安全数据表
Safety Data Sheet

报告编号Report No.: S03A26091148S00101

样品名称： Sample Name:	锂离子电池 lithium-ion battery
样品型号： Sample Model:	24V10AH
委托单位： Applicant:	金华市泽瑞新能源科技有限公司 Jin Hua Ze Rui New Energy Technology Co., ltd
签发日期： Issue Date:	2026-10-14

广东储能检测技术有限公司

Guangdong ESTL Technology Co., Ltd.

第一部分 化学品及企业标识 Section 1 Chemical Product and Company Identification	
样品名称 Sample Name	锂离子电池 lithium-ion battery
样品型号 Sample Model	24V10AH
规格 Rating	24V 10Ah 240Wh
测试实验室 Testing laboratory	广东储能检测技术有限公司 Guangdong ESTL Technology Co., Ltd.
测试地址 Testing Address	广东省东莞市松山湖园区总部二路9号1栋1单元101、201-208 室、4单元201室和11号1栋2单元101室。 Room 101, 201-208, Unit 1, & Room 201, Unit 4, Building 1, No.9/Room 101, Unit 2, Building 1, No.11, Zongbu 2nd Road, Songshanhu Park, Dongguan, Guangdong, China
委托单位 Applicant	金华市泽瑞新能源科技有限公司 Jin Hua Ze Rui New Energy Technology Co., ltd
委托单位地址 Applicant Address	浙江省金华市永康市东城街道大园童小微企业园2号厂房5楼 5F, Workshop No. 2, Dayuan Tong Small and Micro Enterprise Park, Dongcheng Street, Yongkang City, Jinhua City, Zhejiang Province,China
生产单位 Manufacturer	金华市泽瑞新能源科技有限公司 Jin Hua Ze Rui New Energy Technology Co., ltd
生产单位地址 Manufacturer Address	浙江省金华市永康市东城街道大园童小微企业园2号厂房5楼 5F, Workshop No. 2, Dayuan Tong Small and Micro Enterprise Park, Dongcheng Street, Yongkang City, Jinhua City, Zhejiang Province,China
鉴定依据 Inspection according to	依据GB/T16483-2008&ISO11014:2009编制 According to GB/T16483-2008&ISO11014:2009
紧急联系电话 Emergency telephone call	13798245432
接样日期 Date of sample receipt	2026-09-28
生效时间 Effective Date	2026-10-14

检测 Tested by　　审核 Reviewed by　　批准 Approved by

广东储能检测技术有限公司 报告专用章 Special Seal for Report Guangdong ESTL Technology Co., Ltd. 4419820021070

第二部分 危险性鉴定
Section 2 Hazards Identification

危险性类别 Classification of Danger	见第十四部分 see section 14
侵入途径 Invasion Route:	眼睛、皮肤、食入 eyes, skin contact, ingestion
健康危害 Health Hazard	正常条件下根据制造商的说明使用锂离子电池不会产生危害。使用不当的情况下，有破裂、火灾、热、内部成分的漏出的风险，并可能造成意外损失。使用不当的行为包括但不限于下列情况：长时间充电、短路，投入火灾，硬物撞击、尖物刺破、破碎、破裂。 the lithium ion batteries are not hazardous when used according to the instructions of manufacturer under normal conditions. In case of abuse, there's risk of rupture, fire, heat, leakage of internal components, with could cause casualty loss. Abuses include but not limited to the following cases: charged for long time, short circuited, put into fire, whacked with hard object, punctured with acute object, crushed, and broken.
环境危害 Environmental Hazard	未见报道 Not reported
燃爆危险 The Danger of Burning and Exploding	高温或短路条件下可能会引发火灾或爆炸 May occur fire or explosion in high temperature or short circuit.

第三部分 成分/组成信息
Section 3 Composition/Information on Ingredient

危险成分（化学名称） Hazardous Ingredients (Chemical Name)	含量及含量百分比(%) Concentration or concentration ranges (%)	CAS编号 CAS Number
镍钴锰酸锂 Lithium Nickel Cobalt Manganese Oxide	38.86	182442-95-1
石墨/Graphite	18.20	7782-42-5
铜/Copper	1.68	7440-50-8
碳酸乙烯酯/EC	6.86	96-49-1
碳酸甲乙酯/EMC	1.14	623-53-0
碳酸二乙酯/DEC	9.15	105-58-8
碳酸丙烯酯/PC	2.86	108-32-7
六氟磷酸锂/LiPF6	2.29	21324-40-3
聚丙烯/Polypropylene	4.20	9003-07-0
铝/Aluminum	14.76	7429-90-5

第四部分 急救措施
Section 4 First aid measures

正常环境条件下，眼睛和皮肤接触锂离子电池不会产生危害。在内部有害物质漏出的情况，

如果身体部位接触到这些物质，应采取以下措施：

The lithium ion batteries are not hazardous with eye and skin contact under normal

circumstance. In case of internal hazardous substance leaking an hazardous substance,

following measures should be taken if body parts contact with these substance

眼睛接触：提起眼皮用大量水冲洗眼睛至少15分钟，立即就医。

After Eye Contact：Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

皮肤接触：脱掉被污染的衣服，并用大量水或淋浴冲洗皮肤15分钟，立即就医。

After Skin Contact：Remove contaminated clothes and rinse skin with plenty of water or shower for 15 minutes. Get medical aid.

