

AS/NZS 60335.2.100:2003
(IEC 60335-2-100:2002, MOD)

Reconfirmed 2016

Australian/New Zealand Standard™

Household and similar electrical
appliances – Safety –

Part 2.100: Particular requirements
for hand-held mains-operated
garden blowers, vacuums and
blower vacuums
(IEC 60335-2-100:2002, MOD)

AS/NZS 60335.2.100:2003

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee EL/2 - Safety of household and similar electrical appliances and small power transformers. It was approved on behalf of the Council of Standards Australia on 1 September 2003 and by the Council of Standards New Zealand on 9 September 2003. It was published on 14 November 2003.

The following interests are represented on Committee EL/2

Association of Certification Bodies
Australian Chamber of Commerce and Industry
Australian Electrical and Electronic Manufacturers Association
Canterbury Manufacturers Association New Zealand
Consumer Electronic Suppliers Association, Australia
Electrical regulatory authorities, Australia
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STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

RECONFIRMATION

OF

AS/NZS 60335.2.100:2003

Household and similar electrical appliances—Safety

Part 2.100: Particular requirements for hand-held mains-operated garden blowers,
vacuums and blower vacuums (IEC 60335-2-100:2002, MOD)

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Technical Committee EL-002 has reviewed the content of this publication and in accordance with Standards Australia procedures for reconfirmation, it has been determined that the publication is still valid and does not require change.

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NSW Fair Trading
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Worksafe New Zealand

NOTES

AS/NZS 60335.2.100:2003
(IEC 60335-2-100:2002, MOD)

Australian/New Zealand Standard™

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STANDARDS AUSTRALIA / STANDARDS NEW ZEALAND

**HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES –
SAFETY –****Part 2.100: Particular requirements for hand-held mains-operated
garden blowers, vacuums and blower vacuums**

FOREWORD

This standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-002- Safety of Household and Similar Electrical Appliances and Small Power Transformers. It replaces AS/NZS 3350.2.2:2001, for the approval of hand-held mains-operated garden blowers, vacuums and blower vacuums seven years from the date of publication. During this seven year period either AS/NZS 3350.2.2 or AS/NZS 60335.2.100 may be used for regulatory purposes in both Australia and New Zealand.

The objective of this Standard is to provide manufacturers, designers, regulatory authorities, testing laboratories and similar organizations with safety requirements designed to give the user protection against hazards that might occur during normal operation and abnormal operation of the appliance and which may be used as the basis for approval for sale or for connection to the electricity supply mains in Australia and New Zealand

This Standard is an adoption with national modifications and contains the full text of the first edition of IEC 60335-2-100:2002, *Household and similar electrical appliances – Safety - Part 2-100: Particular requirements for hand-held mains-operated garden blowers, vacuums and blower vacuums* and has been varied as indicated to take account of Australian and New Zealand conditions. It is to be used in conjunction with the latest edition of AS/NZS 60335.1, *Household and similar electrical appliances – Safety - Part 1: General requirements* and its Amendments. It was established on the basis of AS/NZS 60335.1:2002.

This part 2 supplements or modifies the corresponding clauses of AS/NZS 60335.1 (referred to as part 1 in this part 2) so as to convert it into the Australian/New Zealand Standard: Safety of spray extraction appliances for industrial and commercial use.

NOTE 1 When "Part 1" is mentioned in this standard, it refers to AS/NZS 60335.1.

When a particular subclause of Part 1 is not mentioned in this Part 2, that subclause applies as far as is reasonable. When this standard states "addition", "modification", or "replacement", the relevant text in Part 1 is to be adapted accordingly.

NOTE 2 The following numbering system is used:

- subclauses, tables and figures that are numbered starting from 101 are additional to those in Part 1;
- unless notes are in a new subclause or involve notes in Part 1, they are numbered starting from 101, including those in a replaced clause or subclause;
- additional annexes are lettered AA, BB, etc.

NOTE 3 The following print types are used:

- requirements: in roman type;
- *test specifications: in italic type;*
- notes: in small roman type.

Words in **bold** in the text are defined in clause 3. When a definition concerns an adjective, the adjective and the associated noun are also in bold.

