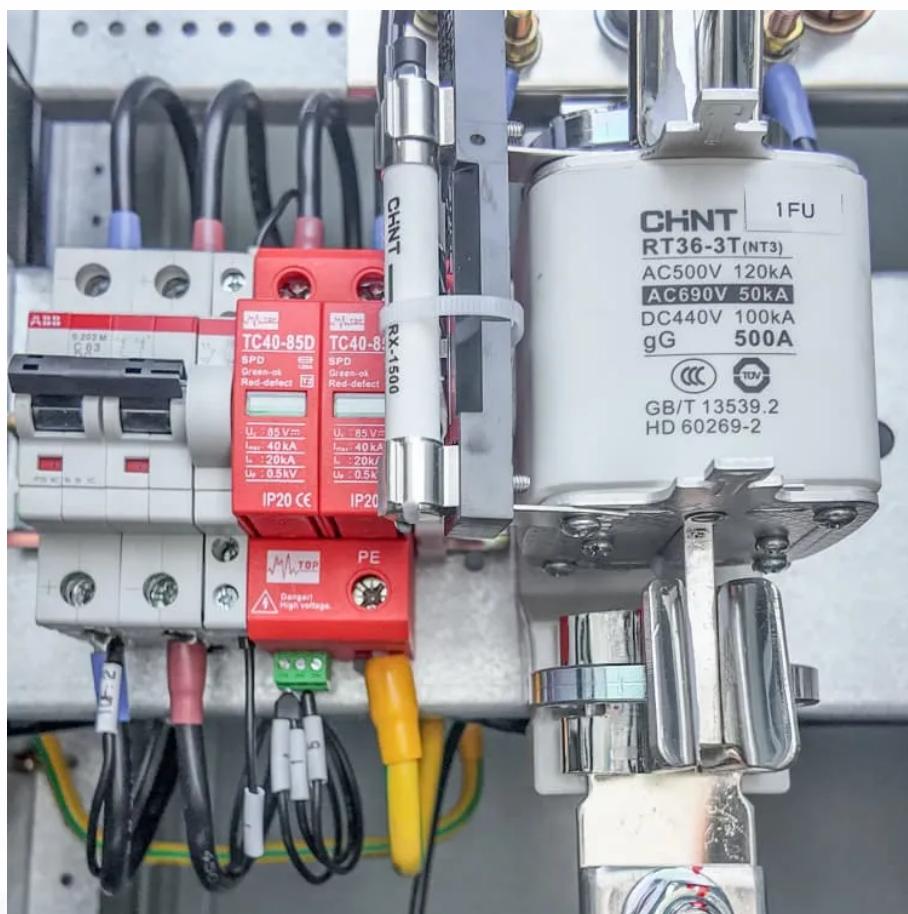




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High power and high current DCDC inverter





Overview

Is a DC-DC converter suitable for operation at high frequencies?

Abstract— This paper introduces a new dc-dc converter suitable for operation at very high frequencies under on-off control. The converter power stage is based on a resonant inverter (the Φ_2 inverter) providing low switch voltage stress and fast settling time.

What is a DC-DC converter used for?

It can be used as a front-end dc-dc converter that can boost variable low voltage from a power source [battery (home/industrial inverter/industrial UPS application), fuel-cell or solar-PV] and interface it to a high-voltage dc-link, which typically feeds an inverter.

How efficient is a DC-DC converter?

The figure demonstrates that the dc-dc converter can achieve high Φ_2 drain efficiency over the entire input range (82.5% to 87.5%). **III. MULTI-STAGE RESONANT GATE DRIVE** In very high frequency power conversion, driving the switching device(s) fast enough and hard enough is a significant challenge.

What is a high frequency inverter?

In many applications, it is important for an inverter to be lightweight and of a relatively small size. This can be achieved by using a High-Frequency Inverter that involves an isolated DC-DC stage (Voltage Fed Push-Pull/Full Bridge) and the DC-AC section, which provides the AC output.



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Two-Stage Hybrid Isolated DC-DC Boost Converter for High Power ...

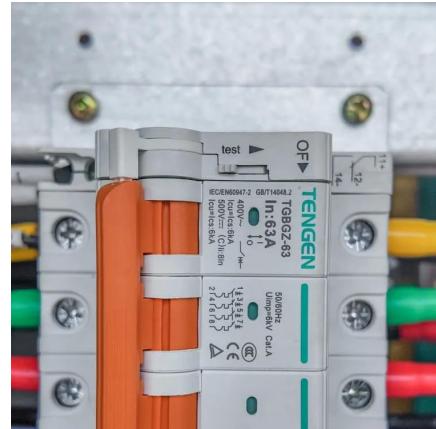
A two-stage hybrid isolated dc-dc boost converter for high power and wide input voltage range applications is proposed. It can be used as a front-end dc-dc converter that can ...

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What will I get out of this session? Purpose: To provide an overview of complete high voltage power solutions in DC-DC Conversions and Traction Inverters Introduction

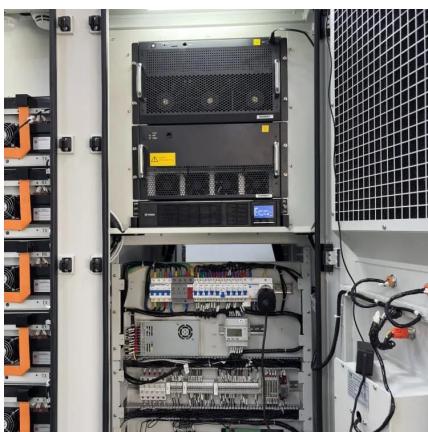
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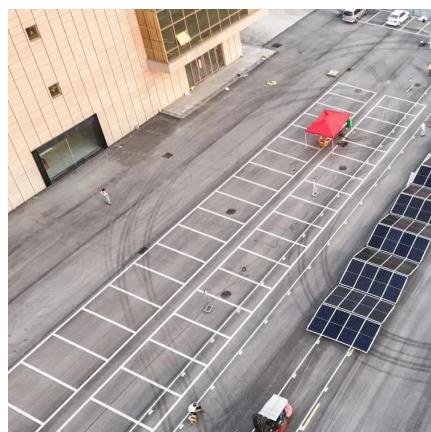
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A Very High Frequency dc-dc Converter Based on a Class ...

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