

Australian/New Zealand Standard™

**Power consumption of audio, video and
related equipment**

**Part 2.1: Minimum energy performance
standards (MEPS) requirements for
digital television set-top boxes**



AS/NZS 62087.2.1:2008

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 19 August 2008 and on behalf of the Council of Standards New Zealand on 5 September 2008.
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The following are represented on Committee TE-001:

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Australian Communications and Media Authority
Australian Electrical and Electronic Manufacturers Association
Australian Greenhouse Office, Department of the Environment and Water Resources
Australian Information Industry Association
Australian Subscription Television and Radio Association
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Australian/New Zealand Standard

Power consumption of audio, video and related equipment

Part 2.1: Minimum energy performance standards (MEPS) requirements for digital television set-top boxes

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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 (July 2009) and Amendment No.2 (February 2010). The changes required by the Amendments 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 digital television set-top boxes with the minimum energy performance standards (MEPS) requirements for these devices.

This Standard was prepared in response to the publication of a plan to regulate set-top boxes under the National Appliance and Equipment Energy Efficiency Program (NAEEP) in 2004.

This Standard is published with the approval of the Australian and New Zealand regulatory authorities and is structured to be suitable for reference in regulations.

This series consists of two parts. These are—

AS/NZS

62087:2004 Methods of measurement for the power consumption of audio, video and related equipment

62087 Power consumption of audio, video and related equipment

62087.2.1 Part 2.1: Minimum energy performance standards (MEPS) requirements for digital television set-top boxes (this standard)

Part 1 contains the test methods to be used when measuring the power consumption of various audio, video and related equipment, including set-top boxes.

Part 2 (this part) specifies minimum energy performance standards (MEPS) requirements and high efficiency levels for digital television set-top boxes. Regulatory authorities in Australia and New Zealand have advised that it is intended to make the requirements of Part 2 mandatory by including them in regulations no earlier than 1 December 2008.

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

Administrative arrangements during the transition period may vary. It is expected that regulators will be able to call the requirements of this Standard into regulations by 1 December 2008. However, owing to legislative variations in different jurisdictions, not all regulators may have regulations in place by that date. Suppliers should contact the appropriate energy efficiency regulators to obtain detailed requirements with respect to the application date for registration and the holding of records in a particular jurisdiction.

During the development of this Standard, consideration was given to the target power consumption limits and time schedules for similar products listed in the Code of Conduct on Energy Efficiency of Digital TV Service Systems, revision 12, 19 November 2003, published by the European Commission, Directorate-General Energy and Transport.

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 only for information and guidance.

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

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STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

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requirements for digital television set-top boxes**

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard specifies minimum energy performance standards (MEPS) requirements for digital television (DTV) set-top boxes (STBs).

This Standard further specifies the following:

- (a) Requirements of 'high efficiency' units.
- (b) Format of test report.

NOTE: The main purpose of this Standard is to specify energy efficiency requirements for simple, stand-alone DTV STBs associated with terrestrial DTV broadcasts. Regulatory authorities have advised that energy efficiency requirements, other than those specified in this Standard, for more complicated STBs, such as those associated with cable and satellite DTV broadcasting, will be considered in conjunction with international developments.

1.2 EXCLUSIONS

This Standard does not apply to digital receivers that are integrated with other equipment, such as television receivers, digital recorders and DVD players. This Standard also does not apply to devices designed to receive television signals via broadband Internet services.

NOTE: Energy efficiency requirements for integrated or multifunction equipment are under consideration. As information regarding such products becomes available, it will be added to the relevant government website: <http://www.energyrating.gov.au>

This Standard does not specify electrical safety requirements.

1.3 APPLICATION

This Standard shall be read in conjunction with AS/NZS 62087:2004.

1.4 REFERENCED DOCUMENTS

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

AS 2706	Numerical values—Rounding and interpretation of limiting values
4933	Digital television—Requirements for receivers
4933.1	Part 1: VHF/UHF DVB-T television broadcasts
AS/NZS 62087:2004	Methods of measurement for the power consumption of audio, video and related equipment