

AS/NZS 60922:1998  
IEC 60922:1997

Australian/New Zealand Standard™

---

**Auxiliaries for lamps—  
Ballasts for discharge lamps  
(excluding tubular fluorescent  
lamps)—General and safety  
requirements**

---

## AS/NZS 60922:1998

---

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee EL/41, Lamps and Related Equipment. It was approved on behalf of the Council of Standards Australia on 2 September 1998 and on behalf of the Council of Standards New Zealand on 6 August 1998. It was published on 5 December 1998.

---

The following interests are represented on Committee EL/41:

Association of Consulting Engineers, Australia  
Australian Chamber of Commerce and Industry  
Australian Electrical and Electronic Manufacturers Association  
Electrical Compliance Testing Association of Australia  
Energy Efficiency and Conservation Authority of New Zealand  
Illuminating Engineering Society of Australia and New Zealand  
International Accreditation New Zealand (IANZ)  
Ministry of Commerce, New Zealand  
Regulatory authorities (electrical)

---

**Review of Standards.** To keep abreast of progress in industry, Joint Australian/New Zealand Standards are subject to periodic review and are kept up to date by the issue of amendments or new editions as necessary. It is important therefore that Standards users ensure that they are in possession of the latest edition, and any amendments thereto.

Full details of all Joint Standards and related publications will be found in the Standards Australia and Standards New Zealand Catalogue of Publications; this information is supplemented each month by the magazines 'The Australian Standard' and 'Standards New Zealand', which subscribing members receive, and which give details of new publications, new editions and amendments, and of withdrawn Standards.

Suggestions for improvements to Joint Standards, addressed to the head office of either Standards Australia or Standards New Zealand, are welcomed. Notification of any inaccuracy or ambiguity found in a Joint Australian/New Zealand Standard should be made without delay in order that the matter may be investigated and appropriate action taken.

---

*This Standard was issued in draft form for comment as DR 98227.*

© Copyright – STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

Users of Standards are reminded that copyright subsists in all Standards Australia and Standards New Zealand publications and software. Except where the Copyright Act allows and except where provided for below no publications or software produced by Standards Australia or Standards New Zealand may be reproduced, stored in a retrieval system in any form or transmitted by any means without prior permission in writing from Standards Australia or Standards New Zealand. Permission may be conditional on an appropriate royalty payment. Australian requests for permission and information on commercial software royalties should be directed to the head office of Standards Australia. New Zealand requests should be directed to Standards New Zealand.

Up to 10 percent of the technical content pages of a Standard may be copied for use exclusively in-house by purchasers of the Standard without payment of a royalty or advice to Standards Australia or Standards New Zealand.

Inclusion of copyright material in computer software programs is also permitted without royalty payment provided such programs are used exclusively in-house by the creators of the programs.

Care should be taken to ensure that material used is from the current edition of the Standard and that it is updated whenever the Standard is amended or revised. The number and date of the Standard should therefore be clearly identified.

The use of material in print form or in computer software programs to be used commercially, with or without payment, or in commercial contracts is subject to the payment of a royalty. This policy may be varied by Standards Australia or Standards New Zealand at any time.

AS/NZS 60922:1998

Australian/New Zealand Standard™

---

**Auxiliaries for lamps—  
Ballasts for discharge lamps  
(excluding tubular fluorescent  
lamps)—General and safety  
requirements**

---

Originated in Australia as part of AS 1468—1974.  
Jointly revised and redesignated in part as AS/NZS 60922:1998.

Published jointly by:

Standards Australia  
1 The Crescent,  
Homebush NSW 2140 Australia

Standards New Zealand  
Level 10, Radio New Zealand House,  
155 The Terrace,  
Wellington 6001 New Zealand

ISBN 0 7337 2279 2

## PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL/41, Lamps and Related Equipment, to supersede, in part, AS 1468—1974, *Ballasts for high pressure mercury vapour and low pressure sodium vapour discharge lamps*, which was withdrawn in July 1997.

The objective of this Standard is to provide general and safety requirements for ballasts for discharge lamps such as high-pressure mercury vapour, low- and high-pressure sodium vapour and metal halide lamps, but not tubular fluorescent lamps. The Standard covers inductive ballasts for use on a.c. supplies up to 1000 V at 50 or 60 Hz.

This Standard is identical to and has been reproduced from IEC 60922:1997, *Auxiliaries for lamps—Ballasts for discharge lamps (excluding tubular fluorescent lamps)—General and safety requirements*. \*

In January 1997, the IEC commenced numbering its Standards from 60000 by adding 60000 to the number of each existing Standard. This coordinates IEC numbering with ISO numbering. During the transition period an IEC Standard might be identified by its new number or its old number (for example, IEC 60050 or IEC 50).

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

Its number does not appear on each page of text and its identity is shown only on the cover and title page.

In the source text ‘this International Standard’ should read ‘this Australian/New Zealand Standard’.

A full point should be substituted for a comma when referring to a decimal marker.

French text on figures should be ignored.

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.

A reference to an International Standard identified in the Normative References Clause by strikethrough (~~example~~) is replaced by a reference to the Australian or Australian/New Zealand Standard(s) listed immediately thereafter and identified by shading (**example**). Where the struck-through referenced document and the referenced Australian or Australian/New Zealand Standard are identical, this is indicated in parenthesis after the title of the latter.

The terms ‘normative’ and ‘informative’ have been used in this Standard 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.

---

\* Errors in the text of IEC 60922:1997 have been corrected in this Standard, as follows:

- (a) Normative reference IEC 595-2-2 has been changed to IEC 695-2-2.
- (b) The reference to Table 3 has been inserted in the notes to Table 2.
- (c) Figure 3 has been deleted as it is not referenced.

## CONTENTS

	<i>Page</i>
INTRODUCTION.....	iv
 Clause	
<b>SECTION 1: GENERAL REQUIREMENTS</b>	
1 General.....	1
1.1 Scope and object .....	1
1.2 Normative references .....	1
2 Definitions .....	3
3 General requirements .....	5
4 General notes on tests.....	5
5 Classification .....	6
6 Marking.....	6
6.1 Mandatory markings .....	6
6.2 Information to be provided, if applicable .....	7
6.3 Other information .....	7
6.4 Marking shall be durable and legible .....	7
 <b>SECTION 2: SAFETY REQUIREMENTS</b>	
7 Protection against accidental contact with live parts.....	8
8 Terminals .....	8
9 Provisions for earthing .....	8
10 Moisture resistance and insulation .....	9
11 High-voltage impulse test .....	10
12 Thermal endurance of windings .....	11
13 Ballast heating .....	12
14 Screws, current-carrying parts and connections.....	16
15 Creepage distances and clearances .....	17
16 Resistance to heat, fire and tracking.....	18
17 Resistance to corrosion.....	19
 Annexes	
A Thermal endurance test for windings .....	20
B The use of constants $S$ other than 4500 in $T_w$ tests.....	23
C Draught-proof enclosure.....	26
D Method of selection of varistors .....	27
E Explanation to ballast temperatures.....	28
F Particular requirements for thermally protected ballasts.....	31

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](#)
-