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Lithium-ion battery specification

锂离子电池规格书

Model (产品型号): A0710 (EVE-INR18650/35V 1S1P)

Customer model (客户型号): _____

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Amendment records

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A	2022-11-10	First issue (第一次出版)	Jack Wang
A	2022-11-11	修正成品图喷码; 更新目录	Jack Wang
A	2022-11-18	修改循环寿命	Jack Wang
A	2022-11-24	更新项目编号; 更新成品图电池颜色;	Jack Wang



Catalogue 目录

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1. Scope (适用范围)

This product specification describes the technique requirements, test procedure and precaution notes of lithium-ion battery to be supplied to customer by EVE ENERGY CO., LTD.

本规格书适用于本书中所提及的亿纬锂能股份有限公司制造的电池。

2. Model (产品型号)

A0XXX (EVE-INR18650/35V 1S1P)

3. Product specification (产品技术规格)

Table 1 (表 1)

No.	Item 项目	Specification 规格参数
1	Typical discharge capacity 典型放电容量	3500mAh Charge: 0.68A, 4.20V,CCCV 68mA cut-off 充电方式: 0.68A 恒流恒压充电 4.20V, 截止电流 68mA Discharge: 0.68A, 2.50V DC cut-off 放电方式: 0.68A 恒流放电至 2.50V 截止
2	Min. discharge capacity 最小放电容量	3400mAh Charge: 0.68A, 4.20V,CCCV 68mA cut-off 充电方式: 0.68A 恒流恒压充电 4.20V, 截止电流 68mA Discharge: 0.68A, 2.50V DC cut-off 放电方式: 0.68A 恒流放电至 2.50V 截止
3	Typical voltage 额定电压	3.65 V
4	Standard charge 标准充电	CCCV, 0.68A, 4.20±0.05V, 68mA cut-off 0.68A 恒流恒压充电 4.20±0.05V, 截止电流 68mA
5	Rapid charge 快速充电	CCCV, 1.5A, 4.20±0.05V, 68mA cut-off 1.5A 恒流恒压充电 4.20±0.05V, 截止电流 68mA
6	Standard discharge 标准放电	DC, 0.68A, 2.50V cut-off 0.68A 恒流放电至 2.50V 截止
7	Max. continuous discharge 最大持续放电	DC, 3.4A, 2.50V cut-off (Not for cycle life) 3.4A 恒流放电至 2.50V 截止(非循环寿命)
8	Charge/Discharge voltage range 充放电电压范围	4.20~2.50V
9	Battery weight 电池重量	50.8g Max

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No.	Item 项目	Specification 规格参数	
10	Operation temperature (Surface temperature) 工作温度（电池表面温度）	Charge: 0 to 15 °C 充电：0 ~15 °C	≤0.2C
		Charge: 15 to 50 °C 充电：15 ~ 50 °C	≤1.0C (Not for cycle life)
		Discharge: -20 to 60°C (Device cut-off when the battery temperature ≥70°C) 放电：-20 ~ 60°C（电池表面温度≥70°C 时，设备切断充放电）	
11	Storage temperature (At shipping SOC) 存储温度 (在海运的电量范围)	≤1 year 1 年以内	0 ~ 25 °C
		≤3 months 3 个月以内	0 ~ 45 °C
		≤1 month 一个月以内	0 ~ 60 °C
12	Initial internal impedance 初始内阻	≤45 mΩ Impedance is measured at AC 1kHz at shipping SOC 交流 1kHz 下测量阻抗	
13	Shipment voltage 出货电压	3.45~3.60V The cell should be shipped in 3.45V to 3.60V 电池应该在 3.45~3.60V 状态下运输	

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4. Performance and test conditions (电池性能及测试条件)

4.1 Standard test conditions (标准测试条件)

Test should be conducted with new batteries within one week after shipment from our factory and the batteries should not be cycled more than five times before the test.

