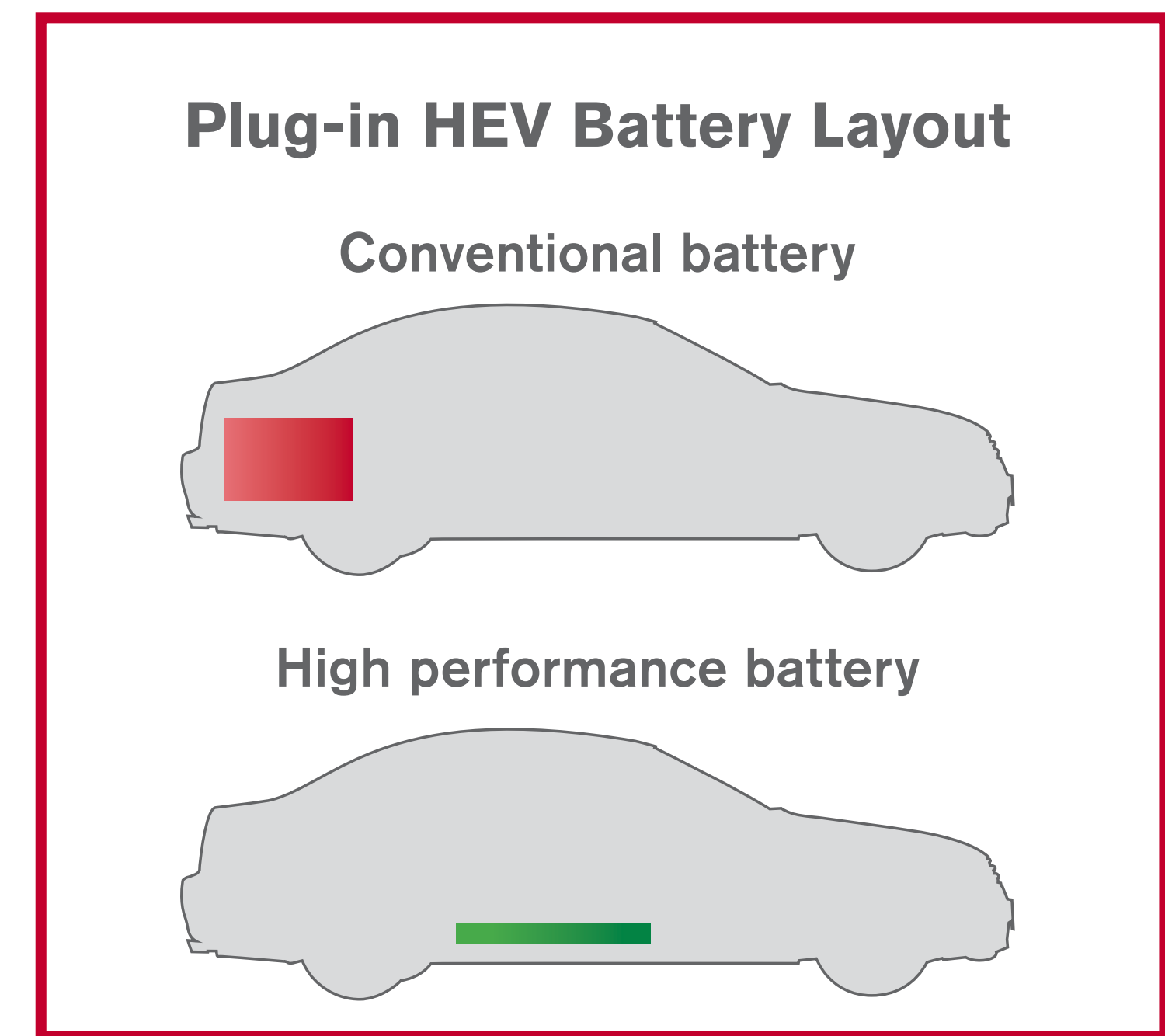
