

AS/NZS 4879.2(Int):2008
Expires 30 June 2010

AS/NZS 4879.2(Int):2008

Interim
Australian/New Zealand Standard™

**Performance of transformers and
electronic step-down convertors for ELV
lamps**

**Part 2: Minimum Energy Performance
Standards (MEPS) requirements**



AS/NZS 4879.2(Int):2008

This Joint Australian/New Zealand Interim Standard was prepared by Joint Technical Committee EL-041, Lamps and Lighting Equipment—Energy Performance. It was approved on behalf of the Council of Standards Australia on 4 June 2008 and on behalf of the Council of Standards New Zealand on 19 May 2008. This Interim Standard was published on 30 June 2008.

The following are represented on Committee EL-041:

Australian Electrical and Electronic Manufacturers Association
Australian Greenhouse Office, Department of the Environment and Water Resources
Consumers' Federation of Australia
Electrical Compliance Testing Association
Energy Efficiency and Conservation Authority of New Zealand
Institution of Professional Engineers New Zealand
National Appliance and Equipment Energy Efficiency Committee

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PREFACE

This Interim Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-041, Lamps and Related Equipment with contributions from the Subcommittee EL-041-08, Lamps and Lighting Equipment—Energy Performance.

The objective of this Interim Standard is to specify the Minimum Energy Performance Standards requirements (MEPS) for transformers and electronic step-down converters for ELV lamps.

This Interim Standard is under the effective joint control of the State and Territory energy regulators and the Energy Efficiency and Conservation Authority (EECA) of New Zealand who have to approve the Standard prior to its publication.

This Interim Standard is structured to allow common requirements in Australia and New Zealand and is suitable for reference in minimum energy performance Standards legislation.

This Interim Standard is Part 2 of a series which consists of the following:

AS/NZS

4879	Performance of transformers and electronic step-down convertors for ELV lamps
4879.1	Part 1: Test method—Energy performance
4879.2	Part 2: Minimum Energy Performance Standards requirements (this Interim Standard)

This series of Interim standards is published with the approval of the combined state and territory energy regulatory authorities in Australia and the New Zealand energy efficiency regulatory authority. In Australia and New Zealand, the minimum energy performance standards for transformers and converters are being introduced. The effective date of legislative and regulatory requirements are yet to be determined. It is anticipated that these requirements will be made mandatory in Australia not earlier than 1 April 2010. This Interim Standard is effective from the date of publication.

Standards Australia/Standards New Zealand invites comments on this Interim Standard from persons and organizations concerned with this subject. The closing date for comments is six months after publication. The date of expiry of this Interim Standard is two years after publication. The Committee will either consider its withdrawal, or revise it in the light of public comment, with the view to the publication of a Joint Australian/New Zealand Standard before the expiry date. Please forward all comments to the Projects Manager of Committee EL-041.

During the life of this document, the Committee will monitor all comment as it is received.

Attention is drawn to the fact that this document is an Interim Joint Australian/New Zealand Standard only and should be regarded as a developmental Standard and liable to future alteration.

The terms ‘normative’ and ‘informative’ are used in this Interim Standard to define the application of the Appendix to which they apply. A normative appendix is an integral part of a Standard, whereas an informative appendix is for information and guidance.

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FOREWORD

The prevalence of ELV lighting systems in Australia and New Zealand has led to the development of Standards to enforce Minimum Energy Performance Standards (MEPS) requirements for ELV lighting systems in Australia and New Zealand, which are not as common in other countries. The MEPS requirement in this Interim Standard is believed to be the first of its kind.

A technical report is available for download from the website <http://www.energyrating.gov.au/library/pubs/200513-mepshalogentrans.pdf>

STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

Australian/New Zealand Standard

Performance of transformers and electronic step-down convertors for ELV lamps

Part 2: Minimum Energy Performance Standards (MEPS) requirements

1 SCOPE AND GENERAL

1.1 Scope

This Interim Standard specifies Minimum Energy Performance Standards (MEPS) requirements for magnetic isolating transformers and electronic step-down convertors with the following characteristics:

- (a) For use with extra-low voltage (ELV).
- (b) Mains supply input.
- (c) Single a.c or d.c ELV output (up to 50 V).
- (d) Rated load up to and including 500 VA.

Units covered by this Interim Standard are referred to as ELV lighting convertors (ELCs) throughout the document.

This Interim Standard shall be read in conjunction with AS/NZS 4879.1.

This Interim Standard does not cover safety requirements which are covered separately in AS/NZS 61347.1 and AS/NZS 61347.2.2.

1.2 Application

This Interim Standard applies to ELCs used in Class III luminaires or SELV lighting systems with an output voltage not exceeding 50 V a.c.

2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS/NZS	
4879	Performance of transformers and electronic step-down convertors for ELV lamps
4879.1	Part 1: Test method—Energy performance
61347	Lamp controlgear
61347.1	Part 1: General and safety requirements (IEC 61347-1:2000, MOD)
61347.2.2	Part 2.2: Particular requirements for d.c. or a.c. supplied electronic step-down convertors for filament lamps (IEC 61347-2-2, Ed. 1.2 (2006) MOD)

3 DEFINITIONS

For the purposes of this Interim Standard, the definitions given in AS/NZS 4879.1 apply.

4 ENERGY EFFICIENCY CLASSIFICATION

4.1 Number of samples

At least one ELC shall be tested in accordance with AS/NZS 4879.1. In addition, at the vendor's discretion, more than one ELC may be tested to verify performance.