

# Australian/New Zealand Standard™

## Lamp controlgear

### **Part 2.13: Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules (IEC 61347-2-13, Ed.1.0 (2006) MOD)**



### **AS/NZS IEC 61347.2.13:2013**

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 9 September 2013 and on behalf of the Council of Standards New Zealand on 9 September 2013. This Standard was published on 30 September 2013.

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The following are represented on Committee EL-041:

Australasian Fire and Emergency Service Authorities Council  
Australian Industry Group  
Consumers Federation of Australia  
Department of Resources, Energy and Tourism  
Electrical Compliance Testing Association  
Electrical Regulatory Authorities Council  
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*This Standard was issued in draft form for comment as DR AS/NZS IEC 61347.2.13.*

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First published as AS/NZS IEC 61347.2.13:2013.

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ISBN 978 1 74342 593 0

## PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-041, Lamps and Related Equipment. This Standard is the first edition of AS/NZS IEC 61347.2.13 and it is applicable on publication.

The objective of this Standard is to specify particular minimum safety requirements for d.c. or a.c. supplied electronic controlgear associated with LED modules.

This Standard is an adoption with national modifications and has been reproduced from IEC 61347-2-13, Ed.1.0 (2006), *Lamp controlgear, Part 2-13: Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules*, and has been varied as indicated to take account of Australian/New Zealand conditions. The modifications are specified in Appendix ZZ.

This Standard is to be read in conjunction with AS/NZS 61347.1:2002.

It is to be noted that AS/NZS 61347.1 has Australian and New Zealand variations from IEC 61347-1 and hence product complying with IEC 61347-2-13 and IEC 61347-1 may not comply with AS/NZS 61347.2.13 and AS/NZS 61347.1.

This Standard is structured in the following layout:

- (a) Preface (including Australian and New Zealand references).
- (b) IEC 61347-2-13 (unedited from the contents page to the final clause of the IEC Standard).
- (c) Appendix ZZ—Australian/New Zealand variations to the IEC Standard.

The variations listed in Appendix ZZ form the Australian and New Zealand variations for the purposes of the IECEE CB Scheme for the recognition of testing to standards for safety of electrical equipment.

The variations include the following:

- (i) Clarifying requirements for controlgear with accessible output terminals.
- (ii) Adding requirements for plug-in controlgear to comply with AS/NZS 3112.
- (iii) Adding an additional test for overloading of outputs.
- (iv) Clarifying SELV limits.

The essential safety requirements in AS/NZS 3820, *Essential safety requirements for electrical equipment*, that could be applicable to d.c. or a.c. supplied electronic controlgear for LED modules are covered by this Standard.

In this Standard, the following print types are used:

- (A) Requirements: in roman type
- (B) *Test specifications: in italic type*
- (C) Notes: in small roman type.

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

## AS/NZS

- 61347.1 General and safety requirements (IEC 61347-1:2000, MOD)
- 61347.2.1 Particular requirements for starting devices (other than glow starters)
- 61347.2.2 Particular requirements for d.c. or a.c. supplied electronic step-down convertors for filament lamps (IEC 61347-2-2, Ed. 1.2 (2006) MOD)
- 61347.2.3 Particular requirements for a.c. supplied electronic ballasts for fluorescent lamps (IEC 61347-2-3:2000, MOD)
- 61347.2.4 Particular requirements for d.c. supplied electronic ballasts for general lighting
- 61347.2.5 Particular requirements for d.c. supplied electronic ballasts for public transport
- 61347.2.6 Particular requirements for d.c. supplied electronic ballasts for aircraft lighting
- 61347.2.8 Particular requirements for ballasts for fluorescent lamps (IEC 61347-2-8:2000, MOD)
- 61347.2.9 Particular requirements for ballasts for discharge lamps (excluding fluorescent lamps) (IEC 61347-2-9:2000 MOD)
- 61347.2.10 Particular requirements for electronic invertors and convertors for high-frequency operation of cold start tubular discharge lamps (neon tubes) (IEC 61347-2-10:2000 MOD)
- 61347.2.11 Particular requirements for miscellaneous electronic circuits used with luminaires (IEC 61347-2-11:2001, MOD)
- 61347.2.13 Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules (IEC 61347-2-13, Ed. 1.0 (2006) MOD) (this Standard)

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

- (i) In the source text ‘this part of IEC 61347’ should read ‘this Australian/New Zealand Standard’.
- (ii) A full point substitutes for a comma when referring to a decimal marker.

References to International Standards should be replaced by references to Australian or Australian/New Zealand Standards, as follows:

<i>Reference to International Standard</i>	<i>Australian/New Zealand Standard</i>
IEC	AS
60417-DB* Graphical symbols for use on equipment	60417 Graphical symbols for use on equipment (series)
60269 Low-voltage fuses	60269 Low-voltage fuses
60269-2 Part 2: Supplementary requirements for fuses for use by authorized persons (fuses mainly for industrial application)—Examples of standardized systems of fuses A to J	60269.2.0 Part 2.0: Supplementary requirements for fuses for use by authorized persons (fuses mainly for industrial application)
60269-2.1 Part 2-1: Supplementary requirements for fuses for use by authorized persons (fuses mainly for industrial application)—Sections I to VI: Examples of types of standardized fuses	60269.2.1 Part 2.1: Supplementary requirements for fuses for use by authorized persons (fuses mainly for industrial application)—Sections I to VI: Examples of types of standardized fuses

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