

Solar-powered containers used for bidirectional charging in subway stations

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

As a result, the proposed bidirectional high gain charger gives a cost-effective, compact, highly reliable, and efficient charging option for LEV batteries and is readily applicable for the active ...

The SCU integrated container solution integrates charging, integrated energy storage, power distribution, monitoring and temperature control systems inside, and has smart ev charging ...

This work aims to design a robust and compact off-board charging configuration using a Scott transformer connection-based DAB (STC-DAB) converter, which can utilize the full generated ...

This paper presents a novel approach to bi-directional EV fast charging by integrating solar energy and ultra-wide bandgap power devices, aiming to enhance both the sustainability and ...

A Modular Bidirectional Topology for Grid-Tied PV Powered EV Chargers with Isolated Single-Stage Sub-Modules | IEEE Conference Publication | IEEE Xplore

For the bidirectional charging system depicted in Fig. 4 b, the PV system charges the EV battery via unidirectional charging but introduces a discharging functionality to manage the energy distribution ...

This project focuses on the design and simulation of a bidirectional converter for solar-powered EV charging stations, enabling both grid-to-vehicle (G2V) and vehicle-to-grid (V2G) energy transfer.

It is evident that conventional fuel-based charging infrastructures are economically impractical and lack organizational cohesion in light of the proliferation of EVs. An EV charging ...

In this paper, a power management technique is proposed for the solar-powered grid-integrated charging station with hybrid energy storage systems for charging electric vehicles along both AC and ...



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