



**匠芯定智 能启未来**  
CRAFTING INTELLIGENCE POWERING THE FUTURE

南屋科技

Nanwu Technology

NNC12594170 35Ah 锂离子单体电池

Lithium-ion NNC12594170 35Ah

产品规格书

Product Specification

产品型号

Product Model: NNC12594170 35Ah

制表 Prepared by	审核 Checked by	批准 Approved by

## 目录

1. 适用范围 Application Scope.....	2
2. 产品型号 Product Model.....	2
3. 产品尺寸 Product Size.....	2
4. 产品规格 Product Specification.....	3
5. 外观检查 Visual Inspection.....	5
6. 标准测试环境 Standard Test Conditions.....	5
7. 标识 Identification.....	5
8. 存储及其他事项 Storage and Others.....	5
9. 保质期及产品责任 Warranty Period and Product Liability.....	6
10. 文件有效期 Validity Period of Documents.....	6
11. 保密 Confidentiality.....	6
12. 警告及注意事项 Warnings and Cautions.....	6

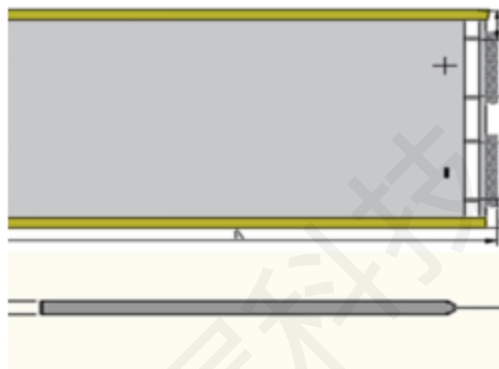
### 1. 适用范围 Application Scope

本产品规格书描述了 NNC12594170 型号锂离子电池产品性能指标。

This product specification describes the performance of NNC12594170 Lithium-ion Batteries.

### 2. 产品型号 Product Model

NNC12594170 35Ah



### 3. 产品尺寸 Product Size

项目 (Item)	描述 (Description)	尺寸 (Dimension)
1	电芯高度 A (Cell Height A)	170±2.0 mm
2	电芯厚度 H (Cell Thickness H)	12±0.3 mm
3	电芯主体宽度 B (Cell Body Width B)	93±1 mm
4	极耳外露长度 (Exposed Tab Length / Tab Exposed Length)	20±1.0 mm
5	极耳厚度 (Tab Thickness)	0.2±0.01 mm
6	正极极耳宽度 (铝转镍) (Positive Tab Width (Aluminum to Nickel))	25±0.05 mm
7	负极极耳宽度 (Negative Tab Width)	25±0.05 mm
8	极耳中心距 (Tab Center Distance)	45±1 mm

### 4. 产品规格 Product Specification

序号	项目 Item	规格要求 Specifications	
1	典型容量 Typical Capacity	34.5Ah	0.2I <sub>1</sub> 充电至 4.3V, 0.2I <sub>1</sub> 放电至 2.7V 0.2I <sub>1</sub> charge to 4.3V, 0.2I <sub>1</sub> discharge to 2.7V
2	标称容量 Nominal Capacity	35.0Ah	
3	标称电压 Nominal Voltage	3.65V	
4	标准充电方式 Standard charging mode	25±2°C 0.2I <sub>1</sub> 恒流充电至 4.3V, 转 4.3V 恒压充电至截至电流 0.03I <sub>1</sub> 25±2°C 0.2I <sub>1</sub> constant current charge to 4.3V, then constant voltage 4.3V charge until charged current reduced to 0.03I <sub>1</sub>	
5	充电电流 Charge Current	标准充电: 0.2I <sub>1</sub> Standard charge: 0.2I <sub>1</sub> 快速充电: 0.5I <sub>1</sub> Rapid charge: 0.5I <sub>1</sub>	
6	充电时间 Charge time	标准充电: 300min Standard charge: 300min 快速充电: 120min Rapid charge: 120min	
7	充电截止电压 Charge ending voltage	4.3V	
8	放电截止电压 Discharge ending voltage	2.7V	
9	工作环境&最大充电电流 Max. Charging Current & Operating environment	0°C~15°C 0.2I <sub>1</sub> 充电到 4.3V; 0.5I <sub>1</sub> Charge to 4.3V 15°C~35°C 0.5I <sub>1</sub> 充电到 4.3V; 1I <sub>1</sub> Charge to 4.3V 35°C~45°C 0.2I <sub>1</sub> 充电到 4.3V; 0.5I <sub>1</sub> Charge to 4.3V	
10	标准放电方式 Standard discharge mode	25±2°C 1I <sub>1</sub> 恒流放电至 2.7V 25±2°C 1I <sub>1</sub> constant current discharge to 2.7V	
11	最大持续放电电流 Max. continuous discharge	3I <sub>1</sub>	
12	最大脉冲放电电流 Max. pulse discharge	5I <sub>1</sub> (≤10S)	
13	工作环境 Operating environment	0°C~45°C, max.90%RH 充电 -40°C~55°C, max.90%RH 放电 贮存温度 Storage Temperature -20°C~+45°C, max.85%RH 小于一个月 -20°C~+35°C, max.85%RH 小于六个月	
14	内阻 Internal Impedance	≤2.0mΩ 标准充电后 AC 1KHz 测试 AC 1KHz after standard charge	
15	电芯重量 Cell Weight	≤405g	
16	能量密度 Energy density	~305Wh/kg	
17	循环寿命 cycle life	0.5I <sub>1</sub> 充 1I <sub>1</sub> 放 300 周≥80% 0.5I <sub>1</sub> charge 1I <sub>1</sub> discharge Cycle Life 300 times ≥80%	
★ C1:1 小时率额定容量(Ah); 1I:1 小时率放电电流, 其数值等于 C1(A)。			

