

AS/NZS 61047:2024



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Australian/New Zealand Standard™

DC or AC supplied electronic step-down convertors for filament lamps — Performance requirements (IEC 61047:2004 (ED.2.0), MOD)



AS/NZS 61047:2024

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The following are represented on Committee EL-041:

- Australian Industry Group
- Better Regulation Division (Fair Trading, SafeWork NSW, TestSafe)
- Consumer Electronics Suppliers Association
- Consumers Federation of Australia
- Department of Climate Change, Energy, the Environment and Water
- Electrical Compliance Testing Association of Australia
- Electrical Regulatory Authorities Council, Australia
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- Energy Efficiency Council
- IES: The Lighting Society
- Joint Accreditation System of Australia & New Zealand
- Joint Accreditation System of Australia & New Zealand — New Zealand
- Lighting Council Australia
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Preface

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-041, Lamps and Related Equipment, to supersede AS/NZS 61047:2001, *Auxiliaries for lamps—DC or a.c. supplied electronic step-down convertors for filament lamps—Performance requirements*.

The objective of this document is to specify performance requirements for electronic step-down convertors for use on d.c. supplies up to 250 V and a.c. supplies up to 1 000 V at 50 Hz or 60 Hz with operating frequencies deviating from the supply frequency, associated with tungsten halogen lamps as specified in IEC 60357 and other filament lamps.

This document is an adoption with national modifications, and has been reproduced from, IEC 61047:2004, *DC or AC supplied electronic step-down convertors for filament lamps – Performance requirements*.

The modifications are additional requirements and are set out in [Appendix ZZ](#), which have been added at the end of the source text.

[Appendix ZZ](#) lists the modifications to IEC 61047:2004 for the application of this document in Australia and New Zealand.

As this document has been reproduced from an international document, a full point substitutes for a comma when referring to a decimal marker.

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The terms “normative” and “informative” are used in Standards to define the application of the appendices or annexes to which they apply. A “normative” appendix or annex is an integral part of a Standard, whereas an “informative” appendix or annex is only for information and guidance.

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Foreword

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International Standard IEC 61047 has been prepared by subcommittee 34C: Auxiliaries for lamps, of IEC technical committee 34: Lamps and related equipment.

This second edition of IEC 61047 cancels and replaces the first edition published in 1991, its Amendment 1 (1996) and Amendment 2 (2001). This second edition constitutes a technical revision. The first edition needed to be revised completely after the decision to delete all EMC-related requirements, given that EMC varies from region to region.

The text of this standard is based on the following documents:

FDIS	Report on voting
34C/635/FDIS	34C/643/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This standard is to be read in conjunction with IEC 61347-1 and IEC 61347-2-2.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

In this standard, the following print types are used:

- requirements proper: in roman type;
- *test specifications: in italic type;*
- notes: in smaller roman type.

The committee has decided that the contents of this publication will remain unchanged until the maintenance result date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed;
- withdrawn;
- replaced by a revised edition, or
- amended.

Introduction

This International Standard covers performance requirements for electronic step-down convertors for d.c. supplies up to 250 V and a.c. supplies up to 1 000 V at 50 Hz or 60 Hz, operating with controlled voltage filament lamps at frequencies deviating from the supply frequency.

Attention is drawn to the fact that operating frequencies below 20 kHz may cause audio noise.

NOTE CISPR requirements regarding radio interference have to be observed in some countries.

In order to obtain satisfactory performance of filament lamps and electronic convertors, it is necessary that certain features of their designs be properly coordinated.