加以固定, 以防意外移动, 电极不得承受其他叠放物品的重量	/	N/A
	Packagings need not meet the requirements of 4.1.1.3. 包装无须符合 4.1.1.3 的要求。		—
(3)	For cells or batteries packed with equipment 对于与设备一同打包的电芯或电池	Not this transportation state 非此运输状态	N/A
(4)	For cells or batteries contained in equipment: 对于安装在设备上的电芯或电池	Not this transportation state 非此运输状态	N/A
(5)	For packaging containing both cells or batteries packed with equipment and contained in equipment 对于含有或与设备一同打包或安装在设备上的电芯或电池	Not this transportation state 非此运输状态	N/A
	Additional requirement 附加要求 Cells or batteries shall be protected against short circuit. 电芯或电池应该加以保护免受短路。	Measures against short circuits existed 已存在防止短路措施	P
Packing Instruction LP903 包装指引 LP903			N/A

Photos of the Battery
电池照片

Battery: FLA48314-EU, 51.2V, 314Ah, 16kWh





Make life full of hope



 Lithium iron phosphate battery

Model	FLA48314-EU
Nominal Energy	16kWh
Nominal Voltage	51.2V
Nominal Capacity	314Ah
Maximun Continuous Charge /Discharge Current	160A
Maximun Continuous Charge /Discharge Power	8000W
Working Temperature Range	Charge :0°C~+55°C
	Discharge :-20°C~+55°C
IFpP/74/176/209/[1P16S]M/-20+50/95	





Photos of the Package
包装件照片



-- End of Report --

Important Note 注意事项

1. This test report is invalid without the special testing seal and cross-page seal of Guangzhou MCM Certification & Testing Co., Ltd.
本检测报告无广州邦禾检测技术有限公司检测专用章、骑缝章无效。
2. Nobody is allowed to partly photocopy this test report without written permission of Guangzhou MCM Certification & Testing Co., Ltd.
未经广州邦禾检测技术有限公司书面同意，不得部分复制本检测报告。
3. This test report is invalid without the signatures of Approver, Reviewer and Tester.
本检测报告无批准人、审核人及检测员签名无效。
4. This test report is invalid if altered.
本检测报告涂改无效。
5. Objection to this test report must be submitted to Guangzhou MCM Certification & Testing Co., Ltd. within 15 days after the publication of the report.
若对此检测报告有异议，必须在报告发布之日起十五天内向广州邦禾检测技术有限公司提出。
6. This test report is only responsible for the received samples.
本检测报告仅对收到的样品负责。
7. We are not responsible for the authenticity of information (including sample information) provided by customers.
客户提供的信息（包括样品信息），本公司不对其真实性负责。
8. As for the test results, "N/A" means "Not applicable", "P" means "Pass" and "F" means "Fail".
本检测结果判定中"N/A"表示“不适用”，"P"表示“通过”，"F"表示“不通过”。

Identification 货物鉴定单位	Guangzhou MCM Certification & Testing Co., Ltd. 广州邦禾检测技术有限公司 Building 2 No. 45 Zhong Er Section of Shiguang Road, Zhongcun Street, Panyu District, Guangzhou City, Guangdong Province, China. 中国 广东省广州市番禺区钟村街市广路钟二路段 45 号 2 栋
Tel 电话:	+86-20-3477 7662 或 0086-020-3477 7662
Email 电子邮箱:	service@mcmtek.com
Web 公司网址:	https://www.mcmtek.com