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Title: DC Discharge Inverter

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To control the voltage so that the voltage does not exceed 50 V (touch safe), the auxiliary power supply has to turn on and power up safety-relevant circuits that can discharge the DC link caps ...

This paper examines the limitations of traditional discharge techniques and proposes a novel hybrid discharge solution that combines the existing winding-based ...

This is because of the special circuit design for the constant power discharge of DC link. It reduces the size of the resistor even more compared to the single pulse application, allowing ...

This paper examines the limitations of traditional discharge techniques and proposes a novel hybrid discharge solution that combines the existing winding-based discharge method with a ...

This setup can discharge the DC-Link capacitor within 4.9 seconds and a peak power of about 160W. The respective spikes, also in current are occurring with every duty cycle step change.

The DC-Link capacitor is a part of every traction inverter and is positioned in parallel with the high-voltage battery and the power stage (see Figure 1). The DC-Link capacitor has several ...

The present invention relates to a safe active discharge circuit to be arranged in parallel with a DC link capacitor connected between the positive and negative lines of a DC power link.

Applications &#187; Automotive &#187; HV Inverter for Electric Vehicles &#187; DC Link - Discharge Circuit

This paper examines the limitations of traditional discharge techniques and proposes a novel hybrid discharge solution that combines ...

Explore the live demonstration of the GD3162's DC Link discharge feature and discover how NXP is enabling smarter, safer and more efficient EV systems through its latest ...

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Migration from GD3160 gate driver to GD3162 with dynamic gate strength to improve efficiency for SiC MOSFET. Moreover, it includes new system features such as power device health ...

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