

CLOSED LOOP CONTROLLED PFC BOOST CONVERTER WITH EMI FILTER

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Abstract

This paper deals with the simulation and implementation of Boost Power Factor Correction (PFC) Converter along with Electro Magnetic Interference (EMI) Filter. The Boost Converter of PFC Circuit is analyzed, designed and simulated with resistive load. Near unity power factor is obtained by using Boost PFC Converter with EMI Filter. The laboratory model is implemented and the experimental results are obtained. These experimental results are correlated with the simulation results.

Keywords: Power Factor Correction, Electro Magnetic Interference, diode, rectifier, boost converter.