



中国认可
国际互认
检验
INSPECTION
CNAS IB0551



Report No.:
报告编号: HNHY20221221M504

Certificate for Safe Transport of Goods by Sea

货物海运条件鉴定书

Non-restricted Goods 非限制性货物

Name of Goods 货物名称	Cylindrical Lithium-ion Rechargeable Cell: IMR18650-1500mAh 圆柱形锂离子可充电电池: IMR18650-1500mAh
Applicant 委托单位	Henan Hengyi lithium energy technology Co., Ltd 河南恒一锂电科技有限公司
Issue Date 签发日期	2022-12-30

Inspected by/检验 <i>Guangwei Li</i> Inspection Engineer	Reviewed by/审核 <i>Albert Yip</i> Audit Engineer	Approved by/批准 <i>Hongbin Xu</i> Approval Engineer
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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 of Goods 货物名称	Cylindrical Lithium-ion Rechargeable Cell: IMR18650-1500mAh 圆柱形锂离子可充电电池: IMR18650-1500mAh			
Battery's type 电池类型	<input checked="" type="checkbox"/> Lithium ion batteries 锂离子电池	<input type="checkbox"/> Lithium metal batteries 锂金属电池		
Model & parameters 电池型号参数	IMR18650-1500mAh, 3.7V, 1500mAh, 5.55Wh			
Information of Package 包装件信息	Package G.W. 包装毛重	8.70kg	Equipment's Qty. 设备数量	/
	Batteries' N.W. 电池净重	7.68 kg	Batteries' Qty. 电池数量	200pcs
Applicant 委托单位	Henan Hengyi lithium energy technology Co., Ltd 河南恒一锂电科技有限公司			
	Building 3, Xinhua Industrial Park, Longmen Avenue, Xinhua District, Pingdingshan City, Henan, P.R.China 中国河南平顶山市新华区龙门大道新华区产业园 3 号楼			
Manufacturer 电池制造单位	Henan Hengyi lithium energy technology Co., Ltd 河南恒一锂电科技有限公司			
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Factory 电池生产单位	Henan Hengyi lithium energy technology Co., Ltd 河南恒一锂电科技有限公司			
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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			
Standard 鉴定标准	<i>International Maritime Dangerous Goods Code</i> (40-20 Edition) 《国际海上危险货物运输规则》(40-20)			
Date 日期	Submission 送检日期	2022-12-21	Appraisal 鉴定日期	2022-12-29
	Validity 有效期	2023-01-01 ~ 2023-12-31		
Inspection Conclusion: 检验结论:	<p>(1). Hazards identification 危险品识别 Non-restricted Goods 非限制性货物</p> <p>(2). Operational mode according to IMO IMDG Code 按 IMO IMDG 操作方式 The goods can be shipped as Non-restricted Goods according to special provision 188. 根据特殊条款 188, 货物可以作为非限制性货物运输。</p> <p>(3). Packing requirements 包装要求 The goods should be packaged according to the corresponding packaging requirement of special provision 188. 货物应按特殊条款 188 的相应包装要求进行包装。</p> <p style="text-align: right;">Seal: 检验专用章:</p>			
Comment: 备注:	/			

International Maritime Dangerous Goods Code (40-20 Edition) 《国际海上危险货物运输规则》(40-20)			
Clause- Requirement 条款-要求	Result-Remark 结果-备注	Verdict 判定	
Special Provision 188 特殊条款 188		P	
Cells and batteries are not subject to other provisions of this Code if they meet the following: 交付运输的电芯和电池, 如满足下列要求, 即不受本规章其他要求限制		—	
1	For a lithium metal or lithium alloy cell, the lithium content is not more than 1 g 对于锂金属电芯或锂合金电芯, 锂含量不超过 1g	Not applicable 不适用	N/A
	For a lithium-ion cell, the watt-hour rating is not more than 20 Wh 对于锂离子电芯, 瓦特-小时的额定值不超过 20Wh	5.55Wh	P
	For a lithium metal or lithium alloy battery, the aggregate lithium content is not more than 2 g 对于锂金属电池或锂合金电池, 合计锂含量不超过 2g	Not applicable 不适用	N/A
2	For a lithium-ion battery, the watt-hour rating is not more than 100 Wh. Lithium-ion batteries subject to this provision shall be marked with the watt-hour rating on the outer case, except those manufactured before 1 January 2009; 对于锂离子电池, 瓦特-小时的额定值不超过 100Wh。受本规定限制的锂离子电池, 须在外壳上标明瓦特-小时的额定值, 2009年1月1日前制造的锂离子电池除外。	Not applicable 不适用	N/A
	Each cell or battery meets the provisions of 2.9.4.1, 2.9.4.5, 2.9.4.6 if applicable, and 2.9.4.7; 每个电芯或电池均符合 2.9.4.1, 2.9.4.5, 2.9.4.6 (如适用) 和 2.9.4.7	Met the provision 满足要求	P
3	—2.9.4.1 Tests of the transport of lithium batteries (关于锂电池的运输测试)	Report No./报告编号: HNHY20220607U05	P
	—2.9.4.5 Production Quality Control (关于生产的质量控制)	Met the provision 满足要求	P
	—2.9.4.6 Requirements of lithium batteries consisted of lithium primary cells and lithium rechargeable cells (关于由锂原电芯和可充锂电芯组成的锂电池的要求)	Not applicable 不适用	N/A
	—2.9.4.7 Test summary of lithium batteries (关于锂电池的测试概要)	Report No./报告编号: HNHY20220607UG05	P
4	Cells and batteries, except when installed in equipment, shall be packed in inner packagings that completely enclose the cell or battery. Cells and batteries shall be protected so as to prevent short circuits. This includes protection against contact with electrically conductive material within the same packaging that could lead to a short circuit. 电芯和电池, 除安装在设备上之外, 应该用内包装予以打包, 将电芯和电池完全包裹。应保护电芯和电池防止发生短路。这包括防止在同一包装件内与导电材料接触, 导致发生短路。	Equivalent protection existed 已有相当防护措施	P

