

An improved nine-level switched capacitor-based inverter with voltage boosting capability and limitation of capacitor current spikes for PV applications

Vosoughi Kurdkandi, Naser; Marangalu, Milad Ghavipanjeh; Naderi, Yahya; **Husev, Oleksandr;** Hosseini, Seyed Hossein; Siwakoti, Yam P.; Mehrizi-Sani, Ali IET renewable power generation 2023 / p. 725-749 <https://doi.org/10.1049/rpg2.12630> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A new five-level switched capacitor-based grid-connected inverter with common grounded feature

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A new high step-up NPC-based switched-capacitor seven-level grid-tied inverter for PV applications

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A new seven-level transformer-less grid-tied inverter with leakage current limitation and voltage boosting feature

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A new single-phase flying inductor-based common grounded converter for dual-purpose application

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A new six-level transformer-less grid-connected solar photovoltaic inverter with less leakage current

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