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CAPACITY ENHANCEMENT TECHNIQUES OF DISTRIBUTED UNIFIED POWER QUALITY CONDITIONER (D-UPQC) - A REVIEW

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Abstract

The widespread use of Power Electronics based equipment has produced a significant impact on quality of electric power supply. Conventional power quality mitigation equipment is providing to be inadequate for an increasing number of applications. One modern and very promising solution that deals with both load current and supply voltage imperfections is the Unified Power Quality Conditioner (UPQC). This paper presents comprehensive review on the UPQC capacity enhancement in high power application using Multi-level/module topologies, such as Multi-converter, Multi-module converter and Multi-level (power cell) based to improve the electric power quality at distribution levels.

Keywords : Power Quality (PQ), Unified power quality conditioner (UPQC), Centralised & Distributed APF Systems. © http://www.ascent-journals.com