

SolarInnovate Energy Solutions

Large cylindrical power lithium battery



Overview

What is a large cylindrical battery?

Large cylindrical batteries feature a steel casing with 550MPa strength—5.5 times that of prismatic aluminum casings (95MPa). Combined with a 1500MPa dual-layer hot-formed steel bottom design and 3500MPa aerospace-grade fiberglass, they achieve crash energy absorption of 1000J—6.6 times the national standard.

What is a cylindrical lithium-ion battery?

Cylindrical lithium-ion battery is a lithium ion battery with cylindrical shape, so called cylindrical lithium-ion battery.

What is the difference between cylindrical lithium battery and lithium pouch cell?

Compared with lithium pouch cell and prismatic lithium battery, cylindrical lithium battery has the longest development time, high degree of standardization, mature technology, high yield and low cost. Cylindrical battery has international standard of specifications and models, mature technology, which is suitable for mass continuous production.

What is a large format lithium ion battery?

In recent years, large format lithium-ion batteries have been developed for applications such as electric vehicles [, , ,]. Large format cells have a number of advantages over smaller form factors.

What are the different types of cylindrical lithium batteries?

There are many types of cylindrical lithium batteries, including 14500, 14650, 18500, 18650, 21700, 26650, 32650, etc. They are widely used in special equipment, medical equipment, instrumentation, handheld equipment, security and communication.

Why are large format lithium-ion batteries becoming more popular?

The demand for large format lithium-ion batteries is increasing, because they can be integrated and controlled easier at a system level. However, increasing the size leads to increased heat generation risking overheating. 1865 and 2170 cylindrical cells can be both base cooled or side cooled with reasonable efficiency.

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