The numbering of clauses, subclauses, notes, tables, figures and annexes follows that of IEC 60335-2-100:2002. To allow for the introduction of additional material by the IEC, the numbers 101 to 200 have been reserved. To allow for additional material to be introduced by Australia and New Zealand, the numbers 201 to 300 are used to number further clauses, subclauses, notes, tables and figures in part 1. The numbers 301 to 400 are used to number further clauses, subclauses, notes, tables and figures in this part 2. Additional annexes are lettered ZA, ZB and so on.

This scheme has been introduced to reduce the likelihood of the IEC and Australia and New Zealand using the same identifier for different purposes.

The use of the word VOID indicates that the IEC text is not used in Australia or New Zealand. The use of this word also avoids the need to renumber, clauses, notes, tables and figure if an earlier clause, note, table or figure is not used.

Clause 2 has been reformatted to indicate the Australia/New Zealand standard that is equivalent to the IEC standard or ISO standard to which normative reference is made.

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 on the cover and title page only.
- (b) In the source text "this International Standard" should read "this Australian/New Zealand Standard".

A full point substitutes for a comma when referring to a decimal marker.

Variations to IEC 60335-2-100:2002 are indicated at the appropriate places throughout this standard. Strikethrough (~~example~~) identifies IEC tables, figures and passages of text which, for the purposes of this Australian/New Zealand standard are deleted. Where Australian/New Zealand tables, figures or passages of text 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.

Variations made to IEC 60335-2-100:2002 form the Australian variations for the purposes of the IECEE scheme for recognition of testing to standards for safety of electrical equipment (the CB scheme). These variations have been incorporated in the body of the standard. They are listed in Annex ZZ for easy reference.

INTRODUCTION

It has been assumed in the drafting of this International Standard that the execution of its provisions is entrusted to appropriately qualified and experienced persons.

This standard recognizes the internationally accepted level of protection against hazards such as electrical, mechanical, thermal, fire and radiation of appliances when operated as in normal use taking into account the manufacturer's instructions. It also covers abnormal situations that can be expected in practice.

This standard takes into account the requirements of AS/NZS 3000 as far as possible so that there is compatibility with the wiring rules when the appliance is connected to the supply mains. However, national wiring rules may differ.

If an appliance within the scope of this standard also incorporates functions that are covered by another part 2 of AS/NZS 60335, the relevant part 2 is applied to each function separately, as far as is reasonable. If applicable, the influence of one function on the other is taken into account.

This standard is a product family standard dealing with the safety of appliances and takes precedence over horizontal and generic standards covering the same subject.

An appliance that complies with the text of this standard will not necessarily be considered to comply with the safety principles of the standard if, when examined and tested, it is found to have other features that impair the level of safety covered by these requirements.

An appliance employing materials or having forms of construction differing from those detailed in the requirements of this standard may be examined and tested according to the intent of the requirements and, if found to be substantially equivalent, may be considered to comply with the standard.

The essential safety requirements in AS/NZS 3820 that could be applicable to hand-held mains-operated garden blowers, vacuums and blower vacuums are covered by this standard.

STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

**HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES –
SAFETY –**
**Part 2.100: Particular requirements for hand-held mains-operated
garden blowers, vacuums and blower vacuums**
1 Scope

This clause of Part 1 is replaced by the following.

This International Standard deals with the safety of **hand-held** mains-operated electrical **garden vacuums** and **garden blower/vacuums** with or without shredding means and **garden blowers** for use at and around the home or for similar purposes, their **rated voltage** being not more than 250 V single phase.

This standard does not in general take into account:

- the use of appliances by young children or infirm persons without supervision;
- playing with the appliance by young children.

NOTE 101 Attention is drawn to the fact that:

- in many countries additional requirements are specified by the national authorities responsible for the protection of labour.

NOTE 102 This standard does not apply to

- vacuum cleaners intended primarily for use indoors, for water suction cleaning or animal grooming (IEC 60335-2-2).

2 Normative references

This clause of Part 1 is applicable except as follows.

Addition:

International Standard	Year	Title	AU/NZ Standard	Year
ISO 13852	1996	<i>Safety of machinery – Safety distances to prevent danger zones being reached by the upper limbs</i>		
ISO/TR 12100-1	1992	<i>Safety of machinery – Basic concepts, general principles for design – Basic terminology, methodology</i>		