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Island electrical networks often face stability and resilience issues due to their weakly meshed structure, which lowers system inertia and compromises supply continuity. This challenge is ...

The growing demand for low-emission maritime transport and efficient onboard energy management has intensified research into advanced control strategies for hybrid shipboard microgrids. These systems integrate both AC and DC power ...

The measurement methods of inverter output power are two key parameters, KW and KVA. KW is the unit of active power, which represents the power that actually does work in the circuit, that ...

Nigeria's persistent energy crisis marked by frequent national grid failures, high electricity tariffs, and rising fuel costs has intensified the need for alternative power solutions.

This paper presents a standalone system that utilizes a capacitive isolated series resonant converter using an extremum-seeking control algorithm to extract the maximum power from PV panels. While resonant converters have been used ...

Detroit, July 16, 2025 (GLOBE NEWSWIRE) -- The global EV inverters market size was valued at US\$17.0 billion in 2024 and is projected to reach US\$40.4 billion by 2031, witnessing a market ...

Utilizing waste heat from water-cooled data centers for dehumidification through desiccant coated heat exchanger (DCHE) can not only decrease energy consumption of dehumidification, but ...

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