测试电池必须是本公司出厂时间不超过一个星期的新电池，且电池未进行过五次以上充放电循环。

Statement : Unless otherwise specified, all tests stated in this product specification are conducted at below conditions:

Temperature: $25\pm 2^{\circ}\text{C}$

Humidity: $\leq 65\% \text{RH}$

声明：除非其它特殊要求，本产品规格书规定的测试条件为：温度 $25\pm 2^{\circ}\text{C}$ ，相对湿度 65% RH。

4.2 Measuring instrument or apparatus (测量器具及设备)

4.2.1 Dimension measuring instrument 尺寸测量工具

The dimension measurement shall be implemented by instruments with equal to or more precision scale than 0.02mm.

尺寸测量器具的精度等级应不小于 0.02 mm 。

4.2.2 Voltage measurement 电压测试

The voltage measurement shall be implemented by instruments with equal or more precision scale of 0.001V

测量电压的仪器精度应高于或等于 0.001V。

4.2.3 Ammeter (安培计)

Standard class specified in the national standard or more sensitive class. Total external Resistance including ammeter and wire is less than 0.01Ω.

按照国家标准指定规格等级或采用灵敏度更高的，包括电流表及电线在内的总外阻应小于 0.01Ω。

4.2.4 Impedance measurement 内阻测试

The impedance measurement shall be implemented by instruments with equal or more precision scale of 0.1mΩ.

测量内阻的仪器精度应高于或等于 0.1mΩ。

4.3 Appearance (外观)

There shall be no such defects as rust, discoloration, leakage which may adversely affect commercial value of the battery.

电池应无锈蚀、变色、泄漏等影响电池商业价值的外观缺陷。

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4.4 Temperature dependence of discharge capacity (放电温度特性)

Standard charge at 25±2°C, and then cool down or heat up to test temperature within 30 minutes. Rest the battery at this temperature for 2 hours, and then use 0.68A(0.2C) to discharge to 2.50V at different temperature. After the test for one temperature is completed, rest the battery at room temperature for 2 hours and then conduct the standard charge(@25±3°C). The test requirement is as follows:

电池在 25±2°C 标准充电，然后在 30 分钟内冷却或加热到测试温度。放电前电池在此温度下保持 2 小时，在不同温度下的放电为 0.68A(0.2C) 放电至 2.50V，做完一个温度实验后，电池在室温下放置 2 小时然后进行标准充电 (25±3°C)，要求如下：

Table 2 (表 2)

Discharge temperature (放电温度)	-20°C	25°C	55°C
Requirement 要求	≥70% C_{min}	≥100% C_{min}	≥90% C_{min}

4.5 Storage characteristics 存储特性

Initial capacity: Standard discharge capacity.

初始容量：标准放电容量。

Retention capacity: The standard discharge capacity after fully standard charged storage at condition in the following table.

保持容量：标准满充后的电池，在储存之后做的标准放电容量，满足在下表中的条件。

Recovery capacity: The standard discharge capacity of three times cycles after fully standard charged storage at condition in the following table.

恢复容量：测试过保持容量后的电池，做三次标准充放电循环，取最大放电容量，满足在下表中的条件。

Retention ratio= Retention capacity/ Initial capacity*100%

容量保持率=保持容量/初始容量*100%

Recovery ratio= Recovery capacity/ Initial capacity*100%

容量恢复率=恢复容量/初始容量*100%

Table 3 (表 3)

Item 项目	Retention ratio 容量保持率	Recovery ratio 容量恢复率
25°C 28 days 25°存储 28 天	≥85%	90%
60°C 7 days 60°存储 7 天	≥85%	90%

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5 Cycles life (循环寿命)

Table 4 (表 4)