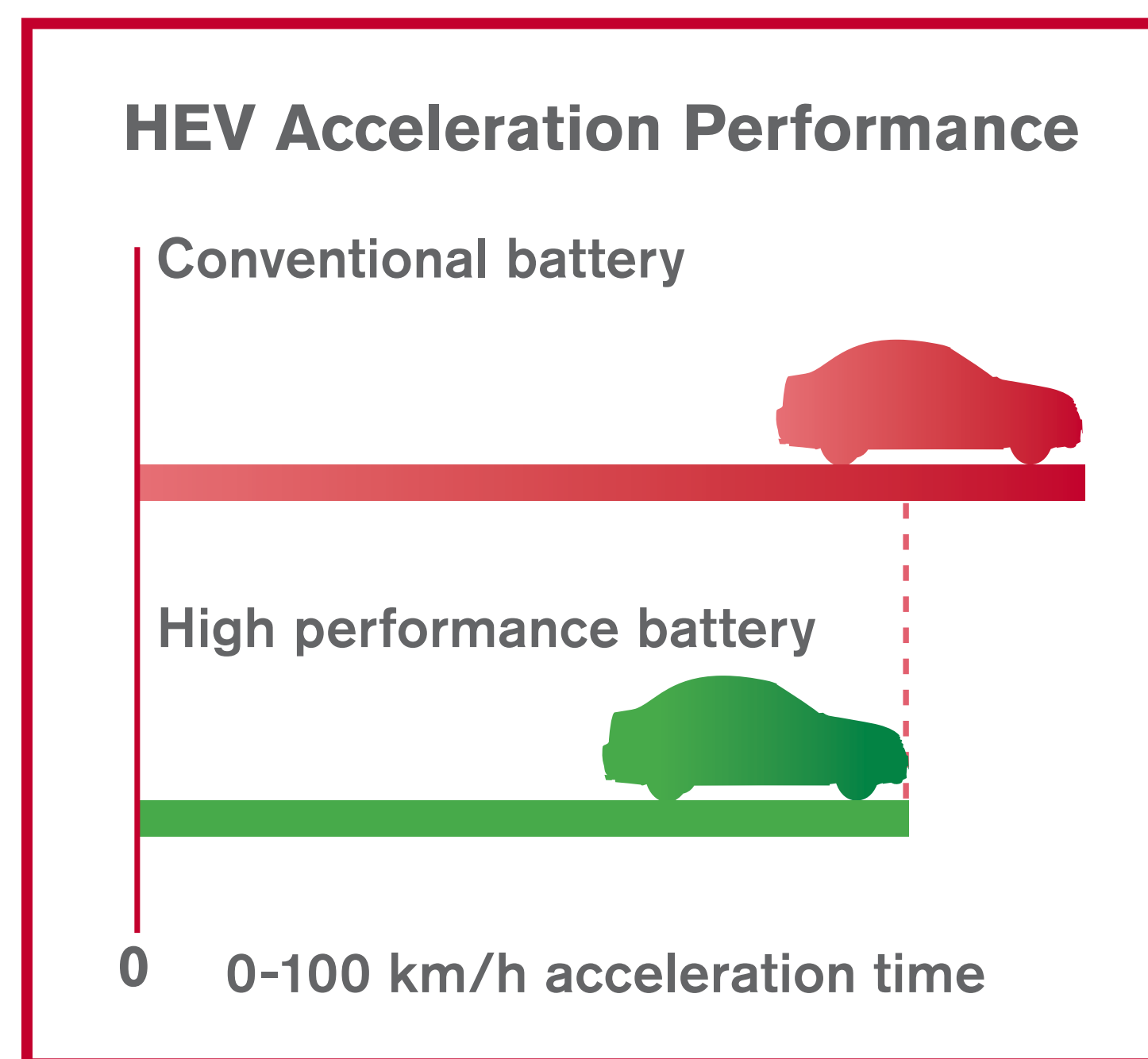
