

800v high voltage fast charging inverter





Overview

What is a high voltage inverter?

The inverter is the brain at the heart of the powertrain, it controls the electric motor. It converts Direct Current (DC) from the battery to Alternative Current (AC) to power the electric Motor.

What are the advantages of a 800V charging system?

In the long term, for charging above 150kW, the 800V system demonstrates clear cost advantages. Lower Charging Losses: With the 800V system, the charging current is lower than in 400V systems, resulting in reduced energy losses in the battery, wiring, and charging stations.

Can a 400V inverter be upgraded to 800V?

OEMs that are using existing 400V infrastructure have the option to use Motion Applied's inverter at 400V with the ability to upgrade it to 800V at a later date. That means an OEM can bring 800V vehicles to market while utilising the existing investment in 400V technology, spreading the cost across a wider set of vehicles.

What is the difference between 400V and 800V charging systems?

Lower Fast-Charging Costs: Although there are fast chargers based on 400V systems, 800V systems offer lower costs for high-power charging applications. In the long term, for charging above 150kW, the 800V system demonstrates clear cost advantages.



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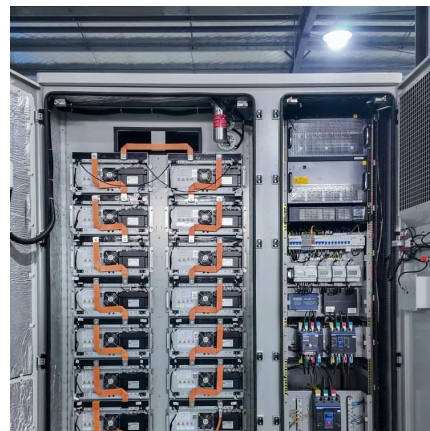
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