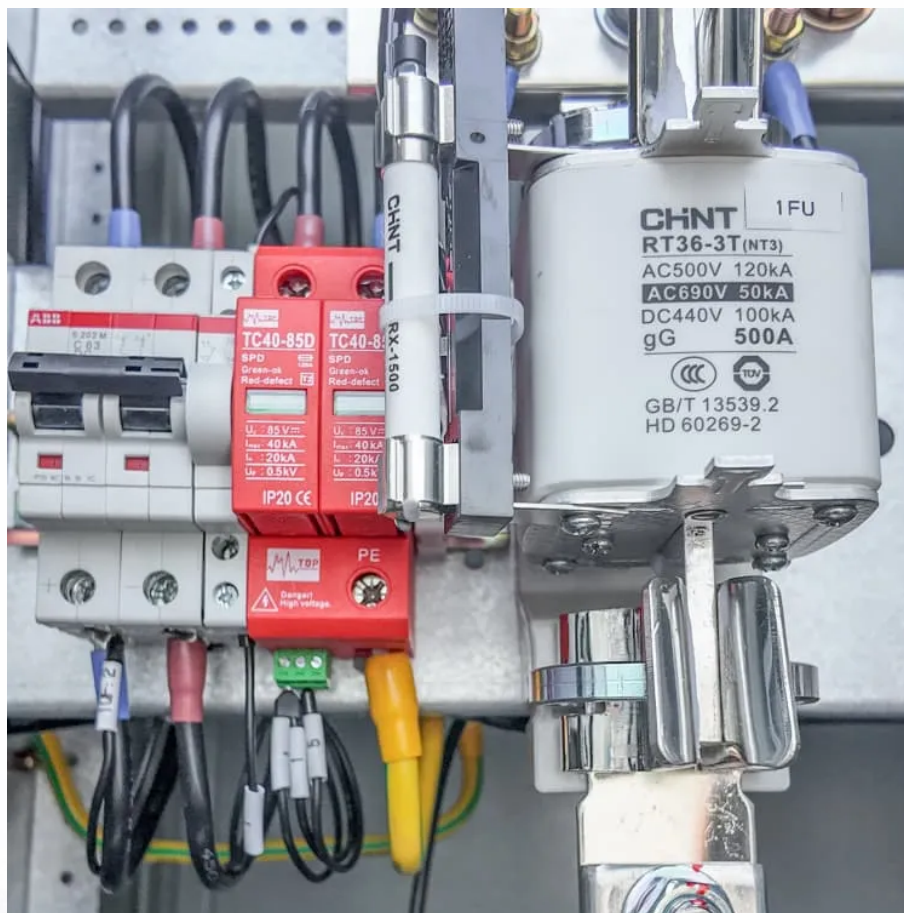


# High power and high current DCDC inverter





## Overview

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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  $\Phi 2$  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  $\Phi 2$  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.



## High power and high current DCDC inverter

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### Power Converters

High Power Inverters 5-500 kilowatt Inverters, AC Controllers and IGBT Inverters are available with Full Bridge, Half Bridge, 3-Phase Bridge, Chopper and Soft Start Circuits. Options include ...

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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 ...

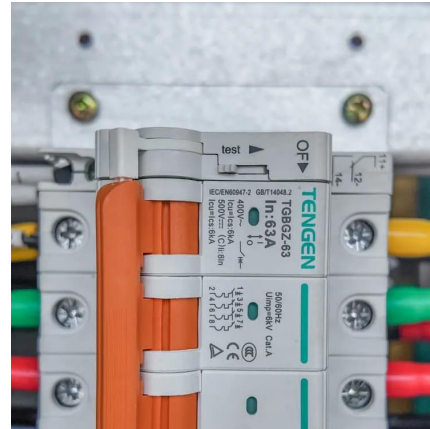
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What will I get out of this session? Purpose: To provide an overview of complete high voltage power solutions in DC-DC Conversions and Tractions Inverters Introduction

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### [A new ultra-high voltage gain DC/DC converter based on ...](#)

In addition, recently, a new modified bipolar high-gain DC-DC converter with low input current ripple and partial trans-inverse specification is suggested in 34.

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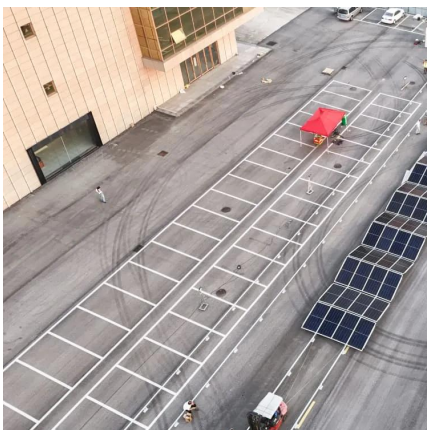
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### [A Very High Frequency dc-dc Converter Based on a Class ...](#)

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### [Voltage Fed Full Bridge DC-DC & DC-AC Converter High ...](#)

ABSTRACT The High-Frequency Inverter is mainly used today in uninterruptible power supply systems, AC motor drives, induction heating and renewable energy source ...

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