
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.

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 ...

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.

These vehicles require specialised DC V2L discharge inverters for external power supply. DC V2L draws power from the vehicle"s DC charging port, then converts the direct ...

This paper proposes a hybrid DC-bus capacitor discharge strategy relying on both the machine windings and external bleeder circuits to achieve the five-second discharge in minimum ...

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

This specialized product is designed to extract DC power directly from Tesla"s fast-charging port and then convert it into safe, usable AC power using a built-in high-performance ...

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 ...

Core Function: Outputs high-voltage DC power through the vehicle"s DC charging port to power dedicated DC loads such as high-voltage tools and energy storage devices.

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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