

Analysis of design requirements and optimization possibilities of partial power converter for photovoltaic string applications in DC microgrids

Chub, Andrii; Hassanpour, Naser; Yadav, Neelesh; Jalakas, Tanel; Blinov, Andrei; Vinnikov, Dmitri IEEE Access 2024 / p. 14605-14619 <https://doi.org/10.1109/ACCESS.2024.3354375> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Analysis of series partial power converter in transient and steady-state operation modes

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Comparison of full power and partial power buck-boost DC-DC converters for residential battery energy storage applications

Hassanpour, Naser; Chub, Andrii; Blinov, Andrei; Vinnikov, Dmitri 2022 IEEE 16th International Conference on Compatibility, Power Electronics, and Power Engineering (CPE-POWERENG) 2022 / 6 | <https://doi.org/10.1109/CPE-POWERENG54966.2022.9880862>

Design and Control of Bidirectional Step-Up/Down Partial Power Converters for DC Microgrid Applications = Alalisvoolu mikrovõrkudele osavõimsuse töötusega kahe suunalise tõste-langetusmuunduri projekteerimine ja juhtimine

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Droop control implementation in bidirectional step-up/down Partial power converter for battery energy storage applications

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A hybrid modulation approach for step-up/ down partial power converter with improved MPPT efficiency around zero partiality

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Maximum power point tracking algorithm for step-up/down partial power converters with improved performance around zero partiality

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Performance evaluation of step-up /down partial power converters based on current-fed DC-DC topologies

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Performance evaluation of step-up/down partial power converters based on current-fed DC-DC topologies

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A series partial power converter based on dual active bridge converter for residential battery energy storage system

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A single-phase high-frequency isolated quasi-Z-source AC-AC converter without commutation problem and step-change frequency operation

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Soft start and protection of bidirectional buck-boost partial power converter

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Step-up current-source partial power converter for PV systems

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Step-up/down partial power converter with enhanced MPPT efficiency around zero partiality

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