DC Discharge Inverter

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 portfolio of high voltage solutions.

It is designed to safely and efficiently convert the DC power stored in the battery to AC power, which can then be used for various applications, such as charging other electric vehicles, providing power to ...

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 functions, such as to help smooth ...

Embodiments of the present disclosure enable the rapid discharging of a DC link capacitor of a traction inverter in the event that such discharge is called for.

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 discharge...

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 not shorted, SCR2 can be latched ON to enable Pre-charge safely. After Pre ...

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 flyback converter.

Applications » Automotive » HV Inverter for Electric Vehicles » DC Link - Discharge Circuit

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 (active discharge) or ...

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