

IMPLEMENTATION OF MULTI RESONANT FORWARD CONVERTER USING EMBEDDED CONTROLLER

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Abstract

In this paper, simulation and implementation of high efficiency, high power density, active-clamp forward converter with zero voltage switching multi resonant converter is presented. The structure of the proposed converter is the same as that of the conventional active-clamp forward converter. The objective of this converter is to minimize the size of transformer and filter. The proposed converter can achieve high efficiency and low electromagnetic-interference noise resulting from the soft switching. The operational principle simulation and experimental results are presented. The Experimental results are compared with the Simulation results.

Keywords : DC-DC power conversion, power distribution, Pulse width modulated power converters.