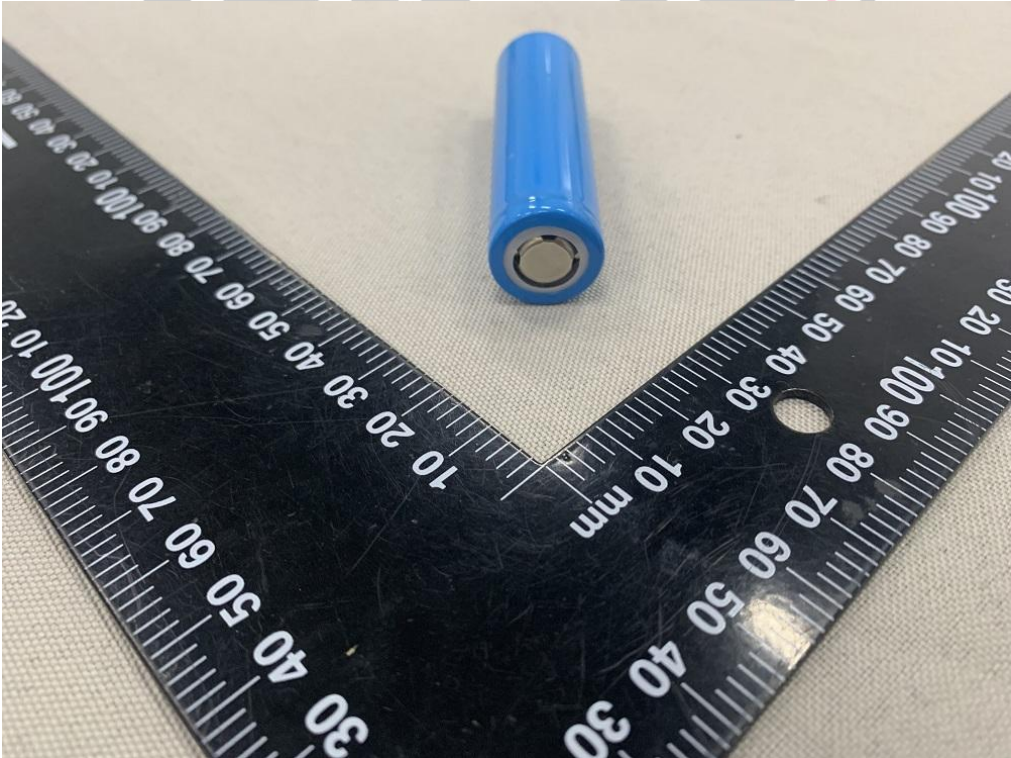
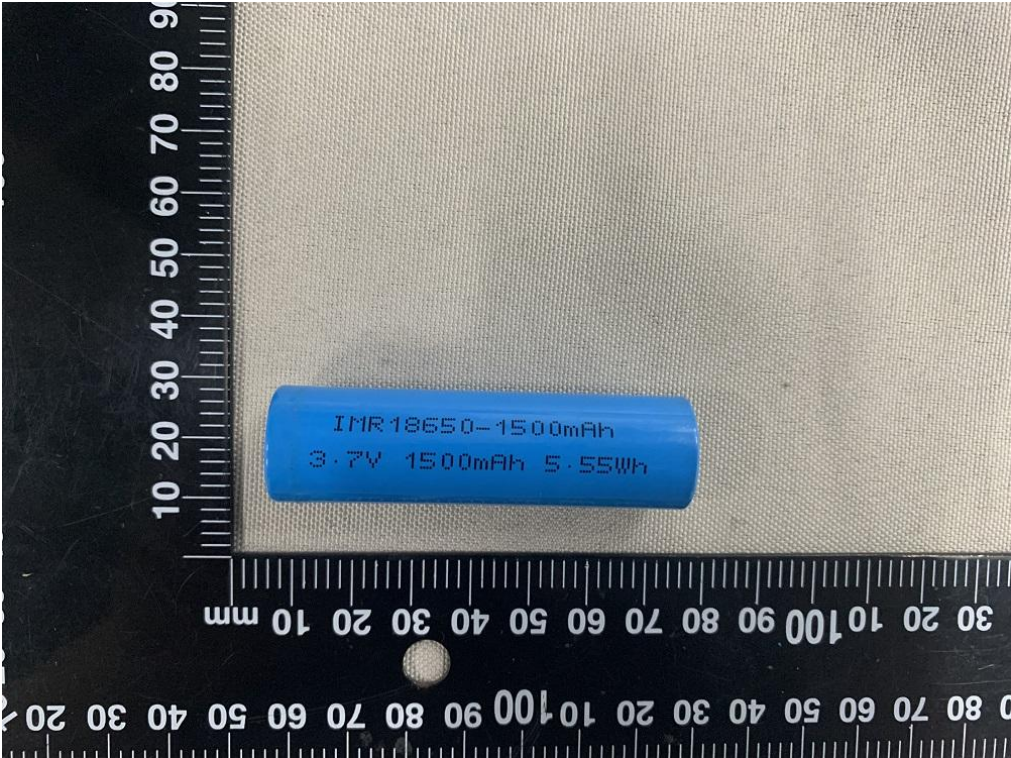
International Maritime Dangerous Goods Code (40-20 Edition) 《国际海上危险货物运输规则》(40-20)		
Clause- Requirement 条款-要求	Result-Remark 结果-备注	Verdict 判定
<p>The inner packagings shall be packed in strong outer packagings which conform to the provisions of 4.1.1.1, 4.1.1.2, and 4.1.1.5;</p> <p>内包装应打包在符合 4.1.1.1, 4.1.1.2 和 4.1.1.5 规定的坚实外包装内</p>	<p>Met the provision</p> <p>满足要求</p>	P
<p>Cells and batteries when installed in equipment shall be protected from damage and short circuit, and the equipment shall be equipped with an effective means of preventing accidental activation.</p> <p>安装在设备上的电芯和电池, 应防止受到损害和发生短路, 设备应配备防止发生意外启动的有效装置。</p>	<p>Batteries transported separated from equipment</p> <p>电池单独运输</p>	N/A
<p>5</p> <p>When batteries are installed in equipment, the equipment shall be packed in strong outer packagings constructed of suitable material of adequate strength and design in relation to the packaging's capacity and its intended use unless the battery is afforded equivalent protection by the equipment in which it is contained;</p> <p>当电池安装在设备上时, 设备应该用坚实的外包装予以打包。包装的制造应采用足够强度的适当材料, 设计也与包装的容量和用途相符, 除非安装电池的设备对之已有相当的保护</p>	<p>Not applicable</p> <p>不适用</p>	N/A
<p>Each package shall be marked with the appropriate lithium battery marking, as illustrated in 5.2.1.10.</p> <p>每个包装件都应按照 5.2.1.10 所示, 标有相应的锂电池标签</p>	<p>See the package photo of page 7</p> <p>见第 7 页的包装照片</p>	P
<p>6</p> <p>This requirement does not apply to:</p> <p>.1 packages containing only button cell batteries installed in equipment (including circuit boards); or</p> <p>.2 packages containing no more than four cells or two batteries installed in equipment, where there are not more than two packages in the consignment.</p> <p>这项要求不适用于以下情况:</p> <p>.1 包装件内只有安装在设备上(包括电路板上)的纽扣电池; 或</p> <p>.2 包装件内只有不超过 4 个安装在设备上的电芯或 2 个电池, 每批货物的包装件不超过 2 个</p>	<p>Not applicable</p> <p>不适用</p>	N/A