吸 入：如有吸入，迅速脱离现场至新鲜空气处，如果停止呼吸，进行人工呼吸。如果呼吸困难，供给氧气。

After Inhalation：If inhaled, quickly leave the site to fresh air. If you stop breathing, perform artificial respiration. If breathing is difficult, supply oxygen.

食 入：如有知觉，请用水冲洗口腔， 就医。

After Ingestion：If swallowed, wash out mouth with water provided person is conscious Call a physician.

第五部分 消防措施
Section 5 Fire-fighting measures

危险特性：在火灾时可释放有害浓烟、气体或者蒸汽。

Characteristics of Hazard: Toxic fumes; gases or vapors may evolve on burning.

有害燃烧产物：一氧化碳和二氧化碳、HF、氟磷化物。

Hazardous Combustion Products: CO,CO_2, HF, phosphorus fluoride.

灭火方法及灭火剂：对锂电池，大量冷水是一个有效的灭火剂。不要使用温或热水。不要使用哈龙类灭火材料。可使用干粉、沙、土。

Fire-extinguishing Methods and Extinguishing Media: Copious amounts of cold water are an effective extinguishing medium for lithium batteries. Don't use warm or hot water. Don't use Halon type extinguishing material.

May use dry powder, sand, earth.

灭火注意事项：消防人员须佩戴防毒面具、穿全身消防服。

Attention in Fire-extinguishing: The Firemen should put on antigas masks and full fire-fighting suits.

第六部分 泄漏应急处理
Section 6 Accidental release measures

当电池发生泄漏，液体可以用砂，土，或其他惰性物质吸收，受污染的区域应同时通风。

When leakage of batteries happens, liquid could be absorbed with sands, earth, or other inert substance, and the contaminated area should be ventilated meantime.

未放热或燃烧的破损电池，应装入密封的塑料袋或容器。

Damaged batteries that are not hot or burning should be placed in a sealed plastic bag or container.

第七部分 操作处置和储存
Section 7 Handling and storage

操作注意事项：不要以让接头短路的方式对电池进行操作。

Handling: don't handling the batteries in manner that allows terminals to short circuit

储存注意事项：储存在一个低温，干燥，通风良好的环境。远离热源，避免长时间阳光照射。未使用时密封容器。

Conditions for safe storage, including any incompatibilities: Requirements to be met by storerooms and receptacles. Store in a cool, dry, well-ventilated place. Keep away from heat, avoiding the long time of sunlight.

第八部分 接触控制 / 个体保护
Section 8 Exposure controls/personal protection

最高容许浓度：没有适用标准

Maximum Allowable Concentration: No Standard available

工程控制：操作未破损的电池，没有工程控制要求。对于破损的电池，个人防护用品应包括 化学品防护手套和安全眼镜。

Engineering Controls: no engineering controls are required for handling batteries that have not been damaged. Personal protective equipment for damaged batteries should include chemical resistant gloves and safety glasses.

第九部分 理化特性
Section 9 Physical and Chemical Properties

有关基本物理及化学特性的信息 Information on basic physical and chemical properties	
外观Appearance	黑色 Black
形状Form	方形 Prismatic
气味Odour	无味 Odorless

第十部分 稳定性和反应性
Section 10 Stability and reactivity

稳定性：常温常压稳定。

Stability: Stable under normal temperatures and pressures.

禁配物：氧化剂。

Incompatibility: Oxidizing agents.

避免接触的条件：热和明火、短路和水。

Conditions to Avoid: Heat and open flame, short circuit, and water.

聚合危害：不会发生。

Hazardous polymerization: Will not occur.

分解产物：一氧化碳、二氧化碳、HF、氟磷化物。

Decomposition Products: CO, CO_2, HF, Phosphorus fluoride.

第十一部分 毒理性资料
Section 11 Toxicological information

在日常操作和使用中本产品不会引起毒理学性能。
Product does not elicit toxicological properties during routine handling and use.

第十二部分 生态学资料
Section 12 Ecological information

生态毒性： 无
Ecological Toxicity: N/A
生物降解性：无
Biodegradability: N/A
非生物降解性：无
Non-biodegradability: N/A
其它有害作用：该物质对环境有无明显危害。
Other Hazardous: Will not effect environmental evidently。

第十三部分 废弃处置
Section 13 Disposal consideration

废弃处置方法：建议遵照国家和地方法规处置或再利用。

Waste Treatment: Recycle or dispose of in accordance with government, state & local regulations.

