

Bidirectional charging of photovoltaic containers for bridges

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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.

The solar-powered bidirectional charging system for electric vehicles is a ground-breaking solution at the confluence of sustainable mobility and energy efficiency.

ELECTRIC CARS AS ROLLING CHARGING STATIONS: In the "ROLLEN" research project, Fraunhofer IFAM and its partners have shown how electric vehicles with bi-directional ...

Based on this study, the dual-active bridge was chosen for implementation in this reference design, owing to the ease of bidirectional operation, modular structure, competitive efficiency, ...

This paper presents a novel PV-tied Adaptable Z-Source Inverter (AZSI) for multiport EV charging. The modified split capacitor Z-source impedance networks ensure ...

This comparison establishes the proposed STC-DAB converter as a superior choice for EV battery charging, particularly when considering bidirectional power flow, energy ...

Therefore, this paper presents a novel design of a dual active bridge-based bidirectional converter with logical control for an electric vehicle application. The logical control ...

This project studies the technologies involved in the charging process of EVs and designs a bidirectional DC-DC converter of an off-board EV charger. An isolated dual active ...

Results of a comparative environmental impact assessment show the environmental impacts of unidirectional

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(V1G) and bidirectional charging infrastructure (V2G) ...

This project studies the technologies involved in the charging process of EVs and designs a bidirectional DC-DC converter of an off ...

By addressing these factors, the paper aims to provide an initial roadmap for realizing the practical benefits of bidirectional charging technology in Dresden's urban context, contributing ...

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