
Product Quality of Off-Grid Solar Container Bidirectional Charging for Oil Refineries

The OGCS proposed in the paper has solar energy as the primary source and a backup battery for storage system. An Interleaved Boost Converter (IBC) boosts the voltage ...

This paper introduces a cutting-edge solar photovoltaic (PV) tied electric vehicle (EV) charging system integrating a bilateral chopper. The system aims to optimize energy utilization and ...

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

ABSTRACTElectric vehicle (EV) charging infrastructure in India is witnessing rapid expansion. However, it predominantly supports unidirectional power flow, thereby restricting functionalities ...

A Dual control strategy for improved power quality in grid-tied off-board bidirectional electric vehicle charger Satyabrata Behera, Venkata Ramana Naik N, Anup Kumar Panda, ...

The increasing popularity of electric vehicles (EVs) presents a promising solution for reducing greenhouse gas emissions, particularly carbon dioxide (CO₂), fro

The charger facilitates bidirectional active power exchange in grid-to-vehicle (G2V) and vehicle-to grid (V2G) operating modes. Furthermore, the charger provides other ...

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Schematic representation of a bidirectional EV charging system integrating conventional (coal, oil, natural gas) and renewable (solar) energy sources has been shown. ...

A battery station is required for continuous operation; however, the Photovoltaic-based OFF grid charging station can only operate during the day. Therefore, the three-port ...

This work addresses critical technical challenges including power quality enhancement, voltage stability, and coordinated energy management commonly associated ...

With the increase in demand for generating power using renewable energy sources, energy storage and interfacing the energy storage device with the grid has become a major ...

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