

STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

Amendment No. 1
to
AS/NZS 4665.2:2005
Performance of external power supplies
Part 2: Minimum energy performance standard (MEPS) requirements

REVISED TEXT

The 2005 edition of AS/NZS 4665.2 is amended as follows; the amendments should be inserted in the appropriate places.

SUMMARY: This Amendment applies to the Preface, Clauses 1.2, 1.4, 1.5, 2.1, 4.2, 4.3 and 4.4, Sections 3 and 6 and Appendices A and B.

Published on 27 February 2009.

Approved for publication in New Zealand on behalf of the Standards Council of New Zealand on 29 January 2009.

Preface

- 1 In the sixth paragraph, *delete* the second sentence and *replace* with the following:

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).

- 2 In the eighth paragraph, *replace* '1 October 2007' with '1 December 2008'.

Clause 1.2

Add items (c), (d) and (e) as follows:

- (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.

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Clause 1.4

Delete the following referenced documents:

IEC

60050-300 International Electrotechnical Vocabulary—Electrical and electronic measurements and measuring instruments

IEEE

100 The Authoritative Dictionary of IEEE Standards Terms

Clause 1.5.1

Delete the Clause and replace with the following:

1.5.1 Registration**1.5.1.1 Registration (Australia)**

The completion and submission to an Australian Regulator of the prescribed application form demonstrating that the product complies with the relevant Energy Performance Standards and/or the Standards Mandatory Energy Performance Labelling.

1.5.1.2 Registration (New Zealand)

The completion and submission to EECA of the prescribed application form demonstrating that the product complies with the relevant Energy Performance Standards and/or the Standards Mandatory Energy Performance Labelling.

1.5.3 Regulators

Entities set out in the list of regulators maintained on the www.energyrating.gov.au website, for the purposes of registration.

1.5.3 Trans Tasman Mutual Recognition Agreement (TTMRA)

The Agreement dated 1 May 1998 between The Commonwealth of Australia, The State of New South Wales, The State of Victoria, The State of Queensland, The State of Western Australia, The State of South Australia, The State of Tasmania, The Australian Capital Territory, The Northern Territory of Australia and New Zealand.

Clause 2.1

Delete the Clause and *replace* with the following:

2.1 A.C.–D.C. EXTERNAL POWER SUPPLIES

When measured in accordance with AS/NZS 4665.1:2005, at 230 V a.c. or 240 V a.c. as applicable, a single output external power supply shall meet both the no load power consumption and average active mode efficiency requirements specified for an Energy Performance Mark III in AS/NZS 4665.1:2005.

2.2 A.C.–A.C. EXTERNAL POWER SUPPLIES

When measured in accordance with AS/NZS 4665.1:2005, at 230 V a.c. or 240 V a.c. as applicable, a single output external power supply shall meet the average active mode efficiency requirements specified for an Energy Performance Mark III in AS/NZS 4665.1:2005.

NOTE: The failure to meet any performance validation criteria of any one of the models included in a family of models in a registration, is indicative that all models within the family registration fail the performance criteria.

Section 3

Delete Section 3 and *replace* with the following:

SECTION 3 HIGH EFFICIENCY LEVELS**3.1 HIGH EFFICIENCY LEVEL IV REQUIREMENTS (HE IV)****3.1.1 a.c.–d.c. external power supplies**

A single output external power supply may be designated ‘high efficiency IV’ only if both its no load power consumption and average active mode efficiency, when measured in accordance with AS/NZS 4665.1:2005, at 230 V a.c. or 240 V a.c. as applicable, meet the levels specified for an Energy Performance Mark IV in AS/NZS 4665.1:2005.

3.1.2 a.c.–a.c. external power supplies

A single output external power supply may be designated ‘high efficiency IV’ only if the average active mode efficiency, when measured in accordance with AS/NZS 4665.1:2005, at 230 V a.c. or 240 V a.c. as applicable, meets the level specified for an Energy Performance Mark IV in AS/NZS 4665.1:2005.

NOTE: The failure to meet any performance validation criteria of any one of the models included in a family of models in a registration, is indicative that all models within the family registration fail the performance criteria.

3.2 HIGH EFFICIENCY LEVEL V REQUIREMENTS (HE V)**3.2.1 a.c.–d.c. external power supplies**

A single output external power supply may be designated ‘high efficiency V’ only if both its no load power consumption and average active mode efficiency when measured in accordance with AS/NZS 4665.1:2005, at 230 V a.c. or 240 V a.c. as applicable, meets the levels specified for an Energy Performance Mark V in AS/NZS 4665.1:2005.

3.2.2 a.c.–a.c. external power supplies

A single output external power supply may be designated ‘high efficiency V’ only if the average active mode efficiency when measured in accordance with AS/NZS 4665.1:2005, at 230 V a.c. or 240 V a.c. as applicable, meets the levels specified for an Energy Performance Mark V in AS/NZS 4665.1:2005.

NOTE: The failure to meet any performance validation criteria of any one of the models included in a family of models in a registration, is indicative that all models within the family registration fail the performance criteria.

Clause 4.2

Delete the Clause and *replace* with the following:

4.2 TESTING AND PERFORMANCE MARKING

Australian and New Zealand MEPS and high efficiency performance and mandatory marking is as follows:

Nameplate voltage and frequency	MEPS/High efficiency test voltage	MEPS/High efficiency levels	Performance mark	Voltage qualifier
230 V a.c. 50 Hz	230 V a.c.	AS/NZS 4665.2	III, IV or V	none
Multiple	230 V a.c.	AS/NZS 4665.2	III, IV or V	230

Clause 4.3

Delete the text of the Clause and *replace* with the following:

Family of models or multi-switch models shall be tested at the highest and the lowest voltage outputs of the power supply. Models shall meet MEPS requirements at both the highest and the lowest voltage.

Clause 4.4

Delete the text of the Clause and *replace* with the following:

For the purposes of verification of the rated values of a model, at least one unit of the nominated model should be tested in accordance with AS/NZS 4665.1:2005. More than one unit may be tested at the supplier’s discretion, however, the tested values for each parameter and all units tested, shall meet the claimed energy performance mark.

Clause 5.1

Delete the Clause, including title, and *replace* with the following:

A single output external power supply that is marked with the energy performance mark shall meet the requirements for the energy performance mark as specified in Clause 4.2.

NOTE: This requirement forms part of the Standard on publication but ceases to be part of the Standard on 1 April 2009.

A single output external power supply shall be marked with the energy performance mark and shall meet the requirements for the energy performance mark as specified in Clause 4.2.

NOTE: This requirement forms part of the Standard on 1 April 2009.