

Pack battery protection level





Overview

What are the standards for a battery pack?

There are few standards addressing topics such as ISO7637_1 ; ISO7637_2 ; ISO7637_3 , but as mentioned, more work or regulations are needed. The battery pack, as an individual component with connectors and interfaces, including all cells and electronics, has an acceptable EMC behavior, as defined in relevant standards.

What are the environmental requirements for a battery pack?

The battery pack was subjected to extensive environmental testing, such as temperature, vibration, and humidity. This is discussed in Section IV. Safety is one of the most important requirements of automotive battery packs, as discussed in Section V.

What are the requirements of automotive battery packs?

Safety is one of the most important requirements of automotive battery packs, as discussed in Section V. The battery pack should be electrically and mechanically safe, and different criteria should be fulfilled as required by the standards. Functional safety is also the main tool for realizing the requirements mentioned.

What is a battery pack?

The battery pack is an independent subsystem at the vehicle level that was tested separately. The unit should be able to operate under different electrical and environmental conditions considering safety concerns and regulations. Hence, the battery unit is enclosed by a metallic enclosure that can survive different test cases such as vibrations.



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