Item (测试项目)	Test method (测试方法)	Requirement (要求)
Cycle test 循环测试	Charge/Discharge following the steps below. 按照以下步骤进行充放电 1) Charge: 1.7A constant current to 4.20V, 4.20V constant voltage to 170mA cut-off 充电: 1.7A 恒流充电至 4.20V, 再 4.20V 恒压充 电至截止电流 170mA 2) Rest for 10 minutes. 静置 10 分钟 3) Discharge: 3.4A discharge to 3.00V 放电: 3.4A 至 3.00V 4) Rest for 30 minutes. 静置 30 分钟 5) Repeat from 1) to 4). 重复 1) 至 4) 步骤 ※ Temperature: 25±2°C. 温度 25±2°C	After 500 cycles: the Capacity Retention≥70%Ci (Ci : the first discharge capacity) 500 周循环后: 容量保持率≥70% Ci (Ci :第一次放电的容量)

6 Cell mechanical characteristics and safety test (电芯安全测试及机械特性)

Table 5 (表 5)

No.	Item 项目	Test method 测试方法	Requirement 要求
1	Drop test 跌落测试	Each fully charged cell is dropped three times from a height of 1.0m onto a concrete floor at 20±5°C. The cells are dropped so as to obtain impacts in random orientations. After the test, the cells shall be put on rest for a minimum one hour and then a visual inspection shall be performed. 标准充满电后的电池, 在 20±5°C 下, 从 1 米的高度随机自由跌落到水泥地面上, 跌落 3 次。静置 1 小时后, 进行目视检查。 Drop test shall be performed with the IEC62133 standard. 跌落测试参照 IEC62133 标准	No fire, no explosion. 无起火, 无爆炸
2	Vibration test 振动测试	For X and Y axis with cylindrical cell 7Hz→200Hz→7Hz for 15min, repetition 12 times totally 3 hours, the acceleration 1g during 7 to 18Hz, then amplitude 1.6mm and maximum 8g up to 200Hz. Tests are to be conducted at 20±5°C. 沿 X、Y 两个方向各振动, 从 7Hz→200Hz→7Hz 持续进行 15min, 重复 12 次, 共 3 小时, 在 7 至 18Hz 期间加速度为 1g, 然后振幅为 1.6mm, 加速度最大 8g 时频率达到 200Hz。试验在 20±5°C 下进行。 Vibration test shall be performed with the UN38.3 standard 振动测试参照 UN38.3 标准	No fire, no explosion, no leakage, with less than 10% of OCV drop 不起火, 不爆炸, 不漏液, 电压下降不低于 10%

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No.	Item 项目	Test method 测试方法	Requirement 要求
3	Over-charging test 过充电测试	Fully standard discharged cell is charged with 3.4A (1C) to 6.30V or until charging time up to 1h. 标准放完电以后，电芯以 3.4A (1C) 充电至 6.30V，或者充电 1.0 小时以上。 Overcharge test shall be performed with the GB/T 31485-2015 standard. 过充电测试参照 31485-2015 标准	No fire, no explosion 不起火，不爆炸
4	External short-circuit test 外部短路测试	Fully standard charged cell is to be short-circuited by connecting the positive and negative terminals of the cell with a circuit load having a resistance load of $80\pm 20\text{m}\Omega$ at $20^\circ\text{C} \pm 5^\circ\text{C}$. Until the test time is lasting to 10min. 电芯标准充满电后，在 $20^\circ\text{C} \pm 5^\circ\text{C}$ 下用电阻为 $80\pm 20\text{m}\Omega$ 的铜导线对电芯正负极进行短接测试，短接时间为 10 分钟。 External short-circuit test shall be performed with the UL1642 standard. 外部短路测试参照 UL1642 标准	No fire, no explosion 不起火，不爆炸
5	Forced discharge test 强制放电测试	A fully standard discharged cell is subjected to forced discharge at 3.4A (1C) for 90 min. 电芯标准放完电以后，电芯遭到 3.4A (1C) 强制放电 90min。 Forced discharge test shall be performed with the GB/T 31485-2015 standard. 强制放电测试参照 31485-2015 标准	No fire, no explosion 不爆炸，不起火
6	Heating test 热冲击测试	Put the battery into the heating chamber, in which the temperature is to rise to $130\pm 2^\circ\text{C}$ at the rate of $(5\pm 2^\circ\text{C})/\text{min}$ and keep for 30 minutes. 电池放于热箱中，温度以 $(5\pm 2^\circ\text{C})/\text{min}$ 的速率升至 $130\pm 2^\circ\text{C}$ 并保温 30 分钟。 Heating test shall be performed with the GB/T 31485-2015 standard. 热冲击测试参照 31485-2015 标准	No fire, no explosion. 不起火，不爆炸

