

Australian/New Zealand Standard™

Lamp controlgear

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

AS/NZS 61347.2.6:2002

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.

The following are represented on Committee EL-041:

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Australian Chamber of Commerce and Industry
Australian Electrical and Electronic Manufacturers Association
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Australian/New Zealand StandardTM

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

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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 electrical safety requirements for d.c. supplied electronic ballasts suitable for operations from power sources likely to have attendant transients and surges such as in aircraft.

This Standard is identical with and has been reproduced from IEC 61347-2-6:2000, *Lamp controlgear—Part 2.6: Particular requirements for d.c. supplied electronic ballasts for aircraft 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

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 (this Standard)

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 point 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 61347-2-6~~ AS/NZS 61347.2.6, published in conjunction with ~~IEC 61347-1~~ AS/NZS 61347.1, represents an editorial review of section five 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 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 control gear covered by this particular part of ~~IEC 61347-2~~ AS/NZS 61347.2.

STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

Australian/New Zealand Standard
Lamp controlgear**Part 2.6: Particular requirements for d.c. supplied electronic ballasts for aircraft lighting****1 Scope**

This part of IEC 61347-1 AS/NZS 61347.1 specifies particular safety requirements for d.c. supplied electronic ballasts intended for operation from power sources likely to have attendant transients and surges such as in aircraft.

Performance requirements are the subject of IEC 60925.

2 Normative references

For the purpose of this part of IEC 61347-1 AS/NZS 61347.1, 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 bolding. Any Australian or Australian/New Zealand Standard that is identical to the International Standard it replaces is appropriately identified.

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

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

IEC 60925, D.C. supplied electronic ballasts for tubular fluorescent lamps—Performance requirements

3 Definitions

For the purpose of this part of IEC 61347-1 AS/NZS 61347.1, 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.

6 Classification

The requirements of clause 6 of IEC 61347-1 AS/NZS 61347.1 are not applicable.