

Bidirectional charging transaction for photovoltaic containers used in base stations

Bidirectional DC/DC converters enable charging of the battery in the forward mode of operation and facilitate flow of power back to the grid from the battery during reverse mode of operation, which can be used to stabilize ...

The main contributions refer to the calculation of losses and to the evaluation of the power quality aspects through a Power Hardware-In-the-Loop configuration, enabling to take into account the interaction ...

Discover how to design, deploy, and benefit from off-grid EV charging stations with solar panels, battery storage, and smart controls for reliable, sustainable charging.

The objective of this article is to propose a photovoltaic (PV) power and energy storage system with bidirectional power flow control and hybrid charging strategies.

In this paper, two multi-port bi-directional converters are proposed to be utilized as off-board Electric Vehicles (EVs) charging station.

This paper proposes a novel control algorithm to use bidirectional charging of electric vehicles (EVs) in the framework of vehicle-to-grid (V2G) technology for optimal energy transaction and investment.

In this paper, a High Frequency (HF), isolated structure DCC with two power switches is designed for PV-EV applications. The designed structure has bidirectional capability and can also be applied for charging and ...

In recent times, there has been a notable surge in interest towards bidirectional power flow between the grid and EV batteries. Bidirectional converters stand as the fundamental technology, empowering vehicles to ...

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 ports are the main ...

Bidirectional charging describes the technology of not only charging an electric vehicle from the grid, but also feeding electricity back into the grid or to consumers. This is often referred to as Vehicle-2-Grid (V2G) or ...



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