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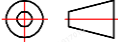
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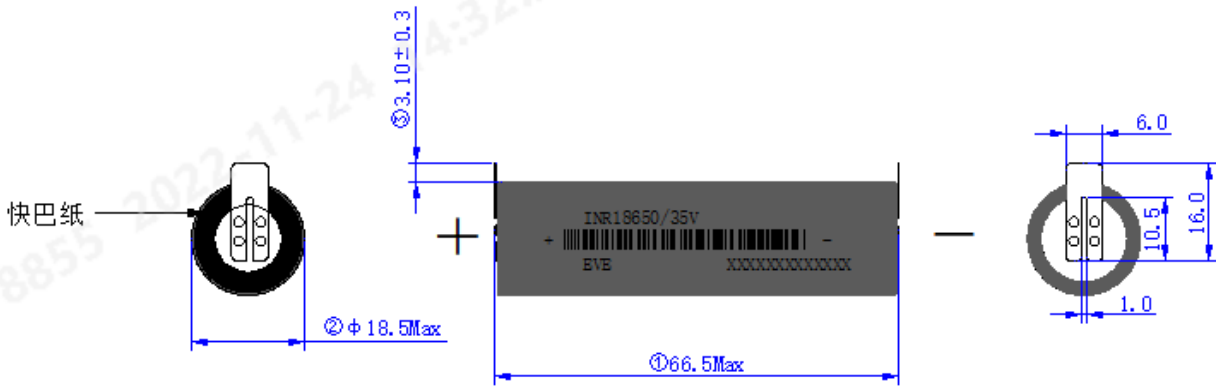
No.	Item 项目	Test method 测试方法	Requirement 要求
7	Low pressure test 低气压测试	Fully standard charged cell is to be stored at a pressure of 11.6 kPa or less for at least six hours at ambient temperature. 电芯标准充满电后，常温置于 11.6kPa 以下的大气压中 6 小时。 Low pressure test shall be performed with the UN38.3 standard. 低气压测试参照 UN38.3 标准	No fire, no explosion, no leakage, with less than 10% of OCV drop 不起火，不爆炸，不漏液，电压下降不低于 10%
8	Thermal test 温度测试	Fully standard charged cell is to be stored for at least 6 hours at a test temperature equal to $75\pm 2^{\circ}\text{C}$, followed by storage for at least 6 hours at a test temperature equal to $-40\pm 2^{\circ}\text{C}$. The maximum time interval between temperatures extreme is 30 minutes. This procedure is to be repeated until 10 total cycles are complete, after which stored for 24 hours at ambient temperature ($20\pm 5^{\circ}\text{C}$). 电芯标准充满电后，将其放在 $75\pm 2^{\circ}\text{C}$ 的试验温度下储存至少 6 小时，然后在 $-40\pm 2^{\circ}\text{C}$ 的试验温度下储存至少 6 小时。两温度之间切换的时间间隔小于 30 分钟。重复该程序，10 个循环，然后在环境温度 ($20\pm 5^{\circ}\text{C}$) 下储存 24 小时。 Thermal test shall be performed with the UN38.3 standard. 温度测试参照 UN38.3 标准	No fire, no explosion. 不起火，不爆炸
9	Crush Test 挤压测试	A fully standard charged 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 $13\pm 1\text{ KN}$ is reached. Once the maximum force has been obtained is to be released. 电芯标准充电后，将电芯放在两个平面间承受挤压，挤压的压力由活塞的液压油缸提供。平面应与电池接触，并继续施加压力，直到达到 $13\pm 1\text{ KN}$ 的作用力为止。 Crush test shall be performed with the UL1642 standard. 挤压测试参照 UL1642 标准	No fire, no explosion. 不起火，不爆炸

