

Title: Bidirectional charging of photovoltaic cabinets in ports

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In this study, a novel multi-port bi-directional converter is proposed to be utilized as an off-board EV charging station. Four modes of operation, high gain, and three input/output ...

In this paper, two separate q-Z source-based three-port converters (TPC) with modified bidirectional networks (BDNs) that offer significant voltage ...

Our review focuses on integrating renewable energy sources with multiport converters, providing insights into a novel EV charging station framework optimized for EFC ...

The proposed isolated chopper converter with advanced three-port bidirectional circuits using minimum number switches is investigated for photovoltaic, batteries, and DC microgrid ...

This article proposes a novel approach of merging a basic nonisolated pulsating current source cell (PCSC) with the proposed three-terminal cell to obtain a new family of three-port converters (TPCs), ...

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A comparison of topologies for a three-port converter to charge EVs directly from photovoltaic (PV) panels is presented in this study. The grid-connected EV charger has a nominal rating of ...

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