

High frequency inverter adjustable current





Overview

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.

How a MOSFET inverter can output a frequency more than 100kHz?

This inverter can output the frequency more than 100kHz by using Power Metal Oxide Semiconductor Field Effect Transistor (MOSFET) as power device. The circuit includes the first resonant capacitor and second one with a one-way short-circuit switch.

What frequency should a resonant inverter output?

This inverter is requested to output frequency from 160kHz to 400kHz. Resonant inverter used for metalworking by the induction heating. In induction heating, high frequency can heat the shallow point, and low frequency can heat the deep point. So when heated depth is replaced, the frequency that inverter must output is different.

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).



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