
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...

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Its core purpose is to prevent the risk of electric shock and secondary hazards caused by residual voltage in the high-voltage system, ensuring the safety of personnel during ...

The inverter has a capacitance that, by the competition rules, we need to discharge when we shutdown the car. For this, we use a 4.7 k? power resistor. I"m in charge ...

The AC output filter is a low pass filter (LPF) that blocks high frequency PWM currents generated by the inverter. Three phase inductors and capacitors form the low pass filters.

This article presents a cost-effective and space-efficient solution that enables fast capacitor discharge by operating the inverter"s SiC mosfets-either discrete devices or power ...

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 ...

To provide operational safety, the DC-Link capacitor must be discharged in two distinct operational scenarios: normal operation, such as after turning off the vehicle, and emergency ...

In case of a failure, the disable command will no longer be present, and the switch will connect the discharge resistor causing a rapid discharge of the capacitor. Such a switch ...

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 ...

Two High Voltage IGBTs IXLF19N250A or IXEL40N400 operating in parallel, to match the current requirements of the pulse load, can handle the capacitor"s abrupt discharge functions.

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