International Maritime Dangerous Goods Code (40-20 Edition) 《国际海上危险货物运输规则》(40-20)			
Clause- Requirement 条款-要求		Result-Remark 结果-备注	Verdict 判定
7	<p>Except when cells or batteries are installed in equipment, each package shall be capable of withstanding a 1.2 m drop test in any orientation without damage to cells or batteries contained therein, without shifting of the contents so as to allow battery to battery (or cell to cell) contact and without release of contents; and</p> <p>除安装在设备上的电芯或电池外，每个包装件易任何方向进行 1.2 米跌落试验都能够不使其中所装的电芯或电池受损，不造成内装物移动，以致电池与电池（或电芯与电芯）互相接触，并且没有内装物释出；和</p>	Report No./报告编号: HNHY20220607D05	P
8	<p>Except when cells or batteries are installed in or packed with equipment, packages shall not exceed 30 kg gross mass.</p> <p>除非电芯或电池安装在设备上或与设备打包在一起，否则包装件总重不得超过 30kg.</p>	Batteries transported separated from equipment, and Gross mass: 8.70kg 电池单独运输，毛重：8.70kg	P



Photos of the Cell
电芯照片

Cell (IMR18650-1500mAh, 3.7V, 1500mAh, 5.55Wh)



Photos of the Packages and Markings
包装及标识照片



-- End of Report --

Important Note
注意事项

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6. This report is only responsible for the received samples.
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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"。

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