

72v inverter loss rate





Overview

What are power losses in a voltage source inverter (VSI)?

The power losses in a voltage source inverter (VSI) are the sum of the additional constant power losses of the local power supply, the inverter circuits as well as the main power conversion losses.

Do traction inverters reduce power losses?

Demand to reduce power losses will continue with the development of inverters that have higher power levels, especially as the number of motors per car increases, and trucks migrate to pure EV. Traction inverters have traditionally used insulated-gate bipolar transistors (IGBTs).

How does power loss affect efficiency?

Efficiency relates to lower power losses, which affect thermal performance and in turn system weight, size and cost. Demand to reduce power losses will continue with the development of inverters that have higher power levels, especially as the number of motors per car increases, and trucks migrate to pure EV.

How can power system engineers improve traction inverter efficiency?

With increasing competition between electric vehicle (EV) manufacturers to develop models with lower cost and longer drive range, power system engineers are under pressure to reduce power losses and improve traction inverter system efficiency, which can improve driving ranges and provide a competitive advantage.



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Measuring the power conversion losses in voltage source inverters

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