

Cylindrical solid state battery

What is a solid-state battery?

The solid-state battery is the great hope of the automotive industry. By using a solid electrolyte and a lithium metal anode, the energy density should be further increased without compromising the safety of the battery. VARTA is focusing on solid-state batteries with cylindrical cell formats.

What is a cylindrical-type lithium ion secondary battery?

Our cylindrical-type lithium ion secondary batteries are packaged in metal cans and can be used at high rate and maintain high capacity. Murata's FORTELION 24V module is capable of monitoring each battery module's voltage, current, temperature & capacity-value through CAN communication.

Why is PSB23280 a cylindrical all-solid-state battery?

A cylindrical all-solid-state battery achieves its large capacity*1 due to a newly-developed cylindrical exterior body with high sealing property *2, while retaining long-term reliability *3 and heat resistance. Features of the PSB23280 cylindrical all-solid-state battery

Are solid-state batteries better than lithium-ion batteries?

Solid-state batteries (SSBs) are a safer and higher energy density alternative to state-of-the-art lithium-ion batteries (LIBs). While they are currently only produced on a laboratory scale, this provides an opportunity to analyze their environmental impacts before industrialization.

How much CO₂ do all-solid-state batteries produce?

The CO₂ emissions of all-solid-state batteries (ASSB) range from 111 kg CO₂ eq/kWh for NMC811 and LFP chemistry to 123 kg CO₂ eq/kWh for NMC622 cathode chemistry (Popien et al. 2023).

Are solidified gel polymer electrolytes good for Li-ion battery manufacturing?

In addition, in-situ solidified gel polymer electrolytes (GPEs) have shown promise in achieving good electrode-electrolyte interfacial contact and enhanced Li-ion transport while remaining compatible with existing Li-ion battery manufacturing processes [20-25].

At the 13th Science and Technology Conference, Gotion High-tech officially launched two new generation batteries, the "G-Current" 5C ultra-fast charging battery and the "Stellary" high-nickel ternary large cylindrical battery, ...

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