

# What are the solid-state lithium portable power sources

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OverviewHistoryMaterialsUsesChallengesAdvantagesThin-film solid-state batteriesMakersA solid-state battery (SSB) is an electrical battery that uses a solid electrolyte (solectro) to conduct ions between the electrodes, instead of the liquid or gel polymer electrolytes found in conventional batteries. Theoretically, solid-state batteries offer much higher energy density than the typical lithium-ion or lithium polymer batteries.

Solid-state batteries can use metallic lithium for the anode and oxides or sulfides for the cathode, thereby enhancing energy density. The solid electrolyte acts as an ideal separator that allows ...

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