

Title: Microgrid DC-DC Converter

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The paper introduces a versatile and innovative DC-DC and DC-AC converter tailored for DC/AC microgrid applications, utilizing Approximate Dynamic Programming and Artificial Neural Networks ...

What are DC/DC converters? vel to another by stepping it up or down, depending on the system's requirements. In microgrid applications, DC/DC converters play a crucial role in interfacing various ...

In this paper, a new multiport DC-DC converter for DC microgrid applications has been presented. Three sources with two loads are interfaced to the proposed converter with minimum possible elements ...

In a DC microgrid, the bidirectional DC/DC converter (BDC), as an energy conversion unit between the system and the load, can achieve bidirectional energy transmission and dynamically adjust the ...

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.

This paper presents a comprehensive overview of DC-DC converter structures used in microgrids and presents a new classification for converters. This paper also provides an overview of ...

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