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Numerical simulation of open-phase operation of an active three-phase boost converter with power factor correction for an aircraft electric generator

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Numerical simulation of transient operation modes of an Active Three-Phase Boost Converter with Power Factor Correction was performed. Using the numerical model in the LTSpice program, the effect of reducing load capacitor voltage ripple on the transient operation of the device is shown.

Keywords: power factor corrector, boost converter, transient mode, numerical simulation.

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