## 5. 外观检查 Visual Inspection

不允许有任何影响电池性能的外观缺陷，如裂纹、裂缝、泄漏等。

There shall be no such defects as scratch, flaw, crack, and leakage, which may adversely affect the commercial value of the cell.

## 6. 标准测试环境 Standard Test Conditions

除非特别说明，本规格书中所有测试均在以下环境条件下进行：

Unless otherwise specified, all tests in this Product Specification are conducted at below conditions:

温度 Temperature:  $25\pm 3^{\circ}\text{C}$

湿度 Humidity:  $\leq 75\%RH$

大气压 Atmosphere: 86KPa~106KPa

## 7. 标识 Identification

7.1 单体电池产品上应有下列标识：

Cell product shall have the following marks:

极性符号+、- Polar symbol: +/-

产品条码(信息包含产品型号、批号、生产日期信息)

Product barcode (information including product model, batch number and date of production)

	<p style="text-align: center;">南屋科技（广州）有限公司 Nanwu Technology (Guangzhou) Co., Ltd</p>
<p style="text-align: center;">File No. NNC12594170 Version 1.0</p>	<p style="text-align: center;">NNC12594170 35Ah 电池产品规格书 Lithium-ion NNC12594170 35Ah Cell Product Specification</p>

## 7.2 包装箱外壁应有下列标志:

Each packing case shall be marked with:

产品名称(锂离子电池)、产品型号、产品批号、产品等级、数量、物料编码

Product name (solid lithium ion cell), product model, product batch number, product grade, quantity, material code

标明防潮、不准倒置、轻放等标志 Moisture-proof, no upside-down and other signs

## 8. 存储及其他事项 Storage and Others

8.1 长期储存 Long Time Storage: 长期储存的电池(超过 3 个月)须置于干燥、凉爽处, 每 6 个月对电池进行一次充放电, 储存电压为 3.45-3.55V。

If the cell is to be stored for a long time (over 3 months), the cell should be stored in dry and cool place. The cell should be charged and discharged every six month. The cell's storage voltage should be 3.45-3.55V.

8.2 其他事项 Others: 任何本规格书中未提及的事项, 须经双方协商确定。

Any matters which have not been covered in this specification should be conferred between the customer and Nanwu Technology (Guangzhou) Co., Ltd..

## 9. 保质期及产品责任 Warranty Period and Product Liability

### 9.1 保质期 Warranty

保质期是从客户验收开始起 12 个月。

 <b>南屋科技</b> NANWU TECHNOLOGY	南屋科技（广州）有限公司 Nanwu Technology (Guangzhou) Co., Ltd
File No. NNC12594170 Version 1.0	NNC12594170 35Ah 电池产品规格书 Lithium-ion NNC12594170 35Ah Cell Product Specification

Warranty period of this product is 12 months from the production date

## 9.2 产品责任 Product Liability

对因没有按本规格书规定操作而导致的意外不负责任，当本规格书有些变动时，本公司会通知购买方。

Nanwu Technology (Guangzhou) Co., Ltd. is not responsible for the troubles caused by mishandling of the cell which is clearly against the instructions in this specification. Nanwu Technology (Guangzhou) Co., Ltd. will notify our customers if there are any changes of the product specification.

