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Title: Inverter high voltage discharge

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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 ...

We will comprehensively discuss this important safety feature, explaining several methods of high-voltage active discharge in EVs, along with their working principles, ...

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

The proposed solution has a higher discharge rate and reduces the voltage overshoot on the DC-Link capacitor. The proposed hardware is verified using the simulation and experiments ...

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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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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 ...

A DC link capacitor coupled to positive and negative DC busses between a high voltage DC source and an electric vehicle inverter is quickly discharged during a shutdown. An active...

RELAY 1 prevents leakage current in Disconnect Mode. SW1 is used to detect SHORT circuit on HV DC Bus. Capacitor is charging thru SW1 that is activated by MCU. When the HV DC Bus is ...

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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 ...

High-voltage inverter-driven motors, such as those found in EVs, are more prone to partial discharge phenomena. In general, partial discharge occurs when a voltage greater than ...

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