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Specification for Lithium-ion Rechargeable Cell

锂离子电芯规格书

Cell Type (电芯型号) : INR21700/50E

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1. Preface (前言)

This Product Specification describes the technique requirements, test procedure and precaution notes of prismatic type Lithium-ion Rechargeable cell to be supplied to customer by HuiZhou EVE Energy Co., LTD.

本标准规定了由惠州亿纬锂能股份有限公司生产的锂离子电芯技术要求，测试方法及注意事项。

2. Description (说明)

2.1 Product 产品: Lithium-ion Rechargeable cell 锂离子可充性电芯

2.2 Model(Type) 电芯型号: INR21700/50E

2.3 Designation 名称:

EVE—— INR 21 700 ——50E

① ② ③ ④ ⑤

① The letter "EVE" defines Huizhou EVE Energy Co., LTD.

"EVE"代表惠州亿纬锂能股份有限公司

② The letter "INR" defines Cylindrical Li-ion rechargeable cell

" INR "代表圆柱锂离子二次电芯

③ The letter "21" defines the diameter of the cell

"21"代表电芯直径为 21mm

④ The letter "700" defines the overall height of the cell

"700"代表电芯高度为 70mm

⑤ The letter "E" defines the two wheelers vehicle batteries

"E"代表两轮车用电芯

3. Cell Size (电芯尺寸)

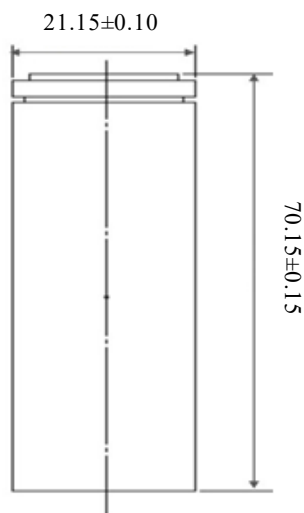


Figure A(图 A)

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4. Construction (电芯结构)

A cell is made of cathode, anode, separator, steel can and header etc.

电芯由正极、负极、隔膜、钢壳和盖帽等组成。

5. Specification (标准)

Item 项目		Specification 标准			Remarks 备注
5.1	Capacity@4.2~2.5V 容量@4.2~2.5V	Nominal Capacity 标称容量	5000	mAh	Standard charge/discharge 标准充放电
		Minimum 最小容量	4900	mAh	0.2C discharge 0.2C放电
5.2	Typical Voltage 标称电压	/	3.65	V	0.2C discharge 0.2C放电
5.3	AC-IR 交流内阻	/	≤20	mΩ	AC 1 kHz, (20%~30%)SOC
5.4	Cell Weight 电芯重量	/	69.0±2.0	g	
5.5	End-of-charge Voltage 充电截止电压	/	4.20	V	
5.6	End-of-charge Current 充电截止电流	/	100	mA	
5.7	End-of-discharge Voltage 放电截止电压	/	2.50	V	
5.8	Standard Charging current 标准充电电流	/	1000	mA	
5.9	Max. Continuous Charge current 最大持续充电电流	/	2500	mA	
5.10	Standard Discharge current 标准放电电流	/	1000	mA	
5.11	Max Continuous Discharge current 最大连续放电电流	/	15000	mA	

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Item 项目		Specification 标准			Remarks 备注
5.12	Operating Temperature Range 操作温度范围	Charging Temp. 充电温度	0~15	℃	≤1000mA
			15~50	℃	≤5000mA
			45~55	℃	≤1000mA
		Discharging Temp. 放电温度	-20~60	℃	/
		Storage Temp. 存储温度	0~60	℃	≤1 month ≤1个月
			0~45	℃	≤3 months ≤3个月
			0~25	℃	≤1 year ≤1年
Storage Humidity 存储湿度	≤65	% RH	/		
5.13	Appearance 外观	Without break, scratch, distortion, contamination, leakage and so on 无破裂、划痕、变形、污迹、电解液泄露等			
5.14	Cell Dimension 电芯尺寸	Diameter : Φ21.15±0.10 mm 直径 : Φ21.15±0.10mm Height : 70.15±0.15 mm 高度 : 70.15±0.15 mm			

6. Test Conditions (测试条件)

6.1 Standard Test Conditions 标准测试条件

Unless otherwise specified, all tests stated in this Product Specification should be conducted at temperature 25°C±2°C and humidity under 65% RH.

若无特别要求，此规格书上的产品测试条件均为温度：25 °C±2 °C；湿度：小于 65% RH。

6.2 Standard Charge Method 标准充电方式

The "Standard Charge" means charging the cell at a constant current of 1000mA until the voltage is 4.20V, and then charged at a constant voltage of 4.20V until its current is less than 100mA. For test purpose, charging shall be performed at 25°C±2°C.

