

## Company Profile

Established in Dongguan in 2018, Yanke Intelligent Technology Co., Ltd. is a national high-tech enterprise that focuses on serving enterprise research and development, universities, and research institutes. It has long been committed to creating a safe, efficient, and intelligent one-stop experimental research and development service platform. After years of development and accumulation, it has become a comprehensive solution provider for basic research on materials and new energy, small and medium-sized trials, testing and evaluation; The product application covers directions such as lithium-ion batteries, sodium ion batteries, fuel cells, solid-state batteries, etc. Yanke Intelligence has established a global service network and delivered equipment to more than 20 countries around the world, providing turnkey engineering solutions for scientists in their laboratories.

Main product series:

Battery research and development experimental preparation equipment (including preparation plans for lithium-ion batteries, sodium ion batteries, solid-state batteries, etc.);

Battery safety testing equipment (testing equipment that complies with international and domestic standards such as GB31241, GB31485, IEC62133, UN38.3, etc.);

A turnkey project for the full process system equipment plan of lithium-ion battery production and preparation, including various battery preparation plans such as buckle, column, soft package, square aluminum shell, etc;

Fuel cell research and development experimental preparation equipment (including preparation schemes for solid oxide, proton exchange membrane fuel cells, etc.);

And pass ISO14001, ISO9001, ISO45001 quality system certification; Obtained the title of National High tech Enterprise; Obtained over 50 certificates, including invention and utility model patents.

Website: [www.yanke181206.com](http://www.yanke181206.com)

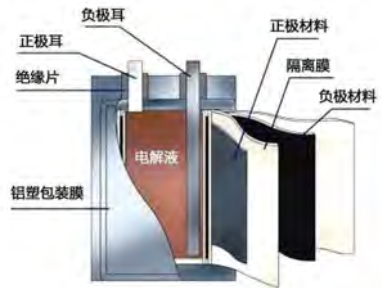


Building an integrated platform for new energy production, education, and research

## Pouch cell introduction

According to the material of the shell, lithium-ion battery cell are divided into pouch cell, steel shell battery cell, aluminum shell battery cell, etc

Pouch cell is a type of battery cell in which a polymer shell is placed on the outer shell of a liquid lithium-ion battery cell, and the battery cells are structurally sealed with aluminum-plastic film.



# Cylindrical cell introduction

Cylindrical cell is a sealing form of battery, and the earliest cylindrical lithium-ion battery cell was invented by Japanese company SONY in 1992 as the 18650 lithium-ion battery cell. It is currently widely used in industries such as power battery cell.



# Prismatic shell cell introduction

Choosing a certain model of aluminum alloy as the power battery casing mainly considers that the alloy meets the following requirements:

1. Sufficient strength (if a certain brand requires a tensile strength of 200MPa).
2. The power battery casing made of this aluminum alloy product has impact resistance, is not easy to break and leak.
3. Corrosion resistance (long service life).
4. Good heat resistance (long-term use at 100 °C).
5. Good thermal conductivity (180W. m-1. K-1).
6. Excellent welding performance.



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Company  
website



Sales  
service

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