Ultra-thin ceramic rechargeable lithium battery

Ultra-thin solid electrolyte membrane based on PVDF and Li 3 InCl 6 are prepared. Li 3 InCl 6 can reduce the crystallinity of PVDF and provide new Li + migration channels. The solid electrolyte membrane with 15% of Li 3 InCl 6 has the optimal performance. The prepared LiFePO 4 /Li solid-state batteries have a high capacity of 160.6 mAh g -1.

We explored safer, superior energy storage solutions by investigating all-solid-state electrolytes with high theoretical energy densities of 3860 mAh g-1, corresponding to the Li-metal anode.

The EnerCera battery, an ultra-thin and compact Li-ion rechargeable battery developed by ...

The EFL700A39 is a thin film rechargeable lithium battery. The battery has a LiCoO 2 cathode, LiPON ceramic electrolyte and a lithium anode. Speed up your design by downloading all the EDA symbols, footprints and 3D models for your application. You have access to a large number of CAD formats to fit with your design toolchain.

The EFL1K0AF39 is a thin film rechargeable lithium battery. The battery has a LiCoO2 cathode, LiPON ceramic electrolyte and a lithium anode. Table 1: Device summary Symbol Value Capacity 1 mAh V nominal 3.9 V V op 3.0 to 4.2 V R int 80 Ohm I p 15 mA Dimension 25.8 mm x 28.8 mm Thickness 160 µm

High-capacity all-solid-state lithium battery with stable interfaces enabled by ultra-thin polyvinylidene fluoride/Li 3 InCl 6 composite solid electrolyte Author links open overlay panel Huayu Li a, Gaohui Du a b, Haotong Liang a, Qingmei Su a, Di Han a, Wenqi Zhao a, Miao Zhang a, Shukai Ding a, Bingshe Xu a b c

Lithium-ion batteries (LIBs) are one of the most promising emblematic energy storage devices in modern society [1], [2], [3] pursuit of LIBs with better performance, considerable progress has been made on every component [4], [5], [6], [7].As well as the ever-increasing chasing of high-energy-density for battery promotes the using of the ultimate ...

As the world"s first lithium-ion rechargeable battery with an operating temperature of up to 105°C, EnerCera can be used in high-temperature spaces like the engine room of an automobile or a...

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