

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.

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The following are represented on Committee TE-001:

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Australian Electrical and Electronic Manufacturers Association
Australian Greenhouse Office, Department of the Environment and Heritage
Australian Information Industry Association
Australian Subscription Television and Radio Association
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AS/NZS 4665.2:2005

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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.

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.

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 Part 2 Standard in regulations in Australia and New Zealand no earlier than 1 October 2007 (see also Clause 6.1.5).

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 October 2007, 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.

This Standard does not specify electrical safety requirements.

1.3 APPLICATION

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

1.4 REFERENCED DOCUMENTS

The following normative documents contain provisions which, through reference in this text, constitute provisions of this Standard:

AS	
2706	Numerical values—Rounding and interpretation of limiting values
AS/NZS	
4665	Performance of external power supplies
4665.1	Part 1: Test method and energy performance mark
IEC	
60050-300	International Electrotechnical Vocabulary—Electrical and electronic measurements and measuring instruments
IEEE	
100	The Authoritative Dictionary of IEEE Standards Terms

1.5 DEFINITIONS

For the purpose of this Standard, the definitions of AS/NZS 4665.1:2005, IEC 60050-300, IEEE 100 and those below apply.

1.5.1 Family of models

A range of models of the one brand, for which a single set of test reports is applicable and where each of the models has the same relevant physical characteristics, no-load power consumption and active mode efficiency. The term 'model' is synonymous with 'family of models'.

1.6 MEASURED QUANTITIES

Quantities used in this Standard shall be measured during tests carried out in accordance with AS/NZS 4665.1:2005.

1.7 ROUNDING

Unless otherwise stated, numbers shall be rounded and recorded to four significant figures in accordance with AS 2706.

SECTION 2 MINIMUM ENERGY
PERFORMANCE STANDARDS

2.1 MINIMUM ENERGY PERFORMANCE STANDARD REQUIREMENTS

When measured in accordance with AS/NZS 4665.1:2005, 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.

SECTION 3 HIGH EFFICIENCY LEVEL

3.1 HIGH EFFICIENCY LEVEL REQUIREMENTS

A single output external power supply may be designated 'high efficiency' only if both its no-load power consumption and average active mode efficiency, measured in accordance with AS/NZS 4665.1:2005, meet the levels specified for an Energy Performance Mark IV in AS/NZS 4665.1:2005.

SECTION 4 DETERMINING PERFORMANCE OF SINGLE OUTPUT EXTERNAL POWER SUPPLIES

4.1 EFFICIENCY CALCULATION

Efficiency shall be calculated by dividing the EUT's measured output power at a given load condition by the active a.c. input power measured at that load condition.

Average efficiency shall be calculated and reported. Average efficiency is the arithmetic mean of the efficiency values calculated at test conditions 1, 2, 3, and 4 in Table 1.

TABLE 1
LOAD CONDITIONS FOR EUT

Percentage of nameplate output current	
Load condition	Percentage
1	100 ±2
2	75 ±2
3	50 ±2
4	25 ±2
5	0

NOTE: The 2% allowance is of nameplate output current, not of the calculated current value. For example, a EUT at load condition 3 may be tested in a range from 48% to 52% of rated output current.

4.2 MODELS CAPABLE OF OPERATING AT MULTIPLE VOLTAGE/FREQUENCY COMBINATIONS

- (a) Where the EUT is marked with an energy performance mark and has nameplate input voltages or an input voltage range which includes both 115 V and 230 V, testing shall be conducted at both 115 V, 60 Hz and 230 V, 50 Hz, with the least efficient set of test values used to determine compliance with the MEPS in this Standard.
- (b) Where the EUT is not marked with an energy performance mark and has nameplate input voltages or an input voltage range which includes both 115 V and 230 V, testing may be conducted at only 230 V, 50 Hz, and the test values used to determine compliance with the MEPS in this Standard.

4.3 MULTIPLE TAP OR SWITCH SELECTABLE MODELS

Multiple tap or switch selectable external power supplies shall be tested at the highest and the lowest voltage outputs of the power supply. If the unit meets the MEPS requirements at both its highest and the lowest voltage output, then it is deemed to comply.

4.4 NUMBER OF TESTS AND PROCESSING OF DATA

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 MEPS requirements specified in Clause 2.1.

SECTION 5 ENERGY PERFORMANCE MARK

5.1 ENERGY PERFORMANCE MARKING REQUIREMENT

Any external power supply that is marked with the energy performance mark shall meet the requirements for the energy performance mark as specified in AS/NZS 4665.1:2005.

