



中国认可
国际互认
检验
INSPECTION
CNAS IB0551



Report No.:
报告编号: GDFLS2EBH03YL5

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 FLA48250

磷酸铁锂电池 FLA48250

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

2025-01-02

Inspected by/检验

Yinsong wang
Inspection Engineer

Reviewed by/审核

Juan Huang
Audit Engineer

Approved by/批准

Xu Hongbin
Approval Engineer

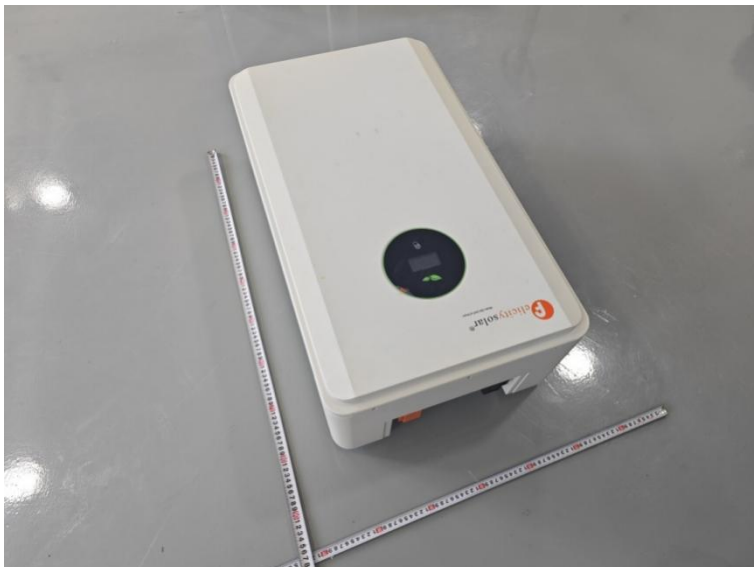
广州邦禾检测技术有限公司

Guangzhou MCM Certification & Testing Co., Ltd.

Inspection Conclusion 检验结论				
Name 货物名称	Lithium iron phosphate battery FLA48250 磷酸铁锂电池 FLA48250			
Model 货物型号	FLA48250	Classification 货物类别	Lithium Ion Batteries 锂离子电池	
Rating 额定值	51.2V, 250Ah, 12.5kWh			
Information 信息	Package G. W. 包装毛重	115±2kg	Equipment's Qty. 设备数量	/
	Batteries' N.W. 电池净重	94±2kg	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	2024-12-18	Appraisal 鉴定日期	2024-12-23
	Validity 有效期	2025-01-02 ~ 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 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		Label used 标签使用 	
	Seal: 检验专用章:			
Comment: 备注:	/			

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	The batteries met the test requirements of Section 38.3 of UN Manual of Test and Criteria. See Test report GDFLS20240510U01	P
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。	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 GDFLS20240510U01	
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.	Design/device for safety venting existed in the cell/battery	P
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。	电芯/电池上存在安全排气的设计/装置	
2.2.9.1.7.1 (c)	Each cell and battery is equipped with an effective means of preventing external short circuits.	Design/device for preventing external short circuits existed in the cell/battery	P
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。	电芯/电池上存在防止外部短路的设计/装置	
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.).	Design/device for preventing dangerous reverse current flow existed in the battery	P
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)。	电池上存在防止危险反向电流的设计/装置	
2.2.9.1.7.1 (e)	Cells and batteries shall be manufactured under a quality management programme.	The customer states that it meets the requirements	P
2.2.9.1.7.2 (e)	电芯和电池应在质量管理计划下生产。	客户申明满足要求	
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.	Not this type	N/A
	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。	不属于此种类型	
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.	Test summary has been available on request. See Test summary GDFLS20240510UG01	P
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。	测试概要按要求提供。见检测报告 GDFLS20240510UG01	
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	See table 2.2.9.1.7 above	P
	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。	见上表 2.2.9.1.7	
	Sodium ion cells and batteries may be transported under this entry if they meet the provisions of 2.2.9.1.7.2	Not applicable	N/A
	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。	不适用	

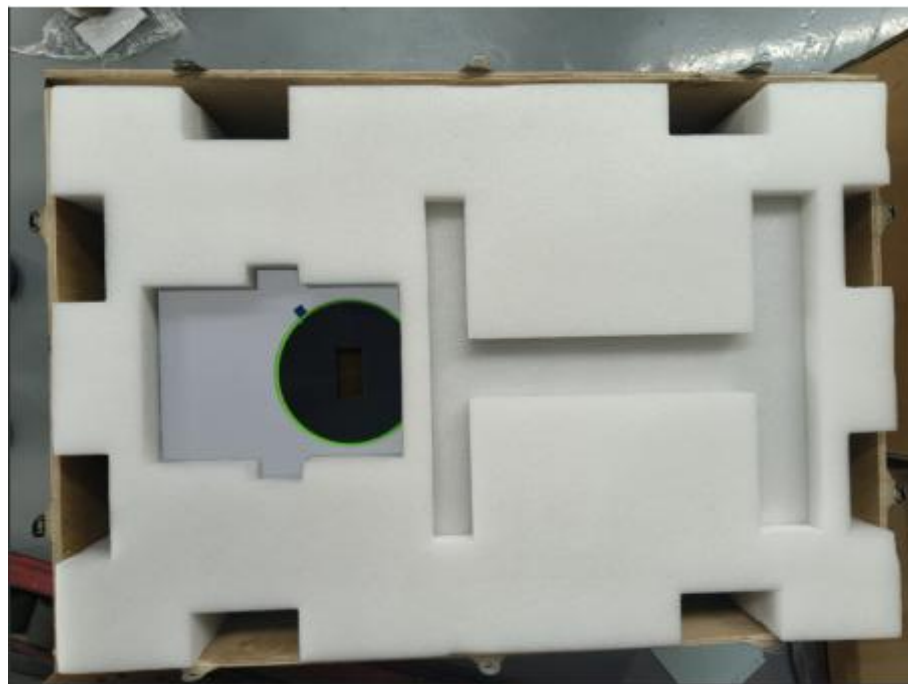
ADR 2025: Agreement concerning the International Carriage of Dangerous Goods by Road ADR 2025: 国际公路运输危险货物的协议			
Clause- Requirement 条款-要求		Result-Remark 结果-备注	Verdict 判定
Special Provision 348 特殊条款 348			N/A
	Lithium ion batteries manufactured after 31 December 2011 shall be marked with the Watt hour 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 12.5kWh has been marked on the outer case. 瓦时数 12.5kWh 已标明在外壳上	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	Not applicable 不适用	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	Not applicable 不适用	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	Not applicable 不适用	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 (FLA48250, 51.2V, 250Ah, 12.5kWh)***Make life full of hope**Lithium iron phosphate battery*

Model	FLA48250
Nominal Voltage	51.2V
Energy	12.5kWh
Operating Voltage	44.8-57.6V
Recommend Charge/ Discharge Current	≤150A
Recommend Charge/ Discharge Power	≤7500W
Scalability	Up to 15 units in parallel
Communication	RS485 / CAN
Cycle Life	≥6000@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

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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.
本报告仅对来样负责。
7. 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

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>