

The DC transformer power electronic building block : powering next-generation converter design

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FCS-model predictive control of a quadratic buck converter for more efficient data centers

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Holistic cyber-physical approach for the performance evaluation of communication and control systems in DC microgrids

Véliz, Antonio; Contreras, René; Riffo, Sebastián; Restrepo, Carlos; Garcés-Ruiz, Alejandro; **Chub, Andrii**; González-Castaño, Catalina; Flores-Bahamonde, Freddy IEEE journal of emerging and selected topics in power electronics 2025

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A review of communication protocols and control strategies in DC microgrids : an experimental validation focus

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Sliding mode based control of dual boost inverter for grid connection

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Startup implementation in universal power electronics interface with dual-standard output for DC microgrid applications

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