中国认可
国际互认
检验
INSPECTION
CNAS IB0551

Report No.:
报告编号：FLSJG2G3903YL501-1

Certificate Report for Safe Transport

of Goods by Road Transport

货物道路运输条件鉴定报告

Dangerous Goods 危险货物

Name of Goods **货物名称**	Lithium iron phosphate battery FLA48100 磷酸铁锂电池 FLA48100
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**	2026-05-09

Inspected by/检验	Reviewed by/审核	Approved by/批准
Guangwei Li	TangHongcheng	Hongbin Ku
Inspection Engineer	Audit Engineer	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 FLA48100 磷酸铁锂电池 FLA48100		
Model 货物型号	FLA48100	Classification 货物类别	Lithium Ion Batteries 锂离子电池
Rating 额定值	51.2V, 100Ah, 5.12kWh		
Information 信息	Package G. W. 包装毛重 51kg±3%	Equipment's Qty. 设备数量	/
	Batteries' N.W. 电池净重 45kg±3%	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		
	(Airport Baiyun)No.2, 4, 6, 8, 10 and 12 Donghua Huaye Road, Renhe Town, Baiyun District, Guangzhou, Guangdong, P.R. China 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)		
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		
	(Airport Baiyun)No.2, 4, 6, 8, 10 and 12 Donghua Huaye Road, Renhe Town, Baiyun District, Guangzhou, Guangdong, P.R. China 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)		
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. 1 Hard Technology Industrial Park, Jianggao Town, Baiyun District, Guangzhou, Guangdong, P.R. China 广州市白云区江高镇白云 1 号硬科技产业园		
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 2026-03-12	Appraisal 鉴定日期	2026-04-15
	Validity 有效期 2026-05-09 ～ 2026-12-31		
Conclusion 检验结论	**Hazards identification** **危险品识别** Dangerous Goods, Class 9 第九类危险货物 **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 **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：检验专用章	**Label used** **标签使用**  	
Comment: 备注：	修订：取代原报告 FLSJG2G3903YL501，2026-04-23 签发，更新制造单位地址信息。		

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) **2.2.9.1.7.2 (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 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 **FLSJG2G3903U01-1** 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 **FLSJG2G3903U01-1**	P
2.2.9.1.7.1 (b) **2.2.9.1.7.2 (b)**	Each cell and battery incorporates a safety venting device or is designed to preclude a violent rupture under conditions normally incident to transport. 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。	Complied 符合要求	P
2.2.9.1.7.1 (c) **2.2.9.1.7.2 (c)**	Each cell and battery is equipped with an effective means of preventing external short circuits. 每一个电芯和电池都装有防止外部短路的有效装置。	Complied 符合要求	P
2.2.9.1.7.1 (d) **2.2.9.1.7.2 (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.). 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）。	Complied 符合要求	P
2.2.9.1.7.1 (e) **2.2.9.1.7.2 (e)**	Cells and batteries shall be manufactured under a quality management programme. 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。	/	N/A
2.2.9.1.7.1 (g) **2.2.9.1.7.2 (f)**	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. 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 **FLSJG2G3903G01-1** 测试概要按要求提供。见检测报告 **FLSJG2G3903G01-1**	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。	/	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 has been marked on the outer case 瓦时数已标记在外壳上	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。	/	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).	4G Fiberboard box used 使用 4G 纤维板箱	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. 包装应该符合包装类别 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: FLA48100, 51.2V, 100Ah, 5.12kWh





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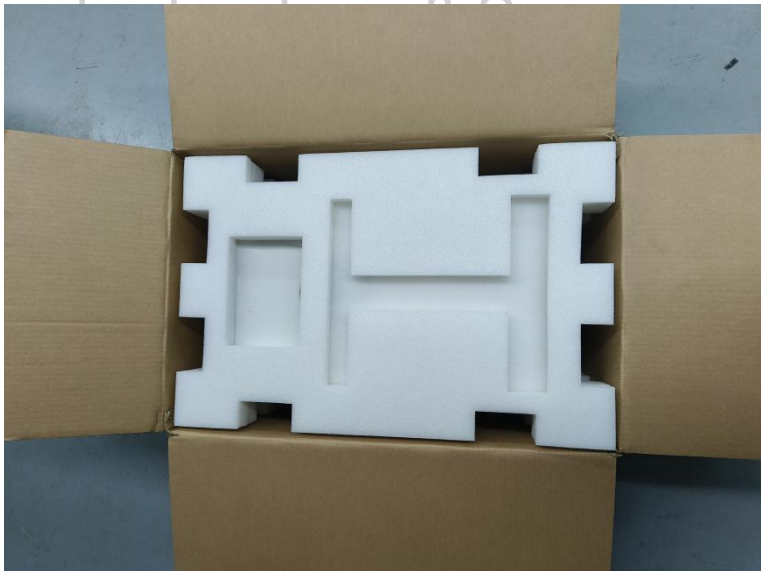
Lithium iron phosphate battery

Model	FLA48100
Nominal Voltage	51.2V
Energy	5.12kWh
Operating Voltage	44.8-57.6V
Recommend Charge/ Discharge Current	≤100A
Recommend Charge/ Discharge Power	≤5,000W
Scalability	Up to 15 units in parallel
Communication	RS485 / CAN
Cycle Life	≥6,000@25°C,80%DOD
Charging Temperature Range	0-55°C
Discharging Temperature Range	-20-55°C

Photos of the Package
包装件照片







-- End of Report --

Important Note
注意事项

1. This inspection report is invalid without special inspection seal and cross-page seal of Guangzhou MCM Certification & Testing Co., Ltd.
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4. This inspection report is invalid if altered.
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若对检验报告有异议，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 report is only responsible for the received samples.
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7. We are not responsible for the authenticity of information (including sample information) provided by customers.
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8. As for the inspection results, “N/A” means “Not applicable”, “P” means “Pass” and “F” means “Fail”.
本检验结果中“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
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