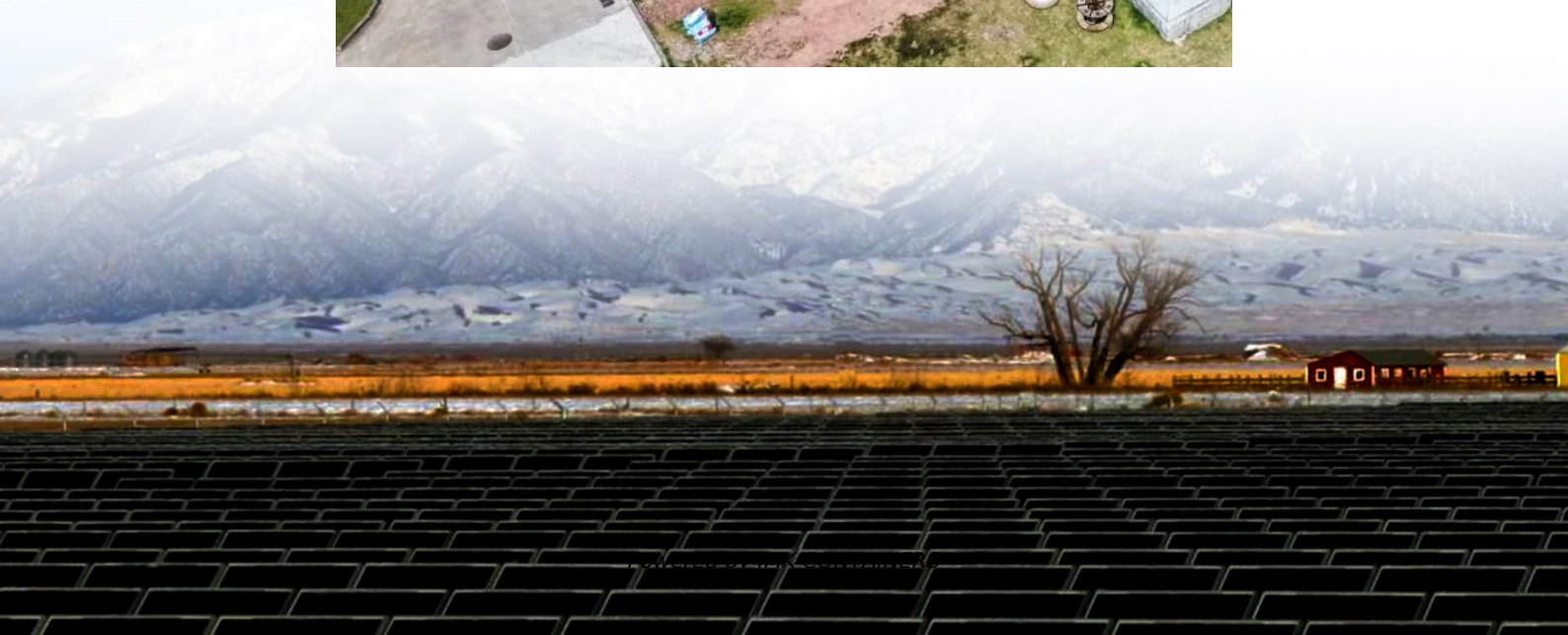


# **High voltage inverter ultra high voltage**





## Overview

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Which EV traction inverter is best?

For EV traction inverter, more efficiency and right performance are key. While IGBT is ideal for cost-optimized drive-train, SiC demonstrates higher efficiency under WLTP partial load scenario. Infineon offers the best scalability in market between IGBT and SiC, allowing customers to freely choose the technology for their needs.

Are Infineon IGBTs compatible with empower inverters?

market. Infineon's industry-leading discrete IGBTs are compatible with Empower's latest generation inverter in terms of packaging. Together with the high current density, ultra-low saturation voltage drop and superior parallel performance, Discrete products has increased power density by more than 20%.

Can topology be used for high-voltage gain DC/DC applications?

The results obtained from the sample prototype along with theory indicate the low current and voltage stresses of the circuit elements and enough high efficiency; thus, the introduced topology can be an attractive selection for high-voltage gain DC/DC applications. Data is provided within the manuscript.

Is a 200W (25v-400v) power converter a viable solution?

Finally, the performance of the proposed converter is justified with the help of a 200 W (25 V-400 V) laboratory sample prototype. To produce power in clean and pollution-free conditions, Renewable Energy Sources (RES) such as fuel cells and photovoltaics would be the vital solution.



## High voltage inverter ultra high voltage

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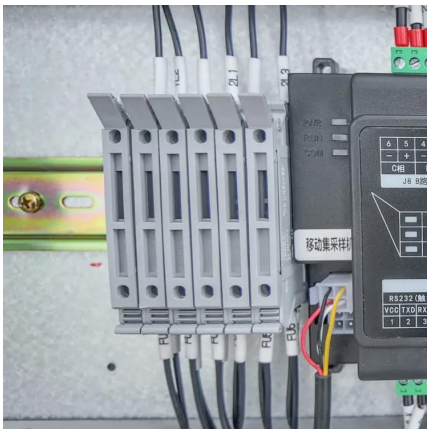
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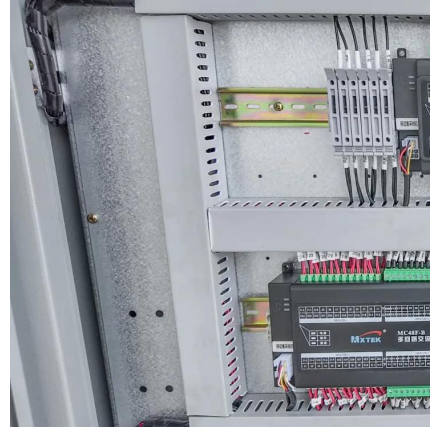
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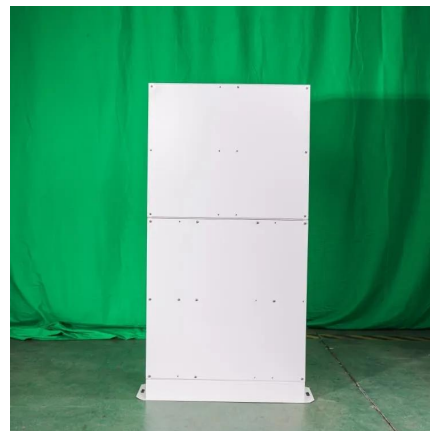
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