

Australian/New Zealand Standard™

**Safety of power transformers, power
supply units and similar**

**Part 2.7: Particular requirements for
transformers for toys
(IEC 61558-2-7:1997, MOD)**



Standards Australia



STANDARDS
NEW ZEALAND
Pūrongo Aotearoa

AS/NZS 61558.2.7:2001

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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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AS/NZS 61558.2.7:2001
(IEC 61558-2-7:1997, MOD)

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Safety of power transformers, power
supply units and similar -

Part 2.7: Particular requirements for
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PREFACE

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, to supersede, AS/NZS 3108, Chapter 3, Section 2, two years from publication.

The objective of this Standard is to provide manufacturers, designers, regulatory authorities, testing laboratories and similar organizations with safety requirements for the design, manufacture and testing of transformers for toys which can form the basis for approval by regulatory authorities.

This Standard forms the first edition of AS/NZS 61558.2.7 *Safety of power transformers, power supply units and similar - Part 2.7: Particular requirements for transformers for toys*.

This Standard is an adoption with national modifications and contains the full text of the first edition of IEC 61558-2-7:1997, *Safety of power transformers, power supply units and similar - Part 2-7: Particular requirements for transformers for toys* 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 61558.1 and its amendments. It was established on the basis of the first edition (2000) of that standard.

This part 2 supplements or modifies the corresponding clauses of AS/NZS 61558.1 so as to convert it into the Australian/New Zealand Standard: *Safety requirements for transformers for toys*.

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

NOTE 1 Subclauses, notes, tables and figures which are additional to those in part 1 are numbered starting from 101. Annexes, which are additional to those in part 1 are lettered AA, BB, etc.

Annex ZZ is for information only.

NOTE 2 In this Standard the following print types are used:

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

Words **in bold** in the text are defined in clause 3.

The numbering of clauses, subclauses, notes, tables, figures and annexes follows that of IEC 61558-2-7:1997. 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.

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".
- (c) A full point substitutes for a comma when referring to a decimal marker.

Variations to IEC 61558-2-7:1997 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 61558-2-7:1997 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.

AUSTRALIA/NEW ZEALAND STANDARD

**SAFETY OF POWER TRANSFORMERS, POWER SUPPLY UNITS
AND SIMILAR –**

**Part 2.7: Particular requirements for transformers for toys
(IEC 61558-2-7:1997, MOD)**

1 Scope

Replacement:

This part 2 of ~~IEC 61558~~ **AS/NZS 61558** applies to **transformers for toys** having a **rated supply voltage** not exceeding 250 V a.c., a **rated frequency** of 50/60 Hz, a **rated output voltage** not exceeding 24 V a.c. or 33 V ripple-free d.c. and a **rated output** not exceeding 200 VA and a **rated output current** not exceeding 10 A.

This standard does not in general take into account playing with the transformer by children.

2 Normative references

~~This clause of part 1 is applicable.~~

This clause of part 1 is applicable except as follows:

Addition:

AS/NZS 3112:2000, *Approval and test specification – Plugs and socket-outlets*

3 Definitions

This clause of part 1 is applicable except as follows:

Addition:

3.1.101

transformer for toys

safety isolating transformer designed to supply toys and having a **rated output voltage** not exceeding 24 V a.c. or 33 V ripple-free d.c.

4 General requirements

This clause of part 1 is applicable.

5 General notes on tests

This clause of part 1 is applicable except as follows:

5.12 This subclause is not applicable.