



EUROPEAN POWER SUPPLIES MANUFACTURERS' ASSOCIATION
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PFC Harmonic Current Emissions – Guide to EN61000-3-2:2014

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ABSTRACT

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ABSTRACT

This white paper explains the origins and requirements of European Standard EN 61000-3-2 “Electromagnetic Compatibility (EMC) – Limits for harmonic current emissions”. Power factor correction is a term often used but the standard now puts limits on the line current harmonic level. The paper explains how distortion to line current is produced by non-linear loads and what effect this distortion has on the public network.

Measurement methods for harmonic currents are described and what limits are applicable to different types of installation and equipment. An analysis is given of the difference between EN 61000-3-2 and earlier versions.

Methods to reduce line harmonic currents are discussed for different equipment power supply topologies with their advantages and disadvantages.

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