

What materials are used for battery pack brackets?

Lightweight material applications for battery pack brackets include the utilization of aluminum alloy, high-strength steel, and composite materials. Among these options, aluminum alloy materials are the mainstream choice as a result of their lightweight properties.

How is a battery bracket made?

The geometrically reconstructed battery bracket exhibits a clear structure. The lower part of the bracket can be manufactured by stamping, while the lugs can be produced through milling or stamping processes. Welding can be utilized for connecting the bracket with the lugs, thus fulfilling the requirements for mass production within the enterprise.

What is the load-bearing condition of a battery tray bracket?

For simulating the load-bearing conditions of the battery tray bracket under bumpy road conditions, a surface load equivalent to 5 times the gravitational force of the battery was applied perpendicular to the bottom surface of the tray (Z-axis direction). Given the model's scaling factor of 0.2, the load amounted to approximately 980 N.

What does a battery bracket do?

Serving as the primary component responsible for carrying and protecting the power battery, the battery bracket fulfills paramount roles including battery system support, heat dissipation, collision prevention, and bottom contact prevention.

Who makes battery tray profiles?

Wang, Z. Mass production of battery tray profiles by Nanshan Aluminum Company aluminum branch. Light Alloy Process. Technol. 49 (9), 26-26 (2021). Si, F. et al. Lightweight and connection technology of battery pack box. Automot. Craftsm. 1, 34-38 (2019).

What is the maximum displacement of battery lower tray bracket after topology optimization?

The results show that the maximum displacement of the battery lower tray bracket after topology optimization is 3.20 mm, which is slightly higher than before, but still relatively small. The maximum Mises equivalent stress rose to 240.7 MPa post-optimization, but brought about a uniform stress distribution at the bottom of the bracket.

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Among them, the Shandong factory covers an area of 177 mu, the former end bar mainly, with aluminum alloy melting furnace, tilting heat preservation furnace, homogenization furnace, ...

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The invention relates to the technical field of new energy, in particular to an aluminum alloy connecting bracket assembly for a new energy battery, which comprises a supporting...

Aluminum alloys are widely used in new energy vehicles. Aluminum alloys can be used in structural parts and components such as bodies, engines, wheels, etc. Against the background of energy conservation and environmental protection needs and the advancement of aluminum alloy technology, the amount of aluminum alloys used in automobiles is ...

Currently, enterprises utilize aluminum alloy battery brackets, which are severely limited by their heavy weight and high cost. Furthermore, these battery brackets endure heavy loads.

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