

## Kongres Container

# 50W high-frequency inverter production



## Overview

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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.

Which power supply topologies are suitable for a high frequency inverter?

The power supply topologies suitable for the High-Frequency Inverter includes push-pull, half-bridge and the full-bridge converter as the core operation occurs in both the quadrants, thereby, increasing the power handling capability to twice of that of the converters operating in single quadrant (forward and flyback converter).

What is a 50W DC-DC converter?

This reference design is a 50-W isolated DC-DC converter, which has been specifically designed to accommodate the systems which require two rails: one a regulated rail for primary side (36 W) and the other an isolated rail (12 W) for powering the secondary side of the system.

What is a low-cost single-stage inverter?

for energy storage as well. 29.2 Low-Cost Single-Stage Inverter Low-cost inverter that converts a renewable- or alternative-energy source's low-voltage output into a commercial ac output is critical for success, especially for the low-power applications ( 5 kW). Figure 29.2 shows one such single-stage isolated inverter, whi.

What is the efficiency of a power converter?

Percent regulation was excellent. Over the full input voltage and load range, the maximum change in output voltage was 54mV. During moderate to high output current the efficiency was predominately in the low 80% range. The

actual measurements correlated very closely with the loss analysis performed on this converter prior to its design.

What is a bridge type inverter?

The simplest form of an inverter is the bridge-type, where a power bridge is controlled according to the sinusoidal pulse-width modulation (SPWM) principle and the resulting SPWM wave is filtered to produce the alternating output voltage. In many applications, it is important for an inverter to be lightweight and of a relatively small size.

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