

Adaptive frequency-based power management for off-grid hybrid photovoltaic converters

Gonschorowsk, Ezequiel; Cardoso, Rafael; **Carvalho da Silva, Edivan Laercio**; Stein, Carlos Marcelo De Oliveira; Carati, Emerson Giovanni; Denardin, Gustavo Weber; da Costa, Jean Patric *Eletronica de potencia* 2024 / art. e202440
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Addressing cross-coupling issues in magnetically integrated three-port DC-DC converters

Carvalho da Silva, Edivan Laercio; Blinov, Andrei; Sohail, Umer; **Chub, Andrii** 2024 IEEE 21st International Power Electronics and Motion Control Conference (PEMC) 2024 / 5 p <https://doi.org/10.1109/PEMC61721.2024.10726373>

Air-core coupled inductor based modular solid-state circuit breaker with reduced components for DC buildings

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Alalisvoolu tagasitulek - unistus või reaalsus?

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Analysis of holdup time for DC grid-forming isolated active front-end converters

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Analysis of the use of supercapacitors and batteries as energy storage elements for off-grid hybrid photovoltaic inverters

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Comparative evaluation of a DAB converter and SRC for DC buildings application

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Comparison of decoupling control strategies for multiple active bridge DC-DC converter

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Dynamic reconfiguration for wide output voltage range isolated buck-boost PFC converter

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Extended ZVS-On/ZCS-Off range for CF-DAB converter under DCM operation for residential energy storage systems

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Grid integration of DC buildings : standards, requirements and power converter topologies

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Hybrid inverter and control strategy for enabling the PV generation dispatch using extra-low-voltage batteries

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Multi-port i-AFE converter for grid-interactive buildings: design requirements and efficiency evaluation

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Overview of single-stage isolated AC-DC topologies for interfacing DC and AC grids

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P3R : partial power postregulated gridforming converter for prosumer DC buildings

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Three-phase bidirectional isolated AC-DC matrix-converter with full soft-switching range

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Using electric vehicles to enhance power supply resilience of buildings during emergencies and critical situations

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