

Australian/New Zealand Standard™

Electromagnetic compatibility (EMC)

Part 2.2: Environment—Compatibility levels for low-frequency conducted disturbances and signalling in public low-voltage power supply systems

AS/NZS 61000.2.2:2003

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 10 June 2003 and on behalf of the Council of Standards New Zealand on 24 June 2003. It was published on 24 July 2003.

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Electromagnetic compatibility (EMC)

Part 2.2: Environment—Compatibility levels for low-frequency conducted disturbances and signalling in public low-voltage power supply systems

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-034, Power Quality.

The objective of this Standard is to specify compatibility levels for electromagnetic disturbances of the type which can be expected in public low-voltage power supply systems.

This Standard is identical with and has been reproduced from IEC 61000-2-2:2002, *Electromagnetic compatibility (EMC)—Part 2-2: Environment—Compatibility levels for low-frequency conducted disturbances and signalling in public low-voltage power supply systems*.

This Standard is Part 2.2 of a series, which, when complete, will consist of the following:

AS/NZS

61000		Electromagnetic compatibility (EMC)
61000.1.1	Part 1.1:	General—Application and interpretation of fundamental definitions and terms
61000.2.2	Part 2.2:	Environment—Compatibility levels for low-frequency conducted disturbances and signalling in public low-voltage power supply systems (this Standard)
61000.2.3	Part 2.3:	Environment—Description of the environment—Radiated and non-network-frequency-related conducted phenomena
61000.2.5	Part 2.5:	Environment—Classification of electromagnetic environments
61000.2.12	Part 2.12:	Environment—Compatibility levels for low-frequency conducted disturbances and signalling in public medium-voltage power supply systems
61000.3.2	Part 3.2:	Limits—Limits for harmonic current emissions (equipment input current less than or equal to 16 A per phase)
61000.3.3	Part 3.3:	Limits—Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current less than or equal to 16 A per phase and not subject to conditional connection
61000.3.5	Part 3.5:	Limits—Limitation of voltage fluctuations and flicker in low-voltage supply systems for equipment with rated current greater than 16 A
61000.3.6	Part 3.6:	Limits—Assessment of emission limits for distorting loads in MV and HV power systems
61000.3.7	Part 3.7:	Limits—Assessment of emission limits for fluctuating loads in MV and HV power systems
61000.3.11	Part 3.11:	Limits—Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems—Equipment with rated current less than or equal to 75 A and subject to conditional connection
61000.3.12	Part 3.12:	Limits—Limitation of emission of harmonic currents in low-voltage power supply systems for equipment with rated current greater than 16 A
61000.4.1	Part 4.1:	Testing and measurement techniques—Overview of immunity tests
61000.4.2	Part 4.2:	Testing and measurement techniques—Electrostatic discharge immunity test
61000.4.3	Part 4.3:	Testing and measurement techniques—Radiated radio-frequency electromagnetic field immunity test
61000.4.5	Part 4.5:	Testing and measurement techniques—Surge immunity test

61000.4.6	Part 4.6:	Testing and measurement techniques—Immunity to conducted disturbances, induced by radio-frequency fields
61000.4.7	Part 4.7:	Testing and measurement techniques—General guide on harmonics and interharmonics measures and instrumentation, for power supply systems and equipment connected thereto
61000.4.8	Part 4.8:	Testing and measurement techniques—Power frequency magnetic field immunity test
61000.4.16	Part 4.16:	Testing and measurement techniques—Test for immunity to conductor common mode disturbances in the frequency range 0 Hz to 150 kHz
61000.6.2	Part 6.2:	Generic standards—Immunity for industrial environments

This Standard should be read in conjunction with the regulations, service rules and installation rules of the supply authority approving the connection.

A reference to an International Standard identified in the Normative References Clause by strikethrough (~~example~~) is replaced by a reference to the Australian or Australian/New Zealand Standard(s) listed immediately thereafter and identified by shading (**example**). Where the struck-through referenced document and the referenced Australian or Australian/New Zealand Standard are identical, this is indicated in parenthesis after the title of the latter.

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- requirements proper: in arial type;
- *test specifications: in italic type;*
- explanatory matter: in smaller arial type.

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- (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 ‘this standard’ should read ‘this Australian/New Zealand Standard’.
- (c) A full point should be substituted for a comma when referring to a decimal marker.

The term ‘informative’ has been used in this Standard to define the application of the annex to which it applies. An ‘informative’ annex is only for information and guidance.

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