“标准充电”即在环境温度为 25 °C±2 °C 的条件下，先以恒定电流 1000mA 充电至 4.20V，再以 4.20V 的恒压充电至电流小于 100mA。

6.3 Standard discharge method

标准放电方式：

The "Standard Discharge" means discharging the cell at a constant current of 1000mA until the voltage is 2.50V. For test purpose, discharging shall be performed at 25°C±2°C.

“标准放电”即在环境温度为 25 °C±2 °C 的条件下，以恒定电流 1000mA 放电到 2.50V。

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7. Electrical Characteristics (电性能)

	Test Item 测试项目	Test Method 测试方法	Criteria 检验标准				
			Discharge Condition 放电条件				
7.1	Discharge Rate Capacity 倍率放电性能	The cell is measured with the various discharge currents in right table to the cut-off voltage after the standard charge.(2.50V) 电芯按照右表不同电流放电至截止电压 (2.50V)	Discharge Current 放电电流	2500 mA	5000 mA	10000 mA	15000 mA
			Relative Capacity Rate of 1000mA 相对 1000mA 放电容量比	≥97%	≥95	≥93%	≥90%
7.2	Different Temperature Discharge Capacity 不同温度放电性能	The cell is measured with discharge constant current of 1000mA to 2.50V with follow discharge temperature and rest for 16h, 4h, 4h respectively after the standard charging. 电芯按右表不同温度分别搁置 16h 4h 4h 后以 1000mA 电流放电至 2.50V	Discharge temperature 放电温度	-20 °C	25 °C	55 °C	
			Relative Capacity Rate of 1000mA 相对 1000mA 放电容量比	≥70%	100%	≥95%	
7.3	Normal Temperature Charge Retention and Regain 常温荷电保持与恢复能力	Capacity after storage for 28d at 25 °C±2 °C after the standard charged measured with discharge current of 1000mA to cut-off voltage. 电芯按规定充电, 25 °C±2 °C 储存 28d 后以 1000mA 电流放电至截止电压测试容量保持和恢复		Retention 保持率	Regain 恢复率		
			Relative Capacity vs. Initial Capability 相对初始容量	≥85%	≥90%		

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	Test Item 测试项目	Test Method 测试方法	Criteria 检验标准		
				Retention 保持率	Regain 恢复率
7.4	High Temperature Charge Retention and Regain 高温荷电保持与恢复能力	Capacity after storage for 7d at 55 °C±2 °C after the standard charged measured with discharge current of 1000mA to cut-off voltage. 电芯按规定充电，55 °C±2 °C 储存 7d 后，以 1000mA 电流放电至截止电压测试容量保持率和容量恢复率	Relative Capacity vs. Initial Capability 相对初始容量	≥85%	≥90%
7.5	Storage 储存	Capacity after storage for 28d at 25 °C±2 °C after the standard charged measured with discharge current of 1000mA to cut-off voltage. 电芯按规定充电，25 °C±2 °C 储存 28d 后以 1000mA 电流放电至截止电压测试容量恢复率	Capacity recovery ≥90% Initial capacity 容量恢复率 ≥90% 初始容量		
7.6	Cycle Life 循环寿命	Each cycle is an interval between 1000mA charges to 4.20V with 250mA cut-off and 1000mA discharge with 3.00V cut-off at 25 °C±2 °C. Capacity after 1000 cycles. 电芯以 1000mA 电流充电至 4.20V, 250mA 电流截止，以 1000mA 电流放电至 3.00V, 25 °C±2 °C 连续进行充放电循环 1000 次	Capacity retention ≥70% Initial capacity 容量保持率 ≥70% 初始容量		

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8. Mechanical Characteristic (机械性能)

