



International Journal on Recent Researches In Science, Engineering & Technology

(Division of Electrical and Electronics Engineering)

A Journal Established in early 2000 as National journal and upgraded to International journal in 2013 and is in existence for the last 10 years. It is run by Retired Professors from NIT, Trichy. It is an absolutely free (No processing charges, No publishing charges etc) Journal Indexed in JIR, DIIF and SJIF.

Research Paper

Available online at: www.jrrset.com

Chief Editor : Dr. M.Narayana Rao, Ph.D., Rtd. Professor, NIT, Trichy.

ISSN (Print) : 2347-6729

ISSN (Online) : 2348-3105

Volume 3, Issue 4,
April 2015.

JIR IF : 2.54

DIIF IF : 1.46

SJIF IF : 1.329

Design of matrix converter for aerospace application

Jency John, Jamna. A

Electrical and Electronics Engineering, Anna university

MNM Jain engineering college, Chennai, India.

jencyjohn.c@gmail.com jamnaa@gmail.com

Abstract: This paper describes the design of matrix converter for power conditioning of aircraft power supply. The proposed converter produces power supply of different frequency. By increasing the frequency it will reduce the size and weight of the equipment used. The single phase matrix converter drives the passive load without any commutation problem. The commutation problem can be avoided by safe commutation strategy and also voltage spikes are eliminated by suitable switching pattern. The results are analyzed by the MATLAB/Simulink.