

LCL-T RESONANT DC-TO-DC CONVERTER FOR STAND ALONE WIND ENERGY SYSTEM

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Abstract

This paper deals with simulation of DC-to-DC converter for stand-alone wind energy system. The LCL resonant inverter system and DC- to- DC converter system are simulated using MATLAB simulink power system blocks. This converter has advantages like reduced transformer size, reduced filter size and current source characteristics. The simulation results are compared with the analytical results. The Simulink circuit model for closed loop system is developed.

Keywords : Converter, Resonant Inverter.