

Australian/New Zealand Standard™

**Approval and test specification—
Electric shaver supply units**



AS/NZS 3194:2015

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee EL-004, Electrical Accessories. It was approved on behalf of the Council of Standards Australia on 14 September 2015 and on behalf of the Council of Standards New Zealand on 6 November 2015.

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The following are represented on Committee EL-004:

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Australian Chamber of Commerce and Industry
Australian Industry Group
Consumer Electronics Suppliers Association
Consumers Federation of Australia
Electrical Compliance Testing Association
Electrical Regulatory Authorities Council
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Approval and test specification— Electric shaver supply units

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-004 Electrical Accessories, to supersede AS/NZS 3194:1993.

This Standard is one of a series of approval and test specifications to be read in conjunction with AS/NZS 3100, *Approval and test specification—General requirements for electrical equipment*. The purpose of these specifications is to outline conditions which are required to be met to secure approval for the sale and use of electrical equipment. Only safety matters and related conditions are covered.

The essential safety requirements in AS/NZS 3820 that could be applicable to household and similar electrical appliances are covered by this Standard taken in conjunction with any other relevant requirements affecting safety.

This Standard runs in parallel with the requirements for shaver supply units in AS/NZS 61558.2.5, *Safety of Power Transformers, Power Supplies, Reactors and combinations thereof*, Part 2.5: *Particular requirements for transformers for shavers, power supply units for shavers and shaver supply units (IEC 61558-2-5 Ed 2, MOD)*.

This Standard was revised to introduce the following technical changes:

- (a) Referenced documents updated.
- (b) Clause 5.1.3, pollution degree 2 added.
- (c) Clause 5.1.4 requires transformers to comply with AS/NZS 61558.2.5. A note advises that compliance with AS/NZS 3108, *Approval and test specification—Particular requirements for isolating transformers and safety isolating transformers*, is considered as compliance with AS/NZS 61558.2.5.
- (d) Clause 5.6, Integral switching zone 2, note added.
- (e) Former Clause 5.7 on radio interference suppression devices deleted
- (f) Clause 8, Marking, updated to include IP rating if higher than IP2X.
- (g) Table 1, tests and order of application updated.
- (h) Addition of Clause 9.6, Tests for IP rating.

This Standard does not provide all the necessary provisions of a contract.

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STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

Australian/New Zealand Standard**Approval and test specification—Electric shaver supply units****1 SCOPE**

This Standard sets out requirements for fixed or portable shaver supply units intended for use at low voltage.

2 APPLICATION**2.1 General requirements of AS/NZS 3100**

This Standard shall be read in conjunction with AS/NZS 3100, and the appropriate provisions of AS/NZS 3100 shall apply to the construction of the shaver supply unit and the insulation and safeguarding of parts that normally carry current.

2.2 Specific requirements of this specification

A shaver supply unit shall be deemed to comply with this Standard only if it complies with all the requirements of this Standard and passes the specified relevant tests.

2.3 Requirements of other Standards

Equipment and components incorporated in a shaver supply unit, which are depended upon for safety, shall comply with the appropriate Standard unless such requirements are varied by this Standard.

3 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

60529 Degrees of protection provided by enclosures (IP Code)

AS/NZS

3000 Electrical installations (known as the Australian/New Zealand Wiring Rules)

3100 Approval and test specification—General requirements for electrical equipment

3112 Approval and test specification—Plugs and socket-outlets

3191 Electric flexible cords

61558 Safety of Power Transformers, Power Supplies, Reactors and combinations thereof

61558.2.5 Part 2.5: Particular requirements for transformers for shavers, power supply units for shavers and shaver supply units (IEC 61558-2-5 Ed 2, MOD)

IEC/TR

60083 Plugs and socket-outlets for domestic and similar general use standardized in member countries of IEC

BS

4573 Specification for 2-pin reversible plugs and shaver socket-outlets

ANSI/NEMA

WD6 Wiring devices—Dimensional requirements