

Title: Bidirectional charging of photovoltaic containers for power stations

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This paper presents the design and simulation of a bi-directional battery charging and discharging converter capable of interacting with the grid.

This paper introduces a new bidirectional vehicle-to-grid (V2G) control strategy for energy management of V2G charging points equipped with photovoltaic systems (PVs), ...

Renewable energy-based electric vehicle (EV) charging systems have become increasingly popular in recent years, particularly in commercial and industrial environments. ...

Bidirectional charging, such as Vehicle-to-Grid, is increasingly seen as a way to integrate the growing number of battery electric vehicles into the energy system. The electrical ...

This paper presents the design and simulation of a bi-directional battery charging and discharging converter capable of ...

Solar-powered bidirectional charging of an electric vehicle has three different modes of operation. The first mode of operation is "solar-powered electric vehicle charging" in which the vehicle is ...

This paper introduces a new bidirectional vehicle-to-grid (V2G) control strategy for energy management of V2G charging points ...

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.

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