

What is a VW 12 module battery pack (HV) exploded view?

A typical Volkswagen 12 Module battery pack (HV) exploded View can be seen below. This Modular structure also means that VW uses almost same auxiliary components other than the battery modules and cells inside. Same Auxiliary Components: Electronic Components like High Voltage Connector Strips, master and Slave BMS.

How does the location of the battery pack affect drivability?

The location of the battery pack on board of the vehicle may affect the position of the vehicle center of gravity, which in turn could affect the vehicle's drivability. In order to lower the possible negative consequences, the battery housing is generally located below the passengers compartment floor.

Does a battery pack cause a dangerous acceleration in an EV?

Furthermore, some special energy-absorbing structures are added for the door sills. In a very recent study, Pan and co-workers concentrated their attention on the impact behavior of the battery pack as a component that, equipping an EV vehicle, is submitted to dangerous acceleration in case of impact.

Does a battery pack have structural problems?

The structural problems have already been considered in the published literature. Luttenbeger and co-workers developed a study concerning the safety behavior of a battery pack in case of impact. They have considered both the frontal impact and the pole side impact according to EuroNCAP standards.

Can a battery pack be deformed?

As already introduced, the battery pack is typically positioned in the underfloor, and it cannot be deformed in any way due to the above mentioned hazard of fire and explosion. In these impact situations, the deck is the part of the body in white structure that is mainly involved.

How does a battery pack affect body stiffness?

The integration of the battery pack's housing structure and the vehicle floor leads to a sort of sandwich structure that could have beneficial effects on the body's stiffness (both torsional and bending).

Download scientific diagram | Exploded view of battery module Source: Compiled by the authors. from publication: Combustion Gas Examination of a Battery Housing in Electrically Driven Heavy...

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Examples of battery pack from Tesla Model Y-implemented solutions: (a)--exploded view of the battery pack; (b)--exploded view of the lower enclosures; (c)--the numbered red arrows show the fasteners locations .

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Prismatic (a) VRLA battery (cutaway view) and (b) monobloc battery (exploded view) adapted from Lindens handbook of batteries [1]. Sodium metal halide (NaMx) batteries are an emerging...

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