废弃注意事项：废电池不能被当作普通垃圾。不能扔进火中或置于高温下。不能解体，刺穿, 破碎或类似的处理。最好的办法是回收利用。

Attention for Waste Treatment: Deserted batteries couldn't be treated as ordinary trash.

Couldn't be thrown into fire or placed in high temperature. Couldn't be dissected, pierced, crushed or treated similarly. Best way is recycling.

第十四部分 运输信息
Section 14 Transport information

UN 编号 UN NO.	UN3480 UN3481 UN3556
运输专有名称 Proper Shipping Name	UN3480 锂离子电池 UN3480 Lithium Ion Batteries UN3481 锂离子电池与设备打包 UN3481 Lithium Ion Batteries Packed With Equipment UN3556 以锂离子电池为动力的车辆 UN3556 Vehicle, Lithium ion Battery Powered
运输标签 Label for conveyance	电池标记 Battery Mark 锂电池和钠离子电池第九类危险品标签 Lithium Battery or Sodium Ion Battery Class 9 Label 仅限货机标签 Cargo aircraft Only Label
海洋污染物 Marine pollutants	无 No
应急措施 EMS	F-A,S-I

危险品规例规定，运输前，每一个电池设计通过联合国《试验和标准手册》第38.3节测试。

报告编号：S03A26091148U00101。

The dangerous goods regulations require that each battery design be subject to tests contained in UNITED NATIONS the "Manual of Test and Criteria" Section 38.3.

Report No.: S03A26091148U00101.

危险性分类：

该电池包装应遵守IATA DGR 67版包装说明PI965 Section IA / PI966 Section I/PI952的运输要求。

The package of battery should be complied with the requirements of Packing Instruction PI965 Section IA / PI966 Section I/PI952 of IATA DGR 67th Edition for transportation.

该电池包装遵守IMDG-CODE（42-24）,该货物属于危险品。

The package of battery complies with IMDG-CODE (42-24), The goods to be transport as Dangerous Good.

第十五部分 法规信息
Section 15 Regulation information

法规信息：

联合国《关于危险货物运输的建议书 规章范本》（24修订版）、国际航空运输协会 《危险品规则》（67版）、《国际海运危险货物规则》（IMDG-CODE）（42-24版）、《国际危险货物道路运输欧洲协定》（ADR）（2025版）、《国际危险货物铁路运输欧洲协定》（RID）（2025 版）

Regulatory information:

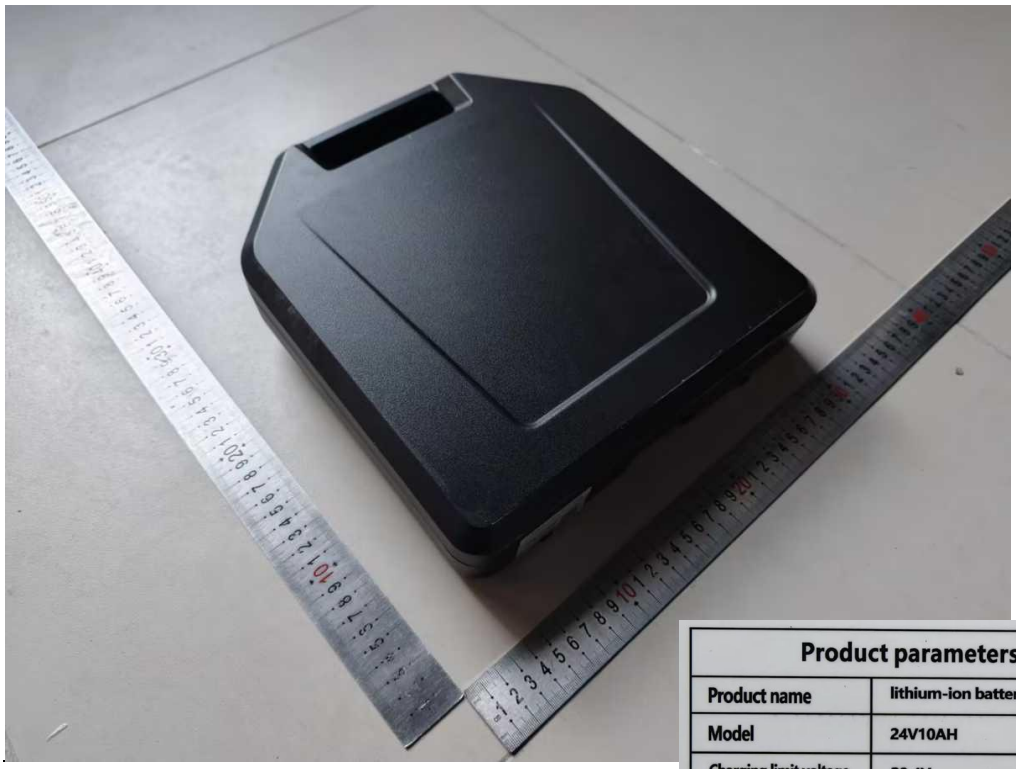
Recommendations on the transport of dangerous goods-model Regulations Twenty-four revised edition, IATA dangerous goods regulations 67th, International Maritime Dangerous Goods Code (42-24), European Agreement concerning the International Carriage of Dangerous Goods by Road (2025), Regulations concerning the International Carriage of Dangerous Goods by Rail (2025)

