

Australian/New Zealand Standard™

## Glow-starters for fluorescent lamps

[Modified and containing the full text of IEC 60155:1993  
incorporating IEC 60155:1993 Amendment 1: 1995]

## **AS/NZS 60155:2000**

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This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee EL/41, Lamps and Related Equipment. It was approved on behalf of the Council of Standards Australia on 2 October 1999 and on behalf of the Council of Standards New Zealand on 2 November 1999. It was published on 10 January 2000.

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The following interests are represented on Committee EL/41:

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Australian Electrical and Electronic Manufacturers Association  
Electrical Compliance Testing Association of Australia  
Electrical Regulatory Authorities Council  
Energy Efficiency and Conservation Authority of New Zealand  
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[Modified and containing the full text of IEC 60155:1993  
incorporating IEC 60155:1993 Amendment 1: 1995]

Originated as AS 3138—1993 and AS 4111—1993.  
Jointly revised and redesignated AS/NZS 60155:2000.  
Reissued incorporating Amendment Nos 1 and 2 (August 2000).

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## PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL/41, Lamps and Related Equipment to supersede AS 3138—1993, *Approval and test specification—Starters for fluorescent lamps* and AS 4111—1993, *Starters for fluorescent lamps—Performance requirements* on 1 January 2002, until which both those Standards remain current.

*This Standard incorporates Amendment No. 2 (August 2000) which replaces Amendment No. 1 (May 2000). The change required by the Amendment is indicated in the text by a marginal bar and amendment number against the figure affected.*

The objective of this Standard is to provide the lighting industry with safety and performance requirements for glow-starters for fluorescent lamps. Section 2, *Performance specification*, is not intended for mandatory reference by Regulators.

This Standard is an adoption with national modifications of, and has been reproduced from, IEC 60155:1993, *Glow-starters for fluorescent lamps*, incorporating IEC 60155:1993 Amend 1:1995.

In January 1997, the IEC commenced numbering its publications from 60000 by adding 60000 to the number of each publication. This coordinates IEC numbering with ISO numbering. During the transition period an IEC document might be identified by its new number or its old number (for example IEC 60155 or IEC 155).

Technical deviations from IEC 60155, for reasons of protection of human health and safety, a legitimate reason under the WTO Agreement on Technical Barriers to Trade (TBT), have been made by adding Clause 7.101 to cover resistance to ignitability and combustion propagation.

Variations to 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.

As this Joint Standard is reproduced from an International Standard, the following applies:

- (a) The AS/NZS number is shown only on the cover and title page.
- (b) In the source text ‘this International Standard’ should read ‘this Australian/New Zealand Standard’ and references to ‘relevant IEC Standard’ should read ‘relevant IEC, Australian or New Zealand Standard’.
- (c) A full point should be substituted for a comma when referring to a decimal marker.

The terms ‘normative’ and ‘informative’ have been used in this Standard to define the application of the appendix to which they apply. A normative appendix is an integral part of a Standard, whereas an informative appendix is only for information and guidance.

Attention is drawn to Electromagnetic Compatibility (EMC) schemes introduced in their respective countries by the Australian Communications Authority (ACA) and the Ministry of Commerce New Zealand (MOC) to manage the use and performance of devices that either intentionally or unintentionally emit electromagnetic energy in the radiofrequency spectrum. Mandated Standards form an integral part of the EMC compliance schemes. Electrical lighting products fall within the scope of AS/NZS 4051, *Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment*. AS/NZS 4051 has been reproduced from IEC/CISPR 15 (same title) but contains some changes to limits to protect local radio services.

Information on EMC compliance for lighting equipment is to be found on the Internet at <http://www.aca.gov.au/standards/emcindex.htm> and for NZ at <http://www.moc.govt.nz/rsm>

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## INTRODUCTION

This standard for interchangeable glow-starters for fluorescent lamps comprises two sections: Section 1 describes the general requirements with which glow-starters shall comply in order to ensure safety, and Section 2 covers the requirements for performance.

The additional requirements with which glow-starters for use in class II luminaires shall comply are specified in annex B.

## STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

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**Australian/New Zealand Standard**

**Glow-starters for fluorescent lamps**

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Any IEC table, figure or passage of text that is struckthrough is not part of this Standard. Any Australian/New Zealand table, figure or passage of text that is added (and identified by shading) is part of this Standard.

**1 Scope**

This standard specifies interchangeable glow-starters used with pre-heat type fluorescent lamps, hereafter called "starters".

Section 1 specifies the general and safety requirements with which starters shall comply.

Section 2 specifies the performance.

NOTE - Starters are generally designed to operate with a range of lamps, depending on supply voltage, single lamp or series pair operation, maximum lamp voltage and lamp starting requirements.

Glow-starters for use in class II luminaires shall comply with annex B.

**2 Normative references**

The following normative documents contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All normative documents are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

References to International Standards that are struck through in this Clause are replaced by references to equivalent Australian or Australian/New Zealand Standards that are listed immediately thereafter and identified by shading. Any Australian or Australian/New Zealand Standard that is identical to the International Standard it replaces is appropriately identified.

~~IEC 81: 1984, *Tubular fluorescent lamps for general lighting service*~~

AS 1201 Tubular fluorescent lamps for general lighting service

~~IEC 400: 1991, *Lampholders for tubular fluorescent lamps and starterholders*~~

~~IEC 598: *Luminaires*~~

AS/NZS 60598 Luminaires

~~IEC 695-2-1: 1991, *Fire hazard testing. Part 2: Test methods — Section 1: Glow wire test and guidance*~~

AS/NZS 4695 Fire hazard testing of electrotechnical products  
AS/NZS 4695.2.2 Test methods—Needle flame test  
AS/NZS 4695.2.10 Glow-wire test methods—General