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## Welding joint form of lithium battery

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In current automotive lithium-ion battery manufacturing, Ultrasonic Metal Welding (USMW) is one of the major joining techniques due to its advantages in welding multiple thin sheets of...

In this type of welding, weld is made by generation of heat. Heat is generated by a concentrated, high energy laser beam directed at the joint to be welded. Due to its ...

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Joining of lithium-ion batteries using laser beam welding: electrical losses of welded aluminum and copper joints

The optimum weld joint shows a well-defined nugget with a shear strength of 338.4 MPa and the electrical contact resistance of 0.052 m?. ... Received in revised form 23 ...

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Battery welding applications, such as those reviewed in this study, present numerous challenges, so characterising the quality of a joint cannot rely on a single quality ...

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leveraging this tendency and implementing a parallel ...

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This paper reviews the fundamental difficulties and latest developments in dissimilar laser welding of steel-copper, steel-aluminum, aluminum-copper, and steel-nickel, ...

The three most common metal-to-metal joints in a lithium-ion battery pack are foil-to-tab, tab-to-tab, and tab-to-bus. All three joints pose joining challenges, but of the three, welding multiple layers of foil to a tab is the most ...

The variable of greatest influence when welding battery packs is the contact resistance between the cell and the connection tab. It is crucial to minimize this variable as much as possible to ...

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