

# Energy storage power supply packaging design

What is the largest packaging material segment in the power module market?

In 2018 the largest packaging material segment was baseplates, followed by substrates. The other 32% was represented by die-attach and substrate-attach materials. Thus, major technological choices in these segments can rapidly impact the overall power module packaging market.

What is power module packaging?

Power module packaging solutions are moving towards high-performance materials and reduction of the number of layers, size, and interfaces, while conserving electrical, thermal, and mechanical characteristics. In terms of substrate, the most common choice for power module packaging is Al<sub>2</sub>O<sub>3</sub> DBC (direct-bonded copper). As shown

How can battery packaging design improve battery safety?

A robust and strategic battery packaging design should also address these issues, including thermal runaway, vibration isolation, and crash safety at the cell and pack level. Therefore, battery safety needs to be evaluated using a multi-disciplinary approach.

How much is the power module packaging material business worth?

The power module packaging material business is worth \$1.2B, a little more than a third of the total power module market. It is a very dynamic market, where continuous innovations and material enhancements and a lot of R&D investment are needed.

How big is the power module packaging market by 2023?

By 2023 the market is expected to be over \$5.5B. This promising market is beneficial for the packaging material business that Yole Développement (Yole) covers in this report, "Power Module Packaging 2018". The power module packaging material business is worth \$1.2B, a little more than a third of the total power module market.

How power packaging is adapting to power application market trends?

Power packaging is continuously adapting to power application market trends. Presentation of detailed analysis of thermal interface materials (TIMs), thermomechanical issues in power modules and case studies and technological innovations 2017-2023 market value for the power electronics field and especially for power modules



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