

Production of wide voltage inverter





Overview

What is a high frequency variable load inverter architecture?

This thesis presents a high frequency variable load inverter architecture along with a physical prototype and efficiency optimizing controller. The inverter architecture consists of two constituent inverters, one connected directly through the load and the other connected through an impedance converter, which acts as a lossless power combiner.

Which inverter has the most load current?

However, as can be seen in the system parameters for load (a), the majority of the load current is supplied by inverter A, which also experiences the majority of the losses. This disparity is due to the voltage dependent losses of the inverters.

Who develops high voltage inverter systems for electric vehicles?

The vehicle manufactures and automotive tier 1 suppliers develop inverter systems for electric vehicles. Discussions were held with their design and research teams during direct meetings to understand future developments. Through these discussions, along with our own research, there are some clear high voltage inverter trends in the EV market. 3.

How do inverters control load impedance?

By controlling the amplitude and relative phase of the two constituent inverters the loading seen by each constituent inverter can be kept in a desirable range for wide variations in load impedance.



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