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The system incorporates parallel inverters with dual DC-link capacitors connected to a shared DC grid, enabling enhanced reliability and efficient power-sharing.

This article presents a novel dual-input bidirectional quasi-Z-source dc-dc converter (DIBQZSC) using minimum components designed for 1 kW, 400 V, 50 kHz applications in microgrid.

Interconnection planning involving bi-directional converters (BdCs) is crucial for enhancing the reliability and robustness of hybrid alternating current (AC)/direct current (DC) ...

Connecting the DC microgrid to the AC grid requires a bidirectional power supply. This supply handles AC-to-DC conversion with a high power factor and must be able to perform DC-to-AC ...

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In this study, it is suggested to develop and analyse a DC microgrid utilising a DC-DC bidirectional converter. The microgrid is intended to function independently from the electrical grid.

In this paper, a bidirectional DC-AC converter topology is proposed to achieve the composite transmission of power and signals in microgrids. Since the transmitted signals are ...

This paper introduces a unique approach that leverages bidirectional virtual inertia support to enhance the stability and reliability of hybrid AC/DC microgrids under weak grid ...

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