SECTION 6 APPLICATION AND TEST REPORT FORMATS

6.1 APPLICATION FOR REGISTRATION

6.1.1 General

Where the relevant regulatory authority requires registration or approval of MEPS requirements, Clauses 6.1.2 to 6.1.5 shall apply.

NOTE: At the date of publication of this Standard, the requirements of this Clause 6.1.1 are applicable in Australia.

6.1.2 Registration

For MEPS registration of a single output external power supply brand and model, or type, an application in the format shown in Appendix A of this Standard shall be submitted.

NOTE: Applications in the form of computer printouts, which present all the information in a similar layout to the forms in Appendix A, are equally acceptable.

To register, contact the relevant state regulatory authority.

NOTE: Details of the relevant regulatory bodies, regulations and electronic copies of application for registration forms, as well as online registrations are available at <http://www.energyrating.gov.au> website.

6.1.3 Test report format

A test report summary in accordance with Appendix B for each model tested should be submitted, if available, with the MEPS application.

Where a summary report in accordance with Appendix B is not submitted, the source of data used in the MEPS application shall be indicated in the application for registration form of Appendix A.

6.1.4 Availability

All supporting documents and test reports used in the MEPS application and any summary report in Appendix B shall be made available to the relevant regulatory authority upon request. These records shall be retained for at least five years after the last date of manufacture or import, whichever is applicable.

6.1.5 MEPS transition

From the date of publication of this Standard, it is anticipated that regulatory authorities will register single output external power supplies in accordance with this Standard.

Regulatory authorities have advised that all single output external power supplies within the scope of MEPS, manufactured or imported for sale into Australia on or after 1 October 2007 will be required to meet the MEPS requirements specified in this Standard and such units will be required to hold a valid registration. Information on transitional arrangements (grandfathering) is given in the Administrative Guidelines available at <http://www.energyrating.gov.au> website.

6.2 HOLDING OF RECORDS

6.2.1 General

Where the registration or approval of MEPS is not required, Clauses 6.2.2 to 6.2.4 shall apply.

NOTE: At the date of publication of this Standard, the requirements of this Clause 6.2.1 are applicable in New Zealand. New Zealand does not operate a registration process but does require submission of information for mandatory listing. Therefore suppliers must ensure that products are either registered in Australia or the form in Appendix A is submitted to the New Zealand regulatory authority.

6.2.2 Data

Appendix A, Paragraph A4, Sections 1 to 6 outline the information that shall be recorded and held by the power supply supplier to support the performance claims inherently made with respect to MEPS or high efficiency levels.

6.2.3 Test report

A test report summary in accordance with Appendix B for each model tested should be submitted with the MEPS application. A detailed source test report used for the MEPS application shall be retained by the supplier.

6.2.4 Availability

The documents required by this section shall be made available to the relevant regulatory authority upon request. Records shall be retained for at least five years after the last date of manufacture or import, whichever is applicable.

APPENDIX A

FORMAT OF APPLICATION FOR REGISTRATION OF EXTERNAL POWER
SUPPLIES FOR MEPS

(Normative)

A1 SCOPE

This Appendix sets out the required format for submitting an application for registration and record keeping.

NOTES:

- 1 The contact details supplied by applicants in this form or online may be used by other Government agencies to keep applicants informed of forthcoming regulatory changes that may affect the product registered under this Standard. Otherwise, contact details are treated as private and confidential.
- 2 NOTICE OF RIGHT TO DISCLOSE INFORMATION—The information you submit on this application will be used for the purposes of assessing your application and the performance of statutory responsibilities. The information which you have submitted may be disclosed to other state, territory or New Zealand energy efficiency government bodies (or their agents) who may use the information for the purposes of carrying out their duties and or responsibilities including comparing efficiency claims. The information will also be entered onto the Online Registration Database. Publicly accessible data and more information are available at <http://www.energyrating.gov.au> website.

A2 GUIDANCE ON THE USE OF THIS APPLICATION FORM

The preferred method of making an application for MEPS is via the online registration system. To use this system, you need to apply for a user name and password. Once a user name has been issued, you will have full access to the online system. Details on how to apply for a user name and password and how to log on to the online system can be found at <http://www.energyrating.gov.au> website.

A3 SUBMISSIONS TO THE NEW ZEALAND REGULATOR

Applications for listing with the New Zealand regulator can be made online at <http://www.energyrating.gov.au> website.

Applicants who have listed their product with the New Zealand regulator and intend to rely on the goods access provisions of the Trans Tasman Mutual Recognition Arrangement to sell that product in Australia without registering it with an Australian regulator shall comply with the following conditions:

- (a) The company responsible for the manufacture or importation of this product shall have its registered offices in New Zealand.
- (b) In respect of the product imported or manufactured by the applicant, this product shall be either imported into New Zealand (but not directly into Australia) or manufactured in New Zealand (not in Australia).
- (c) If this product is imported into Australia, then it shall be imported through New Zealand.

