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DESIGN FABRICATION AND TESTING OF BACK-TO-BACK CONVERTER FOR DOUBLY FED INDUCTION GENERATOR BASED WIND ENERGY CONVERSION SYSTEM

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Abstract

This paper describes the design, fabrication and testing of back-to-back converter used in doubly fed induction generator (DFIG) based wind energy conversion systems. In this work detail design of components of back to back converter is explained. The hardware module of this back-to-back converter is fabricated in the departmental laboratory. Primary tests required on this back–to-back converter are taken. dSPACE platform is used for implementing the control. Results show that fabricated back-to-back converter works satisfactorily.

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