

**Air-core coupled inductor based modular solid-state circuit breaker with reduced components for DC buildings**  
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**Comparative evaluation of dual-purpose converters suitable for application in dc and ac grids**  
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**Comparison of performance of phase-shift and asymmetrical pulse width modulation techniques for the novel galvanically isolated buck-boost dc-dc converter for photovoltaic applications**  
**Vinnikov, Dmitri; Chub, Andrii; Kosenko, Roman;** Zakis, Janis; **Liivik, Elizaveta** IEEE journal of emerging and selected topics in power electronics 2017 / p. 624-637 : ill <https://doi.org/10.1109/JESTPE.2016.2631628> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Distributed price-based power management for multibuses DC nanogrids EEMS**  
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**Feasibility study of three-phase modular converter for dual-purpose application in DC and AC microgrids**  
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**Holistic cyber-physical approach for the performance evaluation of communication and control systems in DC microgrids**  
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**Implementation of global maximum power point tracking in photovoltaic microconverters: A survey of challenges and opportunities**  
**Vinnikov, Dmitri; Chub, Andrii;** Kosenko, Roman; **Sidorov, Vadim;** Lindvest, Andre IEEE journal of emerging and selected topics in power electronics 2023 / p. 2259-2280: ill <https://doi.org/10.1109/JESTPE.2021.3137521> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Implementation of protection features for a modular bidirectional solid-state battery disconnecter**  
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**Modified inductive multi-coil wireless power transfer approach based on Z-source network**  
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**Novel family of flying inductor-based single-stage buck-boost inverters**  
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**Three-level T-type qZ source inverter as grid-following unit for distributed energy resources**  
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