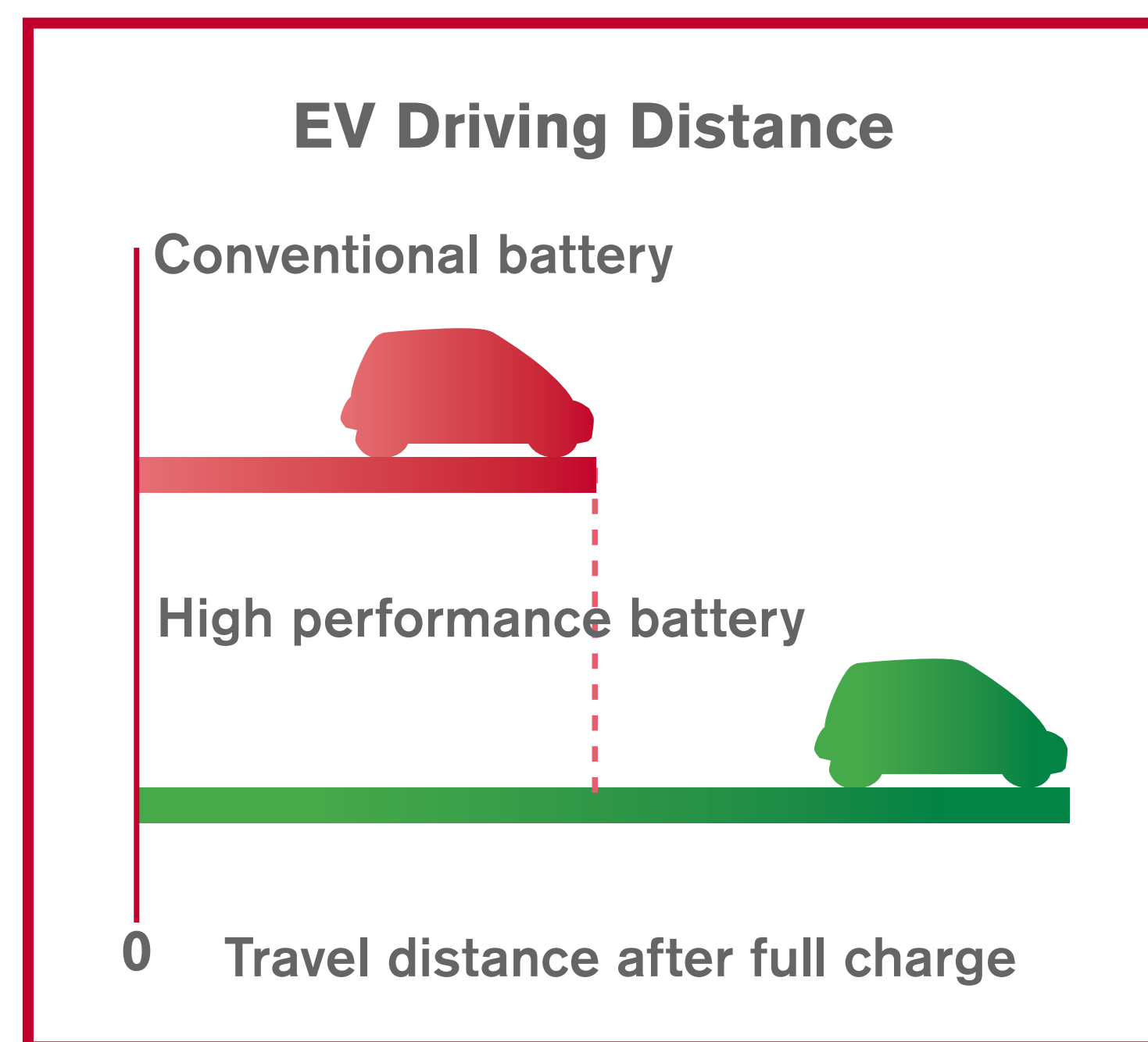