第十六部分 其他信息
Section 16 Other information

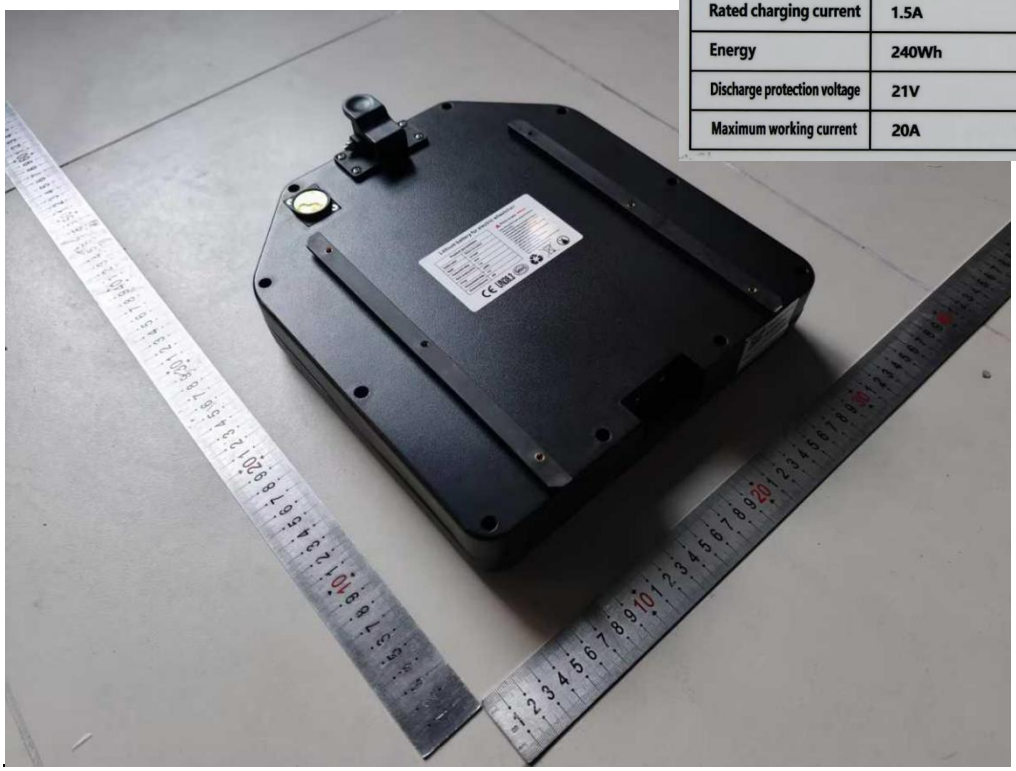
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This information is not effective to all the batteries manufactured by Jin Hua Ze Rui New Energy Technology Co., ltd. This information comes from reliable sources, but no warranty is made to the completeness and accuracy of information contained. Guangdong ESTL Technology Co., Ltd. doesn’t assume responsibility for any damage or loss because of misuse of batteries. User’s should grasp the correct use method and be responsible for the use of batteries.

Photos of Samples and Labels/样品照片及标识



Product parameters	
Product name	lithium-ion battery
Model	24V10AH
Charging limit voltage	29.4V
Rated charging current	1.5A
Energy	240Wh
Discharge protection voltage	21V
Maximum working current	20A



--- 报告结束 ---

--- End of Report ---

声明
Declaration

1. 本报告无批准人、审核人及检测人签名无效。

The test report is invalid without the signatures of Ratifier, Reviewer and Testing engineer.

2. 对检验报告若有异议，应于收到报告之日起十五天内向检验单位提出。

Objections to the test report must be submitted to ESTL within 15 days.

3. 未经本试验室书面同意，不得部分地复制本报告。

Nobody is allowed to photocopy or partly photocopy this test report without written permission of ESTL.

4. 本报告仅对送检样品负责。

The test report is valid for the tested samples only.

5. 本报告涂改无效。

The test report is invalid if altered.