

Australian/New Zealand Standard™

**Electromagnetic compatibility—
Requirements for household appliances,
electric tools and similar apparatus**

**Part 2: Immunity—Product family
standard**



AS/NZS CISPR 14.2:2013

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee TE-003, Electromagnetic Interference. It was approved on behalf of the Council of Standards Australia on 8 March 2013 and on behalf of the Council of Standards New Zealand on 28 February 2013.
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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee TE-003, Electromagnetic Interference, to supersede AS/NZS CISPR 14.2:2003.

The objective of this Standard is to establish uniform requirements for the electromagnetic immunity of the equipment mentioned in the scope, to fix test specifications of immunity, to refer to basic standard for methods of testing, and to standardize operating conditions, performance criteria and interpretation of results.

This Standard is identical with, and has been reproduced from, CISPR 14-2, Ed. 1.2 (2008), *Electromagnetic compatibility—Requirements for household appliances, electric tools and similar apparatus, Part 2: Immunity—Product family standard*.

This Ed. 1.2 of CISPR 14-2 is the consolidated version of Ed. 1 (1997), its Amendment 1 (2001) and its Amendment 2 (2008). The amended text is indicated by vertical lines in the margin.

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<i>Reference to International Standard</i>		<i>Australian/New Zealand Standard</i>	
IEC		AS/NZS	
61000	Electromagnetic compatibility (EMC)	61000	Electromagnetic compatibility (EMC)
61000-4-2 (2001)	Part 4-2: Testing and measurement techniques—Electrostatic discharge immunity test	61000.4.2 (2002)	Part 4.2: Testing and measurement techniques—Electrostatic discharge immunity test
61000-4-4 (2004)	Part 4-4: Testing and measurement techniques—Electrical fast transient/burst immunity test	61000.4.4 (2006)	Part 4.4: Testing and measurement techniques—Electrical fast transient/burst immunity test
61000-4-5 (2005)	Part 4-5: Testing and measurement techniques—Surge immunity test	61000.4.5 (2006)	Part 4.5: Testing and measurement techniques—Surge immunity test

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INTRODUCTION

The intention of this standard is to establish uniform requirements for the electromagnetic immunity of the equipment mentioned in the scope, to fix test specifications of immunity, to refer to basic standards for methods of testing, and to standardize operating conditions, performance criteria and interpretation of results.

Keywords: Immunity, household appliances, electric apparatus, electromagnetic compatibility.

AUSTRALIAN/NEW ZEALAND STANDARD

Electromagnetic compatibility—Requirements for household appliances, electric tools and similar apparatus**Part 2:
Immunity—Product family standard****1 Scope**

1.1 This standard deals with the electromagnetic immunity of appliances and similar apparatus for household and similar purposes that use electricity, as well as electric toys and electric tools, the rated voltage of the apparatus being not more than 250 V for single-phase apparatus to be connected to phase and neutral, and 480 V for other apparatus.

Apparatus may incorporate motors, heating elements or their combination, may contain electric or electronic circuitry, and may be powered by the mains, by transformer, by batteries, or by any other electrical power source.

Apparatus not intended for household use, but which nevertheless may require the immunity level, such as apparatus intended to be used by laymen in shops, in light industry and on farms, are within the scope of this standard, as far as they are included in CISPR 14-1, and in addition:

- microwave ovens for domestic use and catering;
- cooking hobs and cooking ovens, heated by means of r.f. energy, (single- and multiple-zone) induction cooking appliances;
- appliances for personal care equipped with radiators in the range from UV to IR, inclusive (this includes visible light).

1.2 This standard does not apply to:

- equipment for lighting purposes;
- apparatus designed exclusively for heavy industrial purposes;
- apparatus intended to be part of the fixed electrical installation of buildings (such as fuses, circuit breakers, cables and switches);
- apparatus intended to be used in locations where special electromagnetic conditions prevail, such as the presence of high e.m. fields (for example in the vicinity of a broadcast transmitting station), or where high pulses occur on the power network (such as in a power generator station);
- radio and television receivers, audio and video equipment, and electronic music instruments other than toys;
- medical electrical appliances;
- personal computers and similar equipment other than toys;
- radio transmitters;
- apparatus designed to be used exclusively in vehicles;
- babies surveillance systems.

1.3 Immunity requirements in the frequency range 0 Hz to 400 GHz are covered.