

AS/NZS 61347.1:2002

AS/NZS 61347.1

Australian/New Zealand Standard™

**Lamp controlgear**  
**Part 1: General and safety requirements**  
**(IEC 61347-1:2000, MOD)**

## **AS/NZS 61347.1:2002**

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 30 July 2002 and on behalf of the Council of Standards New Zealand on 24 July 2002. It was published on 27 August 2002.

---

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  
Consumer Federation of Australia  
Electrical Compliance Testing Association of Australia  
Energy Efficiency and Conservation Authority of New Zealand  
Illuminating Engineering Society of Australia and New Zealand  
Ministry of Economic Development, New Zealand  
Electrical Regulatory authorities council (Australia)  
International Accreditation of NZ (IANZ)

---

### **Keeping Standards up-to-date**

Standards are living documents which reflect progress in science, technology and systems. To maintain their currency, all Standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued. Standards may also be withdrawn. It is important that readers assure themselves they are using a current Standard, which should include any amendments which may have been published since the Standard was purchased.

Detailed information about joint Australian/New Zealand Standards can be found by visiting the Standards Australia web site at [www.standards.com.au](http://www.standards.com.au) or Standards New Zealand web site at [www.standards.co.nz](http://www.standards.co.nz) and looking up the relevant Standard in the on-line catalogue.

Alternatively, both organizations publish an annual printed Catalogue with full details of all current Standards. For more frequent listings or notification of revisions, amendments and withdrawals, Standards Australia and Standards New Zealand offer a number of update options. For information about these services, users should contact their respective national Standards organization.

We also welcome suggestions for improvement in our Standards, and especially encourage readers to notify us immediately of any apparent inaccuracies or ambiguities. Please address your comments to the Chief Executive of either Standards Australia International or Standards New Zealand at the address shown on the back cover.

---

AS/NZS 61347.1:2002

Australian/New Zealand Standard™

**Lamp controlgear  
Part 1: General and safety requirements  
(IEC 61347-1:2000, MOD)**

First published as AS/NZS 61347.1:2002.

**COPYRIGHT**

© Standards Australia/Standards New Zealand

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher.

Jointly published by Standards Australia International Ltd, GPO Box 5420, Sydney, NSW 2001 and Standards New Zealand, Private Bag 2439, Wellington 6020

ISBN 0 7337 4774 4

## 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 lamp controlgear for use on d.c supplies up to 250 V and a.c. supplies up to 1000 V ac. at 50 Hz or 60 Hz.

This joint Standard has been reproduced from IEC 61347-1:2000, *Lamp controlgear—General and safety requirements* and modified for Australian/New Zealand conditions.

AS/NZS variations to IEC 61347.1 are identified separately. Strikethrough (~~example~~) identifies the 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.

This Standard is a section of Part 1 of a series dealing with Lamp controlgear. Particular requirements are covered in Part 2 and the following sub-parts have been adopted and published as Australian/New Zealand Standards. Additional parts will be added from time to time.

AS/NZS 61347      Lamp controlgear

- |           |   |
|-----------|---|
| Part 1:   | General and safety requirements (this Standard)                                     |
| Part 2.1: | Particular requirements for starting devices (other than glow starters)             |
| Part 2.4: | Particular requirements for d.c. supplied electronic ballasts for general lighting  |
| Part 2.5: | Particular requirements for d.c. supplied electronic ballasts for public transport  |
| Part 2.6: | Particular requirements for d.c. supplied electronic ballasts for aircraft lighting |

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.
- (c) In reference to clauses in this Standard, equivalent AS/NZS Standard is substituted for IEC wherever applicable.

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.

## CONTENTS

	<i>Page</i>
1 Scope .....	1
2 Normative references .....	1
3 Definitions .....	2
4 General requirements .....	5
5 General notes on tests .....	6
6 Classification .....	6
7 Marking .....	7
<b>8 Terminals, cables and cords .....</b>	<b>8</b>
9 Provisions for protective earthing .....	8
10 Protection against accidental contact with live parts .....	9
11 Moisture resistance and insulation .....	10
12 Electric strength .....	10
13 Thermal endurance test for windings of ballasts .....	11
14 Fault conditions .....	14
15 Construction .....	16
16 Creepage distances and clearances .....	16
17 Screws, current-carrying parts and connections .....	18
18 Resistance to heat, fire and tracking .....	18
19 Resistance to corrosion .....	20
Annex A (normative) Test to establish whether a conductive part is a live part which may cause an electric shock .....	22
Annex B (normative) Particular requirements for thermally protected lamp controlgear .....	23
Annex C (normative) Particular requirements for electronic lamp controlgear with means of protection against overheating .....	30
Annex D (normative) Requirements for carrying out the heating tests of thermally protected lamp controlgear .....	33
Annex E (normative) Use of constant S other than 4 500 in tw tests .....	36
Annex F (normative) Draught-proof enclosure .....	39
Annex G (normative) Explanation of the derivation of the values of pulse voltages .....	40
Annex H (normative) Tests .....	44

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

- 
- Looking for additional Standards? Visit Intertek Inform Infostore
  - Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation
-