

AS/NZS 61000.2.12:2003
IEC 61000-2-12:2003

AS/NZS 61000.2.12

Australian/New Zealand Standard™

Electromagnetic compatibility (EMC)

**Part 2.12: Environment—Compatibility
levels for low-frequency conducted
disturbances and signalling in public
medium-voltage power supply systems**

AS/NZS 61000.2.12:2003

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 12 November 2003 and on behalf of the Council of Standards New Zealand on 19 November 2003. It was published on 29 December 2003.

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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 disturbance phenomena which can be expected in public medium voltage a.c. distribution systems.

This Standard is identical with, and has been reproduced from IEC 61000-2-12:2003, *Electromagnetic compatibility (EMC) - Part 2-12: Environment - Compatibility levels for low-frequency conducted disturbances and signalling in public medium-voltage power supply systems*.

This Standard is Part 2.12 of a series, which, currently consists 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

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 (this Standard)

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 75A and subject to conditional connection

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 measurements 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 conducted common mode disturbances in the frequency range 0 Hz to 150 kHz
- 61000.6.2 Part 6.2: Generic standards—Immunity for industrial environments

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

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