

Australian/New Zealand Standard™

**Performance of external power supplies**

**Part 2: Minimum energy performance  
standard (MEPS) requirements**



## **AS/NZS 4665.2:2005**

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee TE-001, Safety of Electronic Equipment. It was approved on behalf of the Council of Standards Australia on 17 October 2005 and on behalf of the Council of Standards New Zealand on 28 October 2005.

This Standard was published on 10 November 2005.

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The following are represented on Committee TE-001:

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Australian Information Industry Association  
Australian Subscription Television and Radio Association  
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Australian/New Zealand Standard<sup>1</sup>

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## PREFACE

This Standard was prepared by the members of the Joint Standards Australia/Standards New Zealand Technical Committee TE-001, Safety of Electronic Equipment.

*This Standard incorporates Amendment No. 1 (February 2009). The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.*

The objective of this Standard is to provide designers, manufacturers, importers, test laboratories, regulators and users of mains input external power supplies having a single extra low voltage output, with minimum energy performance standards (MEPS) requirements for these devices.

This Standard was prepared in response to the publication of a plan for the regulation of external power supplies under the National Appliance and Equipment Energy Efficiency Program (NAEEEP) in 2004. It is published with the approval of Australian and New Zealand regulatory authorities and is structured to be suitable for reference in regulations. It refers to AS/NZS 4665.1:2005 for test procedures.

This series consists of 2 parts. These are:

AS/NZS

4665 Performance of external power supplies

4665.1 Part 1: Test method and energy performance mark

4665.2 Part 2: Minimum energy performance standard (MEPS) requirements (this part)

Part 1 contains the test method for assessing the efficiency of external power supplies and includes information on the energy performance mark. It applies to power supplies with either d.c. or a.c. output up to 250 W or 250 VA respectively.

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Part 2 specifies minimum energy performance standard (MEPS) requirements and ‘high efficiency’ levels for external power supplies. Regulatory authorities have advised that it is intended to mandate this Standard (AS/NZS 4665.2:2005) in regulations in Australian and New Zealand no earlier than 1 December 2008, except for marking requirements which are intended to be mandated no earlier than 1 April 2009 (see also Section 5 and Section 6 as amended).

Regulators advise that transitional arrangements, also known as grandfathering, exist for products that are manufactured in Australia or imported into Australia prior to the MEPS implementation date. Such products can continue to be sold without registration or MEPS compliance until stocks are exhausted. Products that are manufactured in Australia or imported after the MEPS implementation date must hold a valid registration at the time of sale which indicates compliance with the relevant MEPS requirements. Further information can be found in the Administrative Guidelines at the <http://www.energyrating.gov.au> website.

Administrative arrangements during the transition period may vary. Although it is expected that regulators will be able to call the requirements of this Standard into regulations by 1 December 2008, due to legislative variations in different jurisdictions, not all regulators may have regulations in place by that date. Suppliers should contact their regulator to obtain detailed requirements with respect to the application date for registration and holding of records.

The terms ‘normative’ and ‘informative’ are used in this 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.

Statements expressed in mandatory terms in notes to figures, are deemed to be requirements of this Standard. 'Shall' indicates a requirement is mandatory, while 'should' indicates a recommendation and good practice.

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## STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

**Australian/New Zealand Standard**  
**Performance of external power supplies**

**Part 2: Minimum energy performance standard (MEPS)**  
**requirements**

## SECTION 1 SCOPE AND GENERAL

**1.1 SCOPE**

This Standard specifies minimum energy performance standard (MEPS) requirements for single output external power supplies with an output power up to 250 W (see definition in AS/NZS 4665.1:2005).

This Standard further specifies the following:

- (a) Efficiency determination.
- (b) Definition of high efficiency units.
- (c) Test report format.

**1.2 EXCLUSIONS**

This Standard does not apply to the following power supplies:

- (a) External power supplies with simultaneous multiple output voltages (e.g. some personal computer power supplies)
- (b) D.c. to d.c. voltage conversion equipment such as d.c. to d.c. converters.
- (c) Power supplies within the scope of AS/NZS 4879 or IEC 61347.2.13.
- (d) The *Trade Practices Act 1974* requires a part to be 'reasonably available' after the acquisition of goods by a consumer. Therefore an external power supply that is made available by a manufacturer directly to a consumer or to a service or repair facility after and separate from the original sale of the product requiring the external power supply as a service part or spare part shall be exempt from meeting MEPS requirements for a period of 5 years from the date of introduction of MEPS.
- (e) Therapeutic devices in the Australian Register of Therapeutic Goods in accordance with the *Therapeutic Goods Act 1989* as amended by the Therapeutic Goods Amendment (Medical Devices) Bill 2002, the Therapeutic Goods (Medical Devices) Regulations 2002 and any subsequent amendments shall be exempt from meeting the above MEPS requirements.

This Standard does not specify electrical safety requirements.

**1.3 APPLICATION**

This Standard shall be read in conjunction with AS/NZS 4665.1:2005.