

AS/NZS 61558.2.5:2003
(IEC 61558-2-5:1997, MOD)

Australian/New Zealand Standard™

Safety of power transformers, power
supply units and similar -

Part 2.5: Particular requirements for
shaver transformers
(IEC 61558-2-5:1997, MOD)

AS/NZS 61558.2.5:2003

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 30 December 2002 and by the Council of Standards New Zealand on 20 December 2002. It was published on 24 January 2003.

The following interests are represented on Committee EL/2

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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
Electrical test laboratories
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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, to supersede, in part, AS/NZS 3108, Chapter 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 shaver transformers which can form the basis for approval by regulatory authorities

This Standard forms the first edition of AS/NZS 61558.2.5 *Safety of power transformers, power supply units and similar - Part 2.5: Particular requirements for shaver transformers.*

This Standard is an adoption with national modifications and contains the full text of the first edition of IEC 61558-2-5:1997, *Safety of power transformers, power supply units and similar - Part 2-5: Particular requirements for shaver transformers and shaver supply units* 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 (2001) 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 shaver transformers.*

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 61558-2-5:1997. 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.

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.

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 61558-2-5:1997 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 61558-2-5:1997 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 2.5: Particular requirements for shaver transformers

1 Scope

Replacement:

This part 2-5 of IEC 61558 applies to ~~shaver supply units~~, embodying one or more socket-outlets and a single phase air cooled ~~isolating transformer~~, having a ~~rated supply voltage~~ not exceeding 250 V a.c., a ~~rated output~~ not less than 20 VA and not exceeding 50 VA, a ~~rated output voltage~~ not exceeding 250 V, and a ~~rated frequency~~ not exceeding 500 Hz.

This standard is also applicable to ~~shaver transformers~~ for embodiment into ~~shaver supply units~~.

NOTE 1 – ~~Shaver supply units~~ may be flush or surface mounted or incorporated in luminaires and other equipment.

NOTE 2 – ~~Shaver supply units~~ may be used to supply shavers, tooth brushes and similar small power devices.

This part 2-5 of IEC 61558 applies to **shaver transformers** for embodiment into shaver supply units. These transformers are single phase air cooled **isolating transformers**, having a **rated supply voltage** not exceeding 250 V a.c., a **rated output** not less than 20 VA and not exceeding 50 VA, a **rated output voltage** not exceeding 250 V, and a **rated frequency** not exceeding 500 Hz.

NOTE 301 – Requirements for shaver supply units are contained in AS/NZS 3194.

2 Normative references

This clause of Part 1 is applicable.

This clause of part 1 is applicable except as follows:

Addition:

<u>IEC standard</u>	<u>Year</u>	<u>Title</u>	<u>AU/NZ standard</u>	<u>Year</u>
IEC 60068-2-62	1991	<i>Environmental testing – Part 2: Test methods – Test Ef: Impact, pendulum hammer</i>		