

Title: SAE G27 Lithium Battery Generic Packaging

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Abstract: A generic package is a package that is tested and validated using the baseline tests and criteria in the SAE G27, AS6413 standard at a testing level and criteria that exceeds that which a standard package would be tested. The purpose of the generic package is that it can be designed and qualified to be used for a variety of configurations of cells or batteries without having to test each configuration. To ensure safety testing is conducted with a greater number of cells and with cells at 100% SOC for rechargeable cells and with undischarged non-rechargeable cells. The tests are conducted at not less than 150% of the total energy content intended for the qualification of the test article. The test is conducted using cells with the highest energy representing the worst case of propagation risk that the test article is qualified for as a generic package. If the test article is intended to be used to transport batteries, the tested cells must be representative of the component cells of the batteries.

The presentation will address the various innovative technological solutions that packaging companies have developed and offered to lithium battery shippers.