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7. Product construct drawing: (产品结构图)

Unit (单位): mm

View direction (视图方向): 



Label printing drawing: (商标图)

TBD

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8. Package drawing: (产品包装图)

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9. Battery user instructions 电池使用指南

Read and observe the following warnings and precautions to ensure correct and safe use of Lithium-ion batteries. EVE ENERGY CO., LTD. will not be responsible for any problems caused by violating the following precautions.

认真阅读下面的警告信息和注意事项，确保正确安全使用锂离子电池。亿纬锂能股份有限公司对违反下述注意事项而产生的任何问题不予负责。

Danger! 危险!

Failure to observe the following precautions may result in battery leakage, overheating, explosion or fire.

不遵守以下预防措施可能导致电池泄露、过热、爆炸或起火。

- Do not immerse the battery in water or allow it to get wet.
- 勿将电池投入水中或将其弄湿；
- Do not use or store the battery near sources of heat such as a fire or heater.
- 勿在热源（如火或加热器）附近使用或贮存电池；
- Do not use any chargers other than those recommended by EVE.
- 请不要使用 EVE 推荐以外的充电器；
- Do not reverse the positive (+) and negative (-) terminals.
- 勿将正负极接反；
- Do not connect the battery directly to wall outlets or car cigarette-lighter sockets.
- 勿将电池直接连接到墙上插座或车载点烟式插座上；
- Do not put the battery into a fire or apply direct heat to it.
- 勿将电池投入火中或给电池加热；
- Do not short-circuit the battery positive (+) and negative (-) terminals by connecting wires or other metal objects.
- 禁止用导线或其它金属物体将电池正负极短路；
- The soldering temperature must be lower than 390°C, and no longer than 3seconds.
- 焊接温度不超过 390°C，时间不超过 3 秒；
- Do not carry or put the battery together with necklaces, hairpins or other metal objects.
- 禁止将电池和项链，发夹和其它金属物品放置在一起。
- Do not put the battery near a fire or in extremely hot conditions.
- 禁止将电池置于明火附近或极热条件下。

Warning! 警告!

Failure to observe the following precautions may result in battery leakage, overheating, explosion or fire.

不遵守以下预防措施可能导致电池泄露、过热、爆炸或起火。

- Do not place the battery in a microwave oven or pressurized container.
- 禁止将电池置入微波炉或压力容器中；
- Do not use the battery in combination with primary batteries (such as dry-battery batteries) or batteries of different capacity, type or brand.
- 禁止与一次电池（如干电池）或不同容量、型号、品种的电池组合使用；

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- Do not use the battery when the battery emits peculiar smell, heating and physical vibration.
- 禁止在电池发出异味、发热、物理振动情况下使用电池；
- Do not pierce the battery casing with a nail or other sharp object, break it open with a hammer, or step on it.
- 禁止用钉子或其它尖锐物体刺穿电池壳体，禁止锤击或脚踏电池；
- Do not directly solder the battery terminals.
- 禁止直接焊接电池端子；
- Do not attempt to disassemble the battery in any way.
- 禁止以任何方式分解电池；
- Do not recharge the battery when it is discolored or deformed, or appears abnormal in any way. If the battery is in use or being recharged, remove it from the device or charger immediately and discontinue the use.
- 如果电池发出变色、变形或出现其它任何异常现象时不得使用，如果电池正在使用或充电，应立即从用电器中或充电器上取出并停止使用；
- Keep the batteries out of the reach of children. If a child somehow swallows a battery, seek medical attention immediately.
- 电池应放在小孩接触不到的地方，如果小孩不小心吞咽电池 应立即寻求医疗救助；
- If the battery leaks or emits an odor, immediately remove it from the proximity of any exposed flame. The leaking electrolyte can ignite and cause a fire or explosion.
- 如果电池泄漏或发出异味，应立即将其从接近明火处移开；泄漏的电解液可能引起火灾或爆炸；
- If the battery leaks and electrolyte gets in your eyes, do not rub them. Instead, rinse them with clean running water and immediately seek medical attention. If left as is, electrolyte can cause eye injury.
- 如果电池漏液后电解液进入眼睛，不要擦，应用水冲洗，立即寻求医疗救助。如不及时处理，眼睛将会受到伤害。

