

Australian/New Zealand Standard™

Electromagnetic compatibility (EMC)

**Part 3.2: Limits—Limits for harmonic
current emissions (equipment input
current ≤ 16 A per phase)
(IEC 61000-3-2, Ed. 3.0 (2005) MOD)**



AS/NZS 61000.3.2:2007

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee EL-034, Power Quality. It was approved on behalf of the Council of Standards Australia on 5 July 2007 and on behalf of the Council of Standards New Zealand on 29 June 2007.

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The following are represented on Committee EL-034:

Australian Chamber of Commerce and Industry
Australian Electrical and Electronic Manufacturers Association
Australian Energy Market Commission
Australian Information Industry Association
Bureau of Steel Manufacturers of Australia
Consumers' Federation of Australia
Electrical Regulatory Authorities Council
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This Standard was issued in draft form for comment as DR 07033.

AS/NZS 61000.3.2:2007
(Incorporating Amendment No. 1)

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-034, Power Quality, to supersede AS/NZS 61000.3.2:2003.

This Standard incorporates Amendment No. 1 (August 2009). The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.

The objective of this Standard is to provide manufacturers and suppliers of electricity and users of electrical equipment intended for connection to an electrical network with limits for voltage disturbances and harmonics produced by that equipment and the methods for ascertaining compliance to them in order to maintain electromagnetic compatibility within the electrical network.

This Standard is an adoption with national modifications and has been reproduced from IEC 61000-3-2, Ed. 3.0 (2005), *Electromagnetic compatibility (EMC)—Part 3.2: Limits—Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)*, and has been varied as indicated to take account of Australian/New Zealand conditions.

Variations to IEC 61000-3-2, Ed. 3.0 (2005) are indicated at the appropriate places throughout this Standard. Strikethrough (~~example~~) identifies IEC text, tables and figures which, for the purposes of this Australian/New Zealand Standard, are deleted. Where text, tables or figures are added, each is set in its proper place and identified by shading (example). Added figures are not themselves shaded, but are identified by a shaded border.

Limits to harmonic emission from equipment are covered by three Standards depending on the equipment current rating and they are—

- (a) AS/NZS 61000.3.2, for equipment with rated current less than or equal to 16 A per phase;
- (b) AS/NZS 61000.3.12, for equipment with rated current greater than 16 A per phase and less than or equal to 75 A per phase; and
- (c) AS/NZS 61000.3.4, for equipment with rated current greater than 75 A per phase.

An informative note, as replicated below, has been added in Clause 7.3(b).

'NOTE - Widespread use of devices meeting this criterion can cause interference in networks, particularly networks using ripple control signalling.'

It is intended to delete this second criterion from October 2010 subject to the outcome of a review to be carried out on the effect of the mass introduction of these lamps.'

As this Standard is reproduced from an International Standard, the following applies:

- a) Its number does not appear on each page of text and its identity is shown only on the cover and title page.
- b) In the source text 'IEC 61000-3-2' should read 'AS/NZS 61000.3.2'.
- c) A full point should be substituted for a comma when referring to a decimal marker.

The terms 'normative' and 'informative' are used to define the application of the annex to which they apply. A normative annex is an integral part of a standard, whereas an informative annex is only for information and guidance.

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