

Australian/New Zealand Standard™

**Auxiliaries for lamps—Capacitors for
use in tubular fluorescent and other
discharge lamp circuits—Performance
requirements**

AS/NZS 61049:2002

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.

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Australian Chamber of Commerce and Industry
Australian Electrical and Electronic Manufacturers Association
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Electrical Compliance Testing Association of Australia
Energy Efficiency and Conservation Authority of New Zealand
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STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

RECONFIRMATION

OF

AS/NZS 61049:2002

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Technical Committee EL-041 has reviewed the content of this publication and in accordance with Standards Australia procedures for reconfirmation, it has been determined that the publication is still valid and does not require change.

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NOTES

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-041, Lamps and related equipment.

In Australia, this Standard will supersede AS 2644—1990, *Capacitors for use in discharge lamp circuits*. AS 2644—1990 will co-exist with AS/NZS 61049 until 31 December 2002 on which date AS 2644 will be withdrawn.

The objective of this Standard is to specify performance requirements for continuous rated capacitors up to 2.5 kVAR intended for use in discharge lamp circuits up to 1000 V operating at 50/60 Hz.

This Standard is identical with and has been reproduced from IEC 61049:1991, *Auxiliaries for lamps—Capacitors for use in tubular fluorescent and other discharge lamp circuits—Performance requirements* including Corrigendum 1:1992.

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.

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.

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.

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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STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

Australian/New Zealand Standard

Auxiliaries for lamps—Capacitors for use in tubular fluorescent and other discharge lamp circuits—Performance requirements**1 General****1.1 Scope**

This International Standard states the requirements for both self-healing and non-self-healing continuously rated a.c. capacitors of up to and including 2,5 kvar, and not less than 0,1 μF , having a rated voltage not exceeding 1 000 V, which are intended for use in discharge lamp circuits operating at 50 Hz or 60 Hz and at altitudes up to 3 000 m.

It covers capacitors intended for connection in shunt or in series with the lamp circuit or an effective combination of these.

It covers only impregnated or unimpregnated capacitors, having a dielectric of paper, plastic film or a combination of both, either metallized or with metal foil electrodes.

This standard does not cover radio-interference suppressor capacitors the requirements for which are found in IEC 60384-14.

Tests in this standard are type tests. Guidance on conformity of production is given in annex A.

1.2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

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 shading. Any Australian or Australian/New Zealand Standard that is identical to the International Standard it replaces is appropriately identified.

IEC 60068-2-14: 1984, *Environmental testing - Part 2: Tests. Test N: Change of temperature*. Amendment No. 1 (1986).

*These lamps and associated ballasts are covered in the specifications of the following IEC publications:

60081: 1984, *Tubular fluorescent lamps for general lighting service. Amendment No. 1 (1987)*.

Amendment No. 2 (1988).

60188: 1974, *High-pressure mercury vapour lamps. Amendment No. 1 (1976). Amendment No. 2 (1979). Amendment No. 3 (1984). Amendment No. 4 (1988)*.

60192: 1973, *Low-pressure sodium vapour lamps. Amendment No. 2 (1988)*.

60921: 1988, *Ballasts for tubular fluorescent lamps. Performance requirements*.

60923: 1988, *Ballasts for discharge lamps (excluding tubular fluorescent lamps). Performance requirements*.