

**POWER QUALITY STANDARDS AND PERFORMANCE
OF AC-DC CONVERTERS FOR POWER QUALITY IMPROVEMENT
AT INPUT AC MAINS**

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Abstract

This paper deals with an overview of the power quality standards with their practical limitations and the performance review of eight different topologies of AC-DC converters for power quality improvement at input AC mains, with their suitability and selection for specific applications. These converters topologies are evaluated on the basis of performance and their salient features are discussed to analyze their applicability.

Keywords : Power quality standards, IEEE 519, IEC 61000-4-15, AC-DC converters, power quality improvement.