Australian/New Zealand Standard™

Auxiliaries for lamps—D.C. or A.C. supplied electronic step-down convertors for filament lamps—General and safety requirements (IEC 61046:1993, MOD)





AS/NZS 61046:2001

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 21 March 2001 and on behalf of the Council of Standards New Zealand on 4 May 2001. It was published on 5 May 2001.

The following interests 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)
Energy Efficiency and Conservation Authority of New Zealand
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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 general and safety requirements for electronic step-down convertors for use on d.c. supplies up to 250 V or a.c. supplies up to 1 000 V and rated output voltage less than or equal to 50 V r.m.s., for use with tungsten-halogen or other filament lamps.

This Standard has been adopted with national modifications from IEC 61046:1993, Auxiliaries for lamps—D.C. or A.C. supplied electronic step-down convertors for filament lamps—General and safety requirements, including Amendment 1:1995. The changes made by Amendment 1 are indicated by a marginal bar against each clause, table or figure that is affected.

Variations to IEC 61046:1993 are indicated at appropriate places throughout this Standard. Strikethrough identifies IEC tables, figures and passages of text which, for the purpose 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. The variations are listed in Annex ZZ for easy reference.

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.

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) In the source text 'this International Standard' should read 'this Australian/New Zealand Standard'.
- (c) A full point should be substituted for a comma when referring to a decimal marker.
- (d) French text on figures should be ignored.

In this Standard, the following print types are used:

- (i) Requirements proper: in arial type.
- (ii) Test specifications: in italic type.
- (iii) Notes: 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.

To assist the reader, editorial corrections have been made to Table C.6 and to Table C.7 Item 4)c).

Attention is drawn to Electromagnetic Compatibility (EMC) schemes introduced in their respective countries by the Australian Communications Authority (ACA) and the Ministry of Economic Development, New Zealand to manage the use and performance of devices that either intentionally or unintentionally emit electromagnetic energy in the radiofrequency spectrum. Mandated Standards form an integral part of the EMC compliance schemes. Electrical lighting products fall within the scope of AS/NZS 4051, Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment. AS/NZS 4051 has been reproduced from IEC/CISPR 15 (same title) but contains some changes to limits to protect local radio services.

Information on EMC compliance for lighting equipment is to be found on the Internet at http://www.aca.gov.au/standards/emc.htm and for NZ at http://www.moc.govt.nz/rsm

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