A4 APPLICATION FORM**APPLICATION FOR REGISTRATION OF AN EXTERNAL POWER SUPPLY FOR MEPS**

(Please type or print)

SECTION 1 APPLICATION DETAILS	
Name of applicant: Company name of applicant: Company Australian Business Number:	
Company street address of applicant:	
Company postal address of applicant:	
Contact person: (A name, address and contact details for a person in Australia or New Zealand shall be provided)	Name:
	Address:
	Position/Title:
	Telephone:
	Facsimile:
	E-mail:
Website:	
The Standard under which this application is made:	AS/NZS 4665.2:2005
If the applicant is not the manufacturer or importer of the product to be registered you must confirm that you have lodged a letter of authority to make this registration application: (Indicate correct answer)	Confirmed Not confirmed
Is the application meant for a single model or a family of models? (Identify one)	Single Family

SECTION 2 DESCRIPTION OF EXTERNAL POWER SUPPLY			
Brand name:			
Model designation: (List all models covered by this application. This can be either a number or name or combination of the two that will identify the particular product. Add additional rows if more than 3 models)	Model 1:		
	Model 2:		
	Model 3:		
Family model designation, if applicable, for above models:			
Does this model or family replace or supplement another model or family with identical output characteristics? (Indicate correct answer)	Yes		No
If yes, indicate relevant details:	Model name:	Model number:	Registration number:
Country of manufacture:			
In what countries are these models to be sold? (Indicate correct answer) NOTE: The response will determine how the model will be displayed on Government energy rating websites in Australia and/or New Zealand. If 'Neither Australian nor New Zealand' is selected, the model will not appear on those websites.	Australia but not New Zealand Both Australia and New Zealand New Zealand but not Australia Neither Australia or New Zealand Not stated		
Year and month in which the model will be/was first available in Australia or New Zealand: NOTE: The registration will not appear on the energyrating website before that date.	Year:		Month:
Does the power supply model have any markings to indicate date, serial number or batch number?	Yes		No
SECTION 3 TESTING AND TEST REPORT			
Is a test report attached? (Indicate correct answer)	Yes		No

<p>If no test report is attached note the source registration number of the appliance upon which this application relies for its test report.</p> <p>(Proceed to Section 4 if no report attached)</p>	
<p>Test laboratory type: (identify one)</p>	<p>Own 'in-house' or manufacturer's laboratory</p> <p>Independent laboratory</p>
<p>Test laboratory name:</p>	
<p>Test laboratory address:</p>	
<p>Test laboratory location: (indicate correct answer)</p>	<p>Australia</p> <p>New Zealand</p> <p>Other — (please specify):</p>
<p>Test laboratory accreditation:</p>	<p>1 NATA</p> <p>2 NATA recognized</p> <p>3 Non NATA</p> <p>4 Unknown</p> <p>5 Others</p>
<p>Test Standard used: (Identify one)</p>	<p>AS/NZS 4665.1:2005</p> <p>Other — (please specify)</p>
<p>Name of test report signatory:</p>	
<p>Test report number(s) and date(s):</p>	<p>Report number(s):</p> <p>Report date(s):</p>
<p>Comments regarding the appliance, the test procedure or test results that should be taken into consideration when assessing the product for compliance:</p> <p>E.g. model name different to intended name.</p>	
<p>SECTION 4 SPECIFIC PRODUCT DETAILS</p>	
<p>Nameplate input voltage (V)</p>	
<p>Nameplate input frequency (Hz)</p>	
<p>Nameplate output voltage (V)</p>	
<p>Nameplate output current (A) and/or Nameplate output power (W)</p>	

SECTION 5 TEST AND CALCULATED RESULTS		
Data below is based on test results and should be supported with a summary test report in accordance with Appendix B		
(Add the results for each test undertaken)	[Test 1]	[Test 2]
Input supply frequency (indicate at least one)		
Input voltage (indicate at least one)		
No-load power consumption (W)		
Active mode efficiency at 25% loading (%)		
Active mode efficiency at 50% loading (%)		
Active mode efficiency at 75% loading (%)		
Active mode efficiency at 100% loading (%)		
SECTION 6 MINIMUM ENERGY PERFORMANCE STANDARDS		
MEPS are mandatory for all external power supplies that are covered within the scope of this Standard (see Clauses 1.1 and 1.2). Detailed MEPS requirements are set out in Clause 2.1 of this Standard.		
Nameplate output power (W):	_____	
Applicable MEPS levels		
No-load power (W):	_____	
Average efficiency (%):	_____	
Tested levels		
No-load power (W):	_____	
Average efficiency (%):	_____	
Performance prerequisite declaration		
Does this model comply with MEPS? (Identify one)	Yes	No
HIGH EFFICIENCY POWER SUPPLIES		
An external power supply may be designated as 'high efficiency' if the requirements set out in Clause 3.1 of this Standard are met.		

