

An analysis of asymmetrical rnsic converter with capacitors on the AC side for high and medium power

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Abstract

In this paper a topology of an asymmetrical converter having capacitors connected on the AC side, using a rectifier with near sinusoidal input currents (RNSIC-2), is presented. Its configuration includes inductors and capacitors in conjunction with three phase diode bridge rectifier for improving the waveform of current drawn from the utility grid. The performances of the proposed converter are studied and compared with other approaches..

Keywords: *capacitors; rectifiers; voltage; active filters; diodes; bridge circuits; passive filters*

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