Test Item 测试项目	Test Method 测试方法	Criteria 检验标准
8.1 Drop Test 跌落测试	A fully charged cell drop onto the flat concrete floor from 1.0m height three times in a random direction at 20±5 °C. After the experiment placed at least 1h, the appearance of the inspection. 满电电芯从 1m 的高度以随机的方向跌落至水泥地上 3 次（从头部、尾部、侧面三个方向），实验后放置至少 1h 后进行外观检查。	No explosion, no fire 不爆炸、不起火
8.2 Vibration Test 振动测试	The vibration shall be a sinusoidal waveform with a logarithmic sweep between 7Hz and 200Hz and back to 7Hz traversed in 15 minutes. This cycle shall be repeated 12 times for a total of 3 hours for each of three mutually perpendicular mounting positions of the cell. One of the directions of vibration must be perpendicular to the terminal face. The logarithmic frequency sweep is increased from 7 Hz a peak acceleration of 1 gn is maintained until 18 Hz is reached. The amplitude is then maintained at 0.8 mm (1.6 mm total excursion) and the frequency increased until a peak acceleration of 8 gn occurs. A peak acceleration of 8 gn is then maintained until the frequency is increased to 200Hz. 所使用的振动波形为正弦波，振动频率范围是 7Hz~200Hz，并且在 15min 内恢复至 7Hz。电芯在 3 个垂直的方向振动，每个方向重复 12 次，总共是 3h。其中有一个振动方向必须垂直于端面。振动频率从 7Hz 开始以 1gn 的速度增加到 18Hz。振幅维持在 0.8mm，频率持续增加，直到最大加速度 8gn 出现。并且用这个速度使频率到达 200Hz。	No explosion, no fire, no leakage, less than 10% of OCV drop 不爆炸、不起火、不漏液、开路电位下降少于 10%

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9. Safety Test (安全测试)

All below tests are carried out on the equipment with forced ventilation and explosion-proof device. Before test, all cells should be charged in accordance with 6.2, and stored 24h prior for testing.

下述试验应在有强制排风条件及防爆措施的装置内进行，在试验前所有的电芯都按 6.2 规定标准充电方式充电，并搁置 24h 后，再进行以下试验。

Test Item 测试项目	Test Method 测试方法	Criteria 检验标准
9.1 Crush Test 挤压测试	A cell is to be crushed between two flat surfaces. The force for the crushing is to be applied by a hydraulic ram or similar force mechanism. The flat surfaces are to be brought in contact with the cells and the crushing is to be continued until an applied force of 13 ± 1 KN is reached. Once the maximum force has been obtained is to be released. 将电芯置于挤压设备的两个挤压平面之间，用液压油缸或类似的力挤压，挤压面与电芯接触，逐渐增加压力至 13 ± 1 KN 后停止。	No explosion, no fire 不爆炸、不起火
9.2 Heating Test 加热测试	A cell is to be heated in a gravity convection or circulating air oven. The temperature of the oven is to be raised at a rate of $5 \text{ }^\circ\text{C} \pm 2 \text{ }^\circ\text{C}$ per minute to a temperature of $130 \text{ }^\circ\text{C} \pm 2 \text{ }^\circ\text{C}$ and remain for 30 min and observed 1h. 将电芯放在电热鼓风干燥箱中加热，温度以 $5 \text{ }^\circ\text{C} \pm 2 \text{ }^\circ\text{C} / \text{min}$ 的速率由室温升至 $130 \text{ }^\circ\text{C} \pm 2 \text{ }^\circ\text{C}$ 并保持 30min，观察 1h。	No explosion, no fire 不爆炸、不起火