Applicable High Efficiency levels		
No-load power (W):	_____	
Average efficiency (%):	_____	
Tested levels		
No-load power (W):	_____	
Average efficiency (%):	_____	
Performance prerequisite declaration		
Does this model comply with high efficiency requirements? (Indicate correct answer)	Yes	No
Is the product marked with an energy performance mark (refer Section 5)? (Indicate correct answer)	Yes	No
If yes, which numeral is marked on the product:		
SECTION 7 DECLARATION		
I declare that the details stated in this application are correct.		
Signature of Applicant:		Date:
Office use only		
Date received:	Registration number:	

APPENDIX B

SUMMARY TEST REPORT FOR AN EXTERNAL POWER SUPPLY FOR MEPS

(Informative)

This appendix sets out the preferred format for a test report where the external power supply is tested to AS/NZS 4665.1:2005.

TEST REPORT OF AN EXTERNAL POWER SUPPLY FOR ENERGY PERFORMANCE

(Please type or print)

DESCRIPTION OF POWER SUPPLY	
Brand name:	
Model name or family name (if available):	
Model number or family number:	
Batch number:	
Nameplate input voltage (V)	
Nameplate input frequency (Hz)	
Nameplate output voltage (V)	
Nameplate output current (A) and/or Nameplate output power (W)	
Country of manufacture:	
LABORATORY DETAILS	
Test laboratory type: (identify one)	Own 'in-house' laboratory Independent laboratory
Test laboratory name:	
Test laboratory location: (identify one)	Australia New Zealand Other — (please specify):
Test laboratory address:	
Test laboratory accreditation:	
Note: Laboratory details for each test to be included, where more than one laboratory has been used.	

TEST AND CALCULATED RESULTS		
Tests should be undertaken in accordance with AS/NZS 4665.1:2005.		
Test report number:		
Date of test:		
Test Standard used:		
(Add the results for each test undertaken)	[Test 1]	[Test 2]
Input supply frequency (indicate at least one)		
Input voltage (indicate at least one)		
A.c. input power at 0% loading (W)		
A.c. input power at 25% loading (W)		
D.c. output voltage at 25% loading (V)		
D.c. output current at 25% loading (A)		
Calculated output power at 25% loading (W)		
A.c. input power at 50% loading (W)		
D.c. output voltage at 50% loading (V)		
D.c. output current at 50% loading (A)		
Calculated output power at 50% loading (W)		
A.c. input power at 75% loading (W)		
D.c. output voltage at 75% loading (V)		
D.c. output current at 75% loading (A)		
Calculated output power at 75% loading (W)		
A.c. input power at 100% loading (W)		
D.c. output voltage at 100% loading (V)		
D.c. output current at 100% loading (A)		
Calculated output power at 100% loading (W)		
True power factor – average over the five tests (W/VA)		
Energy performance mark e.g. I, II, III, etc		

NOTES

Standards Australia

Standards Australia is an independent company, limited by guarantee, which prepares and publishes most of the voluntary technical and commercial standards used in Australia. These standards are developed through an open process of consultation and consensus, in which all interested parties are invited to participate. Through a Memorandum of Understanding with the Commonwealth government, Standards Australia is recognized as Australia's peak national standards body.

Standards New Zealand

The first national Standards organization was created in New Zealand in 1932. The Standards Council of New Zealand is the national authority responsible for the production of Standards. Standards New Zealand is the trading arm of the Standards Council established under the Standards Act 1988.

Australian/New Zealand Standards

Under a Memorandum of Understanding between Standards Australia and Standards New Zealand, Australian/New Zealand Standards are prepared by committees of experts from industry, governments, consumers and other sectors. The requirements or recommendations contained in published Standards are a consensus of the views of representative interests and also take account of comments received from other sources. They reflect the latest scientific and industry experience. Australian/New Zealand Standards are kept under continuous review after publication and are updated regularly to take account of changing technology.

International Involvement

Standards Australia and Standards New Zealand are responsible for ensuring that the Australian and New Zealand viewpoints are considered in the formulation of international Standards and that the latest international experience is incorporated in national and Joint Standards. This role is vital in assisting local industry to compete in international markets. Both organizations are the national members of ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission).

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