

Australian/New Zealand Standard™

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

**Part 2.2: Minimum energy performance standards (MEPS) and energy rating label requirements for television sets**



## **AS/NZS 62087.2.2:2011**

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 5 October 2011 and on behalf of the Council of Standards New Zealand on 11 October 2011.

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## Australian/New Zealand Standard<sup>™</sup>

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

### Part 2.2: Minimum energy performance standards (MEPS) and energy rating label requirements for television sets

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## PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Technical Committee TE-001, Safety of Electronic Equipment, to supersede AS/NZS 62087.2.2:2010.

*This Standard incorporates Amendment No. 1 (June 2012) and Amendment No. 2 (December 2012). 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.*

A1 | Amendment 1 (2012) to this Standard changes the Star Rating Index to recalibrate the 4 star level to 1 star on the label and applies to all television sets imported into Australia on or after 1 April 2013. Amendment 1 does not change the Tier 2 MEPS requirement as specified in Clause 5.3 of this Standard.

The main changes in the 2011 revision are changing Tier 2 MEPS to 4 Stars. Also included is the correction to the label which previously referenced the incorrect Standard AS/NZS 62087.1, and it now references the correct Standard which is AS/NZS 62087.2.2. Transitional arrangements for the use of the new label are also included. Two methods of declaring standby power are now included. Method 1 can be used where there are two or less standby modes. Method 2 is to be used where there are more than two standby modes or as an alternative to Method 1 where there are two or less standby modes.

The objective of this Standard is to provide designers, manufacturers, importers, test laboratories, regulators and users of mains-operated television sets with minimum energy performance standards (MEPS) and energy rating label requirements for these devices.

In Australia, the energy labelling and MEPS requirements set out in this Standard have been in force since 1 October 2009. Television sets that are imported into Australia or manufactured in Australia beyond the effective date, and do not comply with the requirements of this Standard, will be deemed non-compliant and may not be permitted to be sold in Australia. Information can be found at the <http://www.energyrating.gov.au> website.

A2 | MEPS are implemented in two tiers. Tier 1 MEPS applies to all television sets imported into Australia on or after 1 October 2009. Tier 2 MEPS will apply to all television sets imported into Australia no earlier than 1 April 2013.

A1 | In New Zealand, Tier 1 MEPS and Labelling requirements will apply to all television sets manufactured in, or imported into, New Zealand on or after the date that Tier 1 MEPS and Labelling requirements are incorporated by reference into legislation. **NZ**

In New Zealand, Tier 2 MEPS and Labelling requirements are under consideration and will apply to all television sets manufactured in, or imported into, New Zealand when Tier 2 MEPS and Labelling requirements are incorporated by reference into legislation. **NZ**

This Standard was prepared in response to the publication in 2008 of a plan for the regulation of television sets formulated by the Equipment Energy Efficiency Committee. 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 62087.1 for test procedures.

This series, when complete, will consist of the following parts:

AS/NZS	
62087	Power consumption of audio, video and related equipment
62087.1	Part 1: Methods of measurement

AS/NZS

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

62087.2.2 Part 2.2: Minimum energy performance standards (MEPS) and energy rating label requirements for television sets (this Standard)

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 a mandatory requirement, while 'should' indicate a recommendation.

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## STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

**Australian/New Zealand Standard****Power consumption of audio, video and related equipment**

## SECTION 1 SCOPE AND GENERAL

**1.1 SCOPE**

This Standard specifies minimum energy performance standards (MEPS) and energy rating label requirements for television sets as defined in AS/NZS 62087.1.

**1.2 EXCLUSIONS**

This Standard does not apply to the following:

- (a) Handheld television sets powered solely from batteries. This includes handheld televisions that have provision for connection to the mains for the sole purpose of charging the batteries. It does not include handheld televisions that have provision for connection to the mains that powers the televisions when the batteries are charging, fully charged or not present.
- (b) Television display devices that do not have a television tuner and are not sold in a modular form.
- (c) Front or rear projection display devices.

This Standard does not specify electrical safety requirements.

Appliances sold in a modular form are 'television sets' for the purpose of this Standard and are subject to the MEPS and labelling requirements, e.g. display devices and an external tuner.

Displays or monitors that incorporate an inbuilt tuner are 'television sets' for the purposes of this Standard and are subject to the MEPS and labelling requirements.

**1.3 APPLICATION**

This Standard shall be read in conjunction with AS/NZS 62087.1.

Televisions require energy efficiency registration if they are:

- (a) Directly connected to 230 V or 240 V.
- (b) Connected to 230 V or 240 V via a power supply permanently connected to the television (including a power supply within the television as a component and so the user only sees a 230 V a.c. or 240 V a.c. supply connection).
- (c) Connected to 230 V or 240 V via an external power supply that can be disconnected from the television and the television can be operated via the EPS without batteries (i.e. the EPS is not specifically for charging batteries).

Televisions connected via an external power supply that can be disconnected from the television, and that power supply is supplied with the television, shall be tested with the external power supply supplied with the television. All energy measurements shall be taken with the external power supply energy consumption included.