

SolarTech Power Solutions

Energy storage power supply packaging



Overview

How is the power module packaging supply chain reshaped?

The power module packaging supply chain is continually being reshaped, states Yole Group in its new power electronics report, Status of the Power Module Packaging Industry. New companies are starting to manufacture power modules, and established power module players are expanding their product portfolios and forming new partnerships and M&As.

How big is the power module packaging materials market?

A dynamic supply chain driven by new entrants, strategic partnerships, new locations in Asia, and competitive cost pressure. Key figures: The power module packaging materials market will reach almost \$6.1 billion by 2030. With a CAGR of almost 11% between 2024 and 2030.

What is a power module package?

Power module package is driven by the ever increasing demand for high-efficiency power conversion, power-quality correction, renewable-energy systems, energy-storage systems, and electric vehicles. Continuous advancement in power module performance required innovations in areas of both chip design as well as effective packaging technologies.

Why is power module packaging important?

Advanced materials for circuit boards, magnetics, semiconductors and passives enable reduced power losses and component sizes. However, all of this would have little impact if not for the constant innovation of power module packaging, which ultimately defines the power and current density.

What are the key packaging materials for higher power module performance?

This abstract focus on the innovation on some of key packaging materials such as epoxy encapsulation material, high thermal adhesive material, high reliability chip coating material, and high thermal sheet material, towards

higher power module performance.

How much will the power module packaging materials market cost in 2024?

Key figures: The power module packaging materials market will reach almost \$6.1 billion by 2030. With a CAGR of almost 11% between 2024 and 2030. Packaging materials costs accounted for approximately 32% of the total cost of power modules in 2024.

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