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Test Item 测试项目	Test Method 测试方法	Criteria 检验标准																																
9.3 Over-charge Test 过充电	Fully standard charged cell is charged with 5.0A (1C) to 6.3V or until charging time up to 1h. 标准充电方式充满电后，以 5.0A (1C) 电流充电至 6.3V 或者充电 1h，观察 1h。	No explosion, no fire 不爆炸、不起火																																
9.4 Short-circuit Test 短路测试	Short-circuited the standard charged cell by connecting the positive and negative terminals of the cell with a circuit load having a resistance load $80\pm 20\text{ m}\Omega$. Until the test time is lasting to 10 min. 短接电芯的正负极，外部线路总电阻为 $80\pm 20\text{ m}\Omega$ ，10min 后结束实验。	No explosion, no fire 不爆炸、不起火																																
9.5 Over-discharge Test 过放电	Each standard discharged cell is discharged at 5.0A current for 90 min and observed 1h. 标准放电方式后的电芯以 5.0A 电流放电 90 min，观察 1h。	No explosion, no fire 不爆炸、不起火																																
9.6 Altitude Simulation 低气压	Each fully charged cell is placed in a vacuum chamber with the ambient temperature ($20\text{ }^{\circ}\text{C}\pm 5\text{ }^{\circ}\text{C}$). Once the chamber has been sealed, its internal pressure is gradually reduced to a pressure equal to or less than 11.6KPa held at that value for 6 hours. And it need take 1 hour to observe. 电芯放入温度为 $20\text{ }^{\circ}\text{C}\pm 5\text{ }^{\circ}\text{C}$ 的低气压箱中，调节试验箱中气压为 11.6KPa，静置 6h 后观察 1h。	No explosion, no fire, no leakage, less than 10% of OCV drop 不爆炸、不起火、不漏液、开路电位下降少于 10%																																
9.7 Temperature Cycling 温度循环	Test according to the following procedure and the profile shown in table and figure. Fully charged cells or batteries are subjected to temperature cycle forced draught chambers and repeated for five cycles. And it need take 1 hour to observe. <table border="1" data-bbox="523 1422 1061 1512"> <tr> <td>温度$^{\circ}\text{C}$</td> <td>25</td> <td>-40</td> <td>-40</td> <td>25</td> <td>85</td> <td>85</td> <td>25</td> </tr> <tr> <td>时间增量 min</td> <td>0</td> <td>60</td> <td>90</td> <td>60</td> <td>90</td> <td>110</td> <td>70</td> </tr> <tr> <td>累计时间 min</td> <td>0</td> <td>60</td> <td>150</td> <td>210</td> <td>300</td> <td>410</td> <td>480</td> </tr> <tr> <td>温度变化率$^{\circ}\text{C}/\text{min}$</td> <td>0</td> <td>13/12</td> <td>0</td> <td>13/12</td> <td>2/3</td> <td>0</td> <td>6/7</td> </tr> </table>  <p>电芯按照标准充满电后，放入温度箱中，温度箱温度按照表和图进行调节，循环 5 次，观察 1h。</p>	温度 $^{\circ}\text{C}$	25	-40	-40	25	85	85	25	时间增量 min	0	60	90	60	90	110	70	累计时间 min	0	60	150	210	300	410	480	温度变化率 $^{\circ}\text{C}/\text{min}$	0	13/12	0	13/12	2/3	0	6/7	No explosion, no fire 不爆炸、不起火
温度 $^{\circ}\text{C}$	25	-40	-40	25	85	85	25																											
时间增量 min	0	60	90	60	90	110	70																											
累计时间 min	0	60	150	210	300	410	480																											
温度变化率 $^{\circ}\text{C}/\text{min}$	0	13/12	0	13/12	2/3	0	6/7																											

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10. Shipment (运输)

The capacity of delivery cell is approximately at 3.45~3.60V of charging. It is not specified more than 3.45~3.60V at customer, because of self-discharge. During transportation, keep the cell from acutely vibration, impacting, solarization, drenching.

出货电芯处于 3.45~3.60V 充电状态，由于电芯存在自耗，运送到客户端的电芯无法完全保证 3.45~3.60V 充电状态。运输过程应防止剧烈振动、冲击、日晒雨淋。

11. Warranty (质量保证)

The warranty period of cell is made according to business contract. However, even though the problem occurs within this period, EVE won't replace a new cell for free as long as the problem is not due to the failure of EVE manufacturing process or is due to customer's abuse or misuse. The warranty period of the product is 12 months from the delivery date.

自出货之日起，电芯的保质期限依合同而定。但是，在此期限内，如果非亿纬公司的制程原因而是客户的误用造成的电芯质量问题，亿纬公司不承诺免费更换。产品的质量保质期为 12 个月，自产品交付之日起算。

> EVE will not be responsible for trouble occurred by handling outside of the precautions in instructions.

亿纬公司对违反安全守则操作所产生的问题不承担任何责任。

> EVE will not be responsible for trouble occurred by matching electric circuit, cell pack and charger.

亿纬公司对与电路、电芯组、充电器搭配使用所产生的问题不承担任何责任。

> EVE will be exempt from warranty any defect cells during assembling after acceptance.

出货后客户在电芯组装过程中产生的不良电芯不在亿纬公司质量保证的范围之列。

12. Precautions and Safety Instructions (安全守则)

Lithium-Ion rechargeable batteries subject to abusive conditions can cause damage to the cell and/or personal injury. Please read and observe the standard cell precautions below before using utilization.

滥用锂离子充电电芯可能会造成电芯的损害或人身的伤害。在使用锂离子充电电芯以前，请仔细阅读以下的安全守则：

Note 1. The customer is required to contact EVE in advance, if and when the customer needs other applications or operating conditions than those described in this document.

注释 1. 如果客户需要将电芯在该文件之外的条件下操作或应用，请先咨询亿纬公司相关事宜。

Note 2. EVE will take no responsibility for any accident when the cell is used under other conditions than those described in this document.

注释 2. 在该文件说明的条件之外使用该电芯而产生的事故，亿纬公司不承担任何责任。

12.1 Standard Cell Precaution 电芯防范措施

a. Do not expose the cell to extreme heat or flame.