Caution! 注意!

Do not use or store the battery where is exposed to extremely hot, such as under window of a car in direct sunlight in a hot day. Otherwise, the battery may be overheated. This can also reduce battery performance and/or shorten service life.

不要将电池放在极热的地方使用或储存，例如在炎热的天气里，在阳光直射下的车窗下。否则，电池可能过热。这也会降低电池性能和/或缩短使用寿命。

Use the battery only under the specified temperature conditions. Failure to do so can result in reduced performance or a shortened service life. Recharging the battery outside of these temperatures can cause the battery to overheat, explode or catch fire.

只能在规定的温度下使用电池。否则会导致性能降低或使用寿命缩短。在这些温度之外给电池充电会导致电池过热、爆炸或着火。

In case the children use the battery, please instruct them according to the user manual and keep an eye on them to ensure that the battery is used correctly.

当小孩使用电池时，需要按用户说明书的内容教他们，并密切注意他们确保正确使用电池。

If the battery leaks and electrolyte gets your skin or clothing, immediately rinse the affected area with clean running water. If left as is, skin inflammation can occur.

如果电池漏液，电解液弄到皮肤或衣服上，立即用流动的水清洗受影响区域，否则可能导致皮肤发炎。

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For directions on battery installation and removal, read the instruction manual that accompanies the equipment in which the battery will be used.

阅读用电池的装置说明书，正确进行电池的安装与拆卸。

If a device is not used for an extended period, the battery should be removed and stored in a cool and dry place. Otherwise, rusting or reduced performance may occur.

如果设备长期不用，应将电池取出并放置在凉爽、干燥的地方，否则，电池可能生锈或性能变差。

If the terminals of the battery are dirty, wipe them clean with dry cloth before use. Otherwise, solid electrical contact may not be charged with the equipment, and this can cause power outages or failure to charge.

如果电池的端子变脏，使用前用干布擦干净。否则电池会接触不良，从而引起能量损耗或无法充电。

10. Period of warranty (保质期)

Our company promises that we will take the responsibility for the exchange of the product due to the quality problems on the battery itself within a year rather than the problems caused by the misuse of the customers.

本公司承诺如果在一年中由于电池本身的质量问题，本公司将负责进行调换，如果是由于用户误用而产生的问题，不予调换。

11. Battery storage (电池的存放)

The batteries should be stored in accordance with Clause 11 in table 1. If the cell is Stored for a long time (3 months or more), it is strongly recommended that the battery is performed one cycle, the voltage of the cell is recommended from 3.50V to 3.80V, the environment should be low-temperature (normally 0~25°C), dry and no corrosive gas.

电池应当按照表 1 中的 11 条的条件进行存放。如果电池储存时间较长（3 个月或更长），强烈建议电池做一次循环充放电，建议电池电压为 3.50V 至 3.80V，环境应为低温（通常为 0~25°C）、干燥且无污染腐蚀性气体的环境下存放。

12. Note: (注释)

Any other items which are not covered in this specification shall be agreed by both parties.

本说明书未包括事项应由双方协议确定。

13. Appendix(附录)