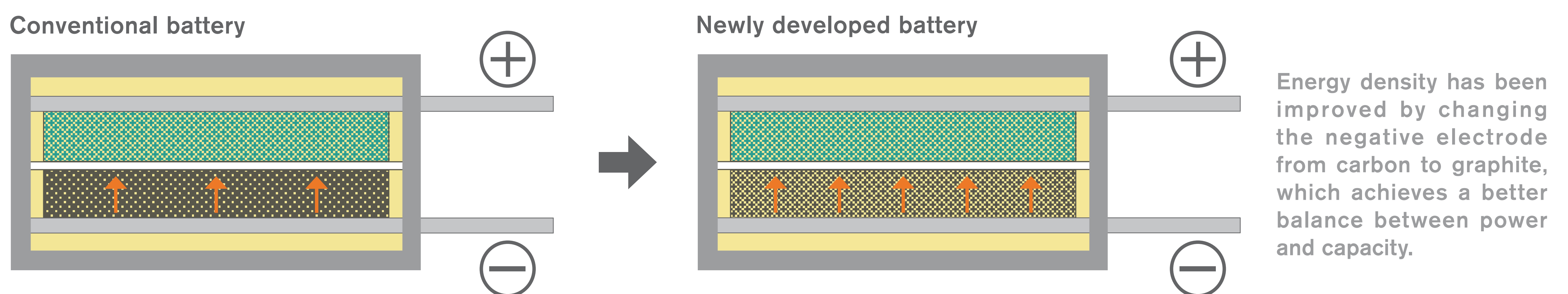
LAMINATED LITHIUM-ION BATTERY

Nissan has developed a new laminated lithium-ion battery for electric vehicles (EVs). It is the same size as a conventional battery, but has double the capacity (140Wh/kg) and 1.5 times the power...even after 100,000 kms usage over five years. The result is double the driving distance, achieved with no increase in battery load.



Features

- Higher power and higher capacity have been achieved through modification of the negative electrode material. This increases energy density and reduces electrode resistance due to nano-level electrode design.

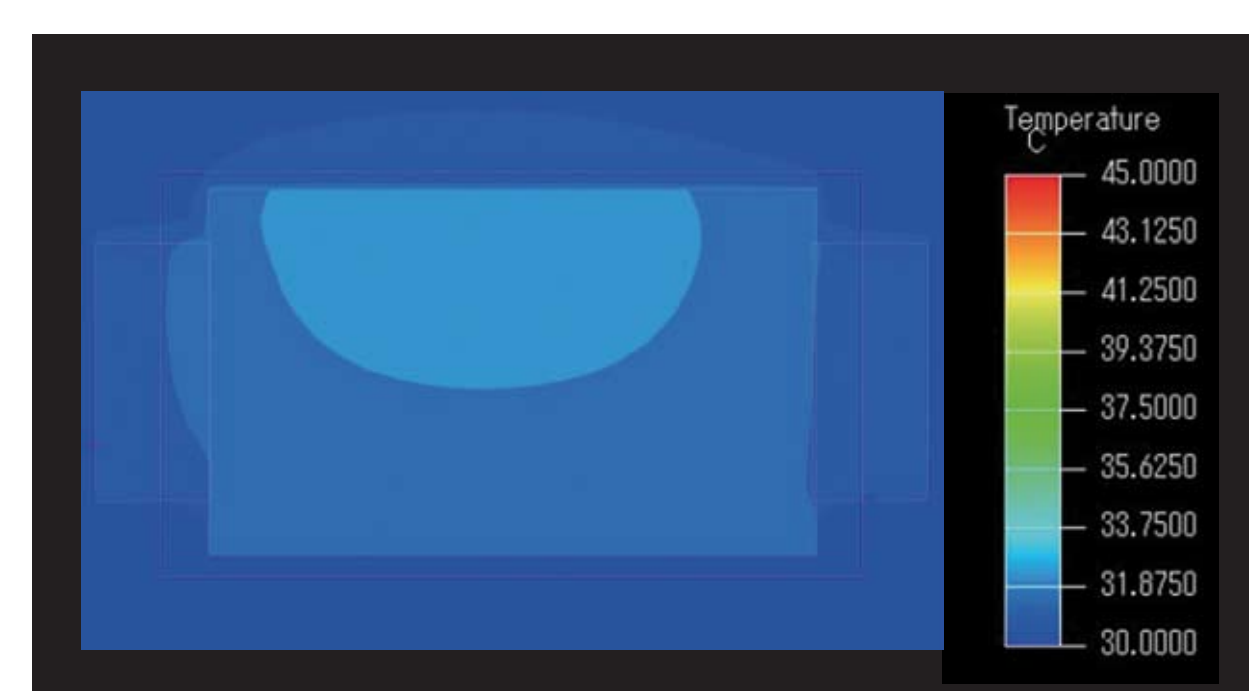


- Three unique technologies deliver the high reliability demanded in vehicles.