不要将电芯暴露在极热或有火星的环境中。

b. Do not short circuit, over-charge or over-discharge the cell.

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不要将电芯短路，过充或过放。

c. Do not subject the cell to strong mechanical shocks.

不要使电芯承受过重的机械冲击。

d. Do not immerse the cell in water or sea water, or get it wet.

不要将电芯浸入海水或水中，或者使其吸湿。

e. Do not reverse the polarity of the cell for any reason.

不要颠倒电芯的正负极。

f. Do not disassemble or modify the cell.

不要拆卸或修整电芯。

g. Do not handle or store with metallic like necklaces, coins or hairpins, etc..

不要和项链,硬币或发夹等金属物品放置在一起。

h. Do not use the cell with conspicuous damage or deformation.

不要使电芯受到明显的损害或变形。

i. Do not connect cell to the plug socket or car-cigarette-plug.

不要将电芯与插座连接。

j. Do not make the direct soldering onto a cell.

不要直接焊接电芯。

k. Do not touch a leaked cell directly.

不要直接接触泄漏的电芯。

l. Do not use for other equipment.

不要将电芯用于其它设备。

m. Do not use Lithium-ion cell in mixture.

不要将锂离子电芯混合使用。

n. Do not use or leave the cell under the blazing sun (or in heated car by sunshine).

不要将电芯放置在太阳光直射的地方。

o. Keep cell away from children.

将电芯放置在远离儿童的地方。

p. Do not drive a nail into the cell, strike it by hammer or tread it.

不要针刺、锤打或践踏电芯。

q. Do not give cell impact or fling it.

不要撞击或投掷电芯。

12.2 Cell Operation Instruction 电芯使用说明

12.2.1. Charging 充电

a. Charge the cell in a temperature range of 0°C to 55°C.

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电芯充电温度范围为 0°C~55°C。

b. Charge the cell at a constant current of 5000mA until 4.20V is attained. Charge rates greater than 5000mA are not recommended.

以 5000mA 的电流恒流充电至 4.20V，超过 5000mA 的电流建议不要使用。

c. Maintain charge voltage at 4.20V for 1hour (recommended for maximum capacity).

保持恒压 4.2V 充电 1 小时（最大容量）。

* Cell must be charged with constant current-constant voltage method.

必须使用恒流恒压方式对电芯进行充电。

* Do not continue to charge cell over specified time.

不要超过标准时间持续充电。

12.2.2. Discharging 放电

a. Recommended cut-off voltage to 3.0V. Recommended max continuous discharge current is 15000mA.

建议放电终止电压为 3.0V，建议最大持续恒流放电电流为 15000mA。

b. For maximum performance, discharge the cell in a temperature range of -20°C to 60°C.

为了达到较好的性能，电芯的放电温度范围为-20°C~60°C。

12.2.3. Storage Recommendations 储存建议

a. Short Period Storage 短期存放

- Storage the cell at temperature of 0°C to 45°C (less than 3 months), low humidity and no corrosive gas atmosphere.

如果短期存放（不超过 3 个月）电芯应储存在温度范围为 0°C~45°C，低湿度和不含腐蚀性气体的环境中。

- No press on the cell

不要让电芯承担任何压力。

b. Long Period Storage 长期存放

- In case of long period storage (more than 3 months), storage the cell at temperature range of 0°C ~ 25°C, low humidity, no corrosive gas atmosphere.

如果长期存放（超过 3 个月），电芯应存储在温度范围为 0°C~25°C，低湿度和不含腐蚀性气体的环境中。

- No press on the cell

不要让电芯承担任何压力。

13. Consultation （技术咨询）

As to the obscurity, contact the following:

Address: HuiZhou EVE Energy Co., Ltd.—EVE Industrial Park on No.38,Huifeng 7th Road, Zhongkai Hi-Tech Zone, Huizhou

Tel No.: 86-752-2630809

Fax No.: 86-752-2606033

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Website: <http://www.evebattery.com.cn>

如有疑问，请按以下方式咨询：

厂址：惠州亿纬锂能股份有限公司—惠州市仲恺高新区惠风七路 38 号亿纬工业园

电话：86-752-2630809

传真：86-752-2606033

网址：<http://www.evebattery.com.cn>

14. Requirement for Safety Assurance （安全保证要求）

For the sake of safety assurance, please discuss the equipment design, its system and protection circuit of Lithium-ion cell with EVE in advance. And consult about the high rate current, rapid charge and special application in the same way.

为了安全起见，如有设备设计，锂离子电芯系统保护电路或高电流，快速充电和其它方面的特殊应用，请先咨询亿纬公司相关事宜。