## 10. 文件有效期 Validity Period of Documents

本文件自发布之日起至下次修正日止。

The validaiton for this document is from the issue date to the date of the next revision.

## 11. 保密 Confidentiality

本产品规格书在没有得到南屋科技(广州)有限公司的许可时，不能向第三方泄露，禁止复印或转载。 This product specification shall not be disclosed to any third party without the permission of Nanwu Technology (Guangzhou) Co., Ltd.; nor shall it be copied or reproduced.

## 12. 警告及注意事项 Warnings and Cautions

12.1 不要将电池投入火中或加热;

Do not put the cell into the fire or a heater;

12.2 不要将电池分解拆散:

Do not dismantle the cell;

12.3 严禁将电池浸入海水或水中, 保存不用时, 应放置于阴凉干燥的环境中;

Do not immerse the cell in water or seawater, keep the cell in a cool dry environment if it stands by;

12.4 禁止将电池放在热源旁, 如火、加热器等;

Do not use or leave the cell near sources of heat such as a fire or heater;

12.5 充电时请选用锂离子电池专用充电器;

Use the charger specifically for lithium-ion cell when recharging;

12.6 严禁颠倒正负极使用电池:

Do not reverse the position and negative terminals;

12.7 严禁将电池直接插入电源插座

Do not connect the cell directly to an electrical outlet;

12.8 禁止用金属直接连接电池正负极短路;

Do not short-circuit the cell by directly connecting the positive and negative terminals with metal objects;

12.9 禁止将电池与金属(如发夹、项链等)一起运输或贮存;

Do not transport or store the cell together with metal objects such as hairpins, necklaces, etc;

12.10 禁止敲击或抛掷、踩踏电池等;

Do not strike, trample or throw the cell, etc;

12.11 禁止直接焊接电池和用钉子或其它利器刺穿电池;

Do not directly solder the cell and pierce the cell with a nail or other sharp objects;

12.12 禁止在高温下(炙热的阳光下或很热的汽车中)使用或放置电池, 否则可能会引起电池过热、起火或功能失效、寿命减短;

Do not use or leave the cell at high temperature (for example, under the hot sunlight or in a hot vehicle). Otherwise, it can overheat, catch fire, or suffer from performance and life degradation;

12.13 禁止在强静电和强磁场的地方使用, 否则易破坏电池安全保护装置, 带来不安全的隐患;

Do not use the cell in a location with strong electrostatic field or magnetic field. Otherwise, the safety protective device may be damaged, causing safety hazard;

12.14 如果电池发生泄露, 电解液进入眼睛, 请不要揉擦, 应用清水冲洗眼睛, 并立即送医治疗;

If the cell leaks and the electrolyte gets into the eyes, do not rub the eyes, instead, rinse the eyes with clean water, and immediately seek medical attention so as not to cause more injury to your eyes;

12.15 如果电池发出异味、发热、变色、变形或使用、贮存、充电过程中出现任何异常, 立即将电池从装置或充电器中移离并停用;

	<p>南屋科技（广州）有限公司 Nanwu Technology (Guangzhou) Co., Ltd</p>
<p>File No. NNC12594170 Version 1.0</p>	<p>NNC12594170 35Ah 电池产品规格书 Lithium-ion NNC12594170 35Ah Cell Product Specification</p>

If the cell gives off an odor, generates heat, becomes discolored or deformed, or in any way appear abnormal during use, recharging or storage, immediately remove it from the device or cell charger and stop using it;

12.16 废弃之电池应用绝缘纸包住电极以防起火、爆炸；

Be aware that abandoned batteries may cause fire or explosion, tape the cell terminals to insulate them;

12.17 如果电池极柱弄脏，使用前应用干布抹净，否则可能会导致接触不良功能失效。

If the cell terminals are stained, clean the terminals with a dry cloth before use. Otherwise performance degradation may be caused due to the poor connection.

12.18 废弃电池应交予专业回收处理公司进行无害化处理；

Waste batteries should be handed over to professional recycling companies for harmless treatment.

12.19 电池在使用过程中应遵循所在地的法律法规。

During battery usage, the local laws and regulations should be followed.