

Australian/New Zealand Standard™

Lamp controlgear

**Part 2.9: Particular requirements for
ballasts for discharge lamps (excluding
fluorescent lamps)
(IEC 61347-2-9:2000 MOD)**

AS/NZS 61347.2.9:2004

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee EL-041, Lamps and Related Equipment. It was approved on behalf of the Council of Standards Australia on 22 March 2004 and on behalf of the Council of Standards New Zealand on 30 April 2004. It was published on 17 May 2004.

The following are represented on Committee EL-041:

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Australian Chamber of Commerce and Industry
Australian Electrical and Electronic Manufacturers Association
Consumer Federation of Australia
Electrical Compliance Testing Association of Australia
Electrical Regulatory authorities council (Australia)
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Australian/New Zealand Standard™

Lamp controlgear

Part 2.9: Particular requirements for ballasts for discharge lamps (excluding fluorescent lamps) (IEC 61347-2-9:2000 MOD)

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-041, Lamps and Related Equipment to supersede AS/NZS 60922:1998 *Auxiliaries for lamps—Ballasts for discharge lamps (excluding tubular fluorescent lamps)—General and safety requirements*. This Standard will co-exist with AS/NZS 60922 until 30 December 2005, on which date AS/NZS 60922 will be withdrawn.

The objective of this Standard is to specify particular safety requirements for ballasts for discharge lamps such as high-pressure mercury vapour, low-pressure sodium vapour, high-pressure sodium vapour and metal halide lamps. This Standard covers inductive-type ballasts for use on a.c. supplies up to 1000 V associated with discharge lamps, as specified in IEC 60188, IEC 60192 and IEC 60062.

This Standard is an adoption with national modifications and has been reproduced from, IEC 61347-2-9:2000, *Lamp controlgear – Part 2-9: Particular requirements for ballasts for discharge lamps (excluding fluorescent lamps)* including its Amendment 1:2003, and has been varied as indicated to take account of Australian/New Zealand conditions.

Variations to IEC 61347-2-9:2000 are indicated at the appropriate places throughout this standard. Strikethrough (**example**) identifies IEC text, tables and figures which, for the purposes of this Australian/New Zealand Standard, are deleted. Where text, tables or figures 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.

This Standard is a section of Part 2 of AS/NZS 61347 *Lamp controlgear*. Currently this Series consists of the following parts. Additional parts will be added from time to time.

AS/NZS

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| 61347.1 | Part 1: General and safety requirements |
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| 61347.2.8 | Part 2.8: Particular requirements for ballasts for fluorescent lamps |
| 61347.2.9 | Part 2.9: Particular requirements for ballasts for discharge lamps (excluding fluorescent lamps) (this Standard) |
| 61347.2.10 | Part 2.10: Particular requirements for electronic invertors and convertors for high-frequency operation of cold start tubular discharge lamps (neon tubes) |
| 61347.2.11 | Part 2.11: Particular requirements for miscellaneous electronic circuits used with luminaires |

This Standard is to be read in conjunction with AS/NZS 61347.1.

It is to be noted that AS/NZS 61347.1 has variations from IEC and hence product complying with IEC 61347-1 may not comply with AS/NZS 61347.1.

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 only on the cover and title page.
- (b) In the source text 'this international standard' should read 'this Australian/New Zealand Standard'.
- (c) A full point should be substituted for a comma when referring to a decimal marker.
- (d) Any French text on figures should be ignored.

The terms 'normative' and 'informative' are used to define the application of the annex to which they apply. A normative annex is an integral part of a standard, whereas an informative annex is only for information and guidance.

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INTRODUCTION

This first edition of AS/NZS 61347.2.9, published in conjunction with AS/NZS 61347.1, represents an editorial review of AS/NZS 60922. The formatting into separately published parts provides for ease of future amendments and revisions. Additional requirements will be added as and when a need for them is recognized.

This standard, and the parts which make up AS/NZS 61347.2, in referring to any of the clauses of AS/NZS 61347.1, specify the extent to which such a clause is applicable and the order in which the tests are to be performed; they also include additional requirements, as necessary. All parts which make up AS/NZS 61347.2 are self-contained and, therefore, do not include references to each other.

Where the requirements of any of the clauses of AS/NZS 61347.1 are referred to in this standard by the phrase 'The requirements of clause n of AS/NZS 61347.1 apply', this phrase is interpreted as meaning that all requirements of the clause in question of part 1 apply, except any which are clearly inapplicable to the specific type of lamp controlgear covered by this particular part of AS/NZS 61347.2.

NOTES

STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

Australian/New Zealand Standard
Lamp controlgear
Part 2.9: Particular requirements for ballasts for discharge lamps
(excluding fluorescent lamps)
(IEC 61347-2-9:2000 MOD)

1 Scope

This part of AS/NZS 61347 specifies particular safety requirements for ballasts for discharge lamps such as high-pressure mercury vapour, low-pressure sodium vapour, high-pressure sodium vapour and metal halide lamps. The standard covers inductive-type ballasts for use on a.c. supplies up to 1 000 V at 50 Hz or 60 Hz, associated with discharge lamps, having rated wattages, dimensions and characteristics as specified in IEC 60188, IEC 60192 and IEC 60662.

This standard applies to complete ballasts and to their component parts such as reactors, transformers and capacitors. Particular requirements for thermally protected ballasts are given in annex B.

NOTE 1 For certain types of discharge lamps, an ignitor is required.

NOTE 2 Ballasts for fluorescent lamps are covered by AS/NZS 61347.2.8.

Performance requirements are the subject of AS/NZS 60923.

2 Normative references

For the purpose of this part of AS/NZS 61347, the normative references given in clause 2 of AS/NZS 61347.1 which are mentioned in this standard apply, together with the following normative references.

References to international standards that are struck through in this clause are replaced by references to 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 identified as such.

IEC 60188, *High-pressure mercury vapour lamps*

IEC 60192, *Low-pressure sodium vapour lamps*

IEC 60662, *High-pressure sodium vapour lamps*

~~IEC 60923, *Auxiliaries for lamps – Ballasts for discharge lamps (excluding tubular fluorescent lamps) – Performance requirements*~~

AS/NZS 60923, *Auxiliaries for lamps – Ballasts for discharge lamps (excluding tubular fluorescent lamps) – Performance requirements*

~~IEC 61347.1, *Lamp controlgear – Part 1: General and safety requirements*~~

AS/NZS 61347.1, *Lamp controlgear, Part 1: General and safety requirements*