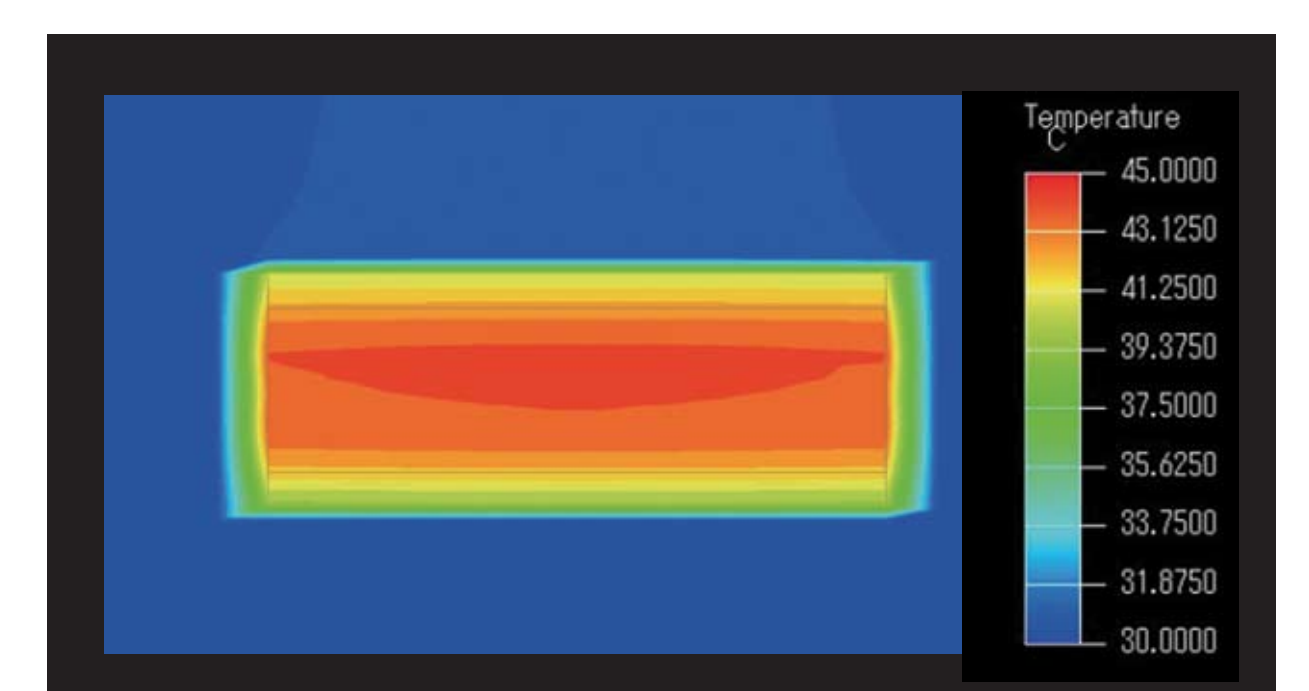
1. Adoption of laminated structure

Due to the superior cooling performance of the laminated structure, temperature increase is limited even when energy density doubles. Furthermore, abnormal electric discharge caused by heat generation is prevented.

Laminated-type battery



Cylindrical-type battery



2. Adoption of manganate positive electrode

The use of manganate electrode material stabilizes the crystal structure and limits decomposition, controlling output and heat generation.

3. Cell management

Stable performance is assured by individual management of each cell's charge condition inside the pack. Safety is guaranteed as circuits can be disconnected individually in case of a failure.