

Australian/New Zealand Standard™

**Lamp controlgear**

**Part 2.4: Particular requirements for d.c.  
supplied electronic ballasts for general  
lighting**

## **AS/NZS 61347.2.4:2002**

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 10 September 2002 and on behalf of the Council of Standards New Zealand on 3 September 2002. It was published on 10 October 2002.

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The following are represented on Committee EL-041:

Association of Consulting Engineers, Australia  
Australian Chamber of Commerce and Industry  
Australian Electrical and Electronic Manufacturers Association  
Electrical Compliance Testing Association of Australia  
Electrical Regulatory Authorities Council (Australia)  
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# Australian/New Zealand Standard™

## Lamp controlgear

### Part 2.4: Particular requirements for d.c. supplied electronic ballasts for general lighting

First published as AS/NZS 61347.2.4:2002.

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## PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-041, Lamps and related equipment.

The objective of this Standard is to provide the lighting industry with particular electrical safety requirements for d.c. supplied electronic ballasts.

This Standard is identical with and has been reproduced from IEC 61347-2-4:2000, *Lamp controlgear—Part 2.4: Particular requirements for d.c. supplied electronic ballasts for general lighting*.

This Standard is a section of Part 2 of a series dealing with Lamp controlgear. Currently this series consists of the following Parts; additional Parts will be added from time to time:

AS/NZS

61347 Lamp controlgear

61347.1 Part 1: General and safety requirements

61347.2.1 Part 2.1: Particular requirements for starting devices (other than glow starters)

61347.2.4 Part 2.4: Particular requirements for d.c. supplied electronic ballasts for general lighting (this Standard)

61347.2.5 Part 2.5: Particular requirements for d.c. supplied electronic ballasts for public transport lighting

61347.2.6 Part 2.6: Particular requirements for d.c. supplied electronic ballasts for aircraft lighting

Each Standard in Part 2 is intended to be used in conjunction with Part 1 in order to provide a complete Standard for that specific type of Lamp controlgear.

It is to be noted that AS/NZS 61347.1, to which this Standard refers for some of its requirements, differs in some respects from IEC 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) A full point should be substituted for a comma when referring to a decimal marker.

In this Standard, the following print types are used:

- requirements proper: in arial type;
- *test specifications: in italic type;*
- explanatory matter: in smaller arial type.

The term 'normative' has been used in this Standard to define the application of the annex to which it applies. A 'normative' annex is an integral part of a Standard.

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## INTRODUCTION

This first edition of ~~IEC 61347-2-4~~ AS/NZS 61347.2.4, published in conjunction with ~~IEC 61347-1~~ AS/NZS 61347.1, represents an editorial review of section three of IEC 60924. 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 ~~IEC 61347-2~~ AS/NZS 61347.2, in referring to any of the clauses of ~~IEC 61347-1~~ 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 ~~IEC 61347-1~~ AS/NZS 61347.1 are referred to in this standard by the phrase "The requirements of clause n of ~~IEC 61347-1~~ 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 ~~IEC 61347-2~~ AS/NZS 61347.2.

## STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

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**Australian/New Zealand Standard****Lamp controlgear****Part 2.4: Particular requirements for d.c. supplied electronic ballasts for general lighting**

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**1 Scope**

This part of ~~IEC 61347~~ **AS/NZS 61347** specifies particular safety requirements for d.c. supplied electronic ballasts intended for operation from transient and surge-free power sources, operated directly from batteries without charging equipment as used in leisure equipment, for example, caravans, etc.

Performance requirements are the subject of IEC 60925.

**2 Normative references**

For the purpose of this part of ~~IEC 61347~~ **AS/NZS 61347**, the normative references given in clause 2 of ~~IEC 61347-1~~ **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 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 60925, D.C. supplied electronic ballasts for tubular fluorescent lamps – Performance requirements

~~IEC 61347-1, Lamp controlgear – Part 1: General and safety requirements~~

**AS/NZS 61347, Lamp controlgear, Part 1: General and safety requirements**

**3 Definitions**

For the purpose of this part of ~~IEC 61347~~ **AS/NZS 61347**, the definitions of clause 3 of ~~IEC 61347-1~~ **AS/NZS 61347.1** apply.

**4 General requirements**

The requirements of clause 4 of ~~IEC 61347-1~~ **AS/NZS 61347.1** apply.

**5 General notes on tests**

The requirements of clause 5 of ~~IEC 61347-1~~ **AS/NZS 61347.1** apply.