DIGITAL SIMULATION OF BOOST CONVERTER WITH ACTIVE CLAMPING USING SIMULINK

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Abstract

This paper deals with simulation of closed loop PFC converter with active clamping. It reduces switching losses by using soft switching. A new closed loop model has been developed using MATLAB. Open loop and closed loop systems are simulated using SIMULINK and the results are presented. This converter has advantages like improved power factor, reduced hardware in power circuit and better regulation. The simulation results are consistent with the theoretical results.