

Australian/New Zealand Standard™

**Methods of measurement for the power
consumption of audio, video and related
equipment**

AS/NZS 62087:2004

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 26 March 2004 and on behalf of the Council of Standards New Zealand on 2 April 2004. It was published on 12 May 2004.

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PREFACE

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

The objective of this Standard is to provide uniform methods of measuring power consumption of audio, video and related equipment. This Standard also defines different modes of operation for equipment so that power consumption, when operating in a specific mode, can be measured.

This Standard is technically identical with, and has been reproduced from, IEC 62087:2002, *Methods of measurement for the power consumption of audio, video and related equipment*.

Variations to IEC 62087:2002 are indicated at the appropriate places throughout this standard. Strikethrough (~~example~~) identifies IEC text, tables and figures which, for the purposes of this Australian/New Zealand Standard, are deleted. Where text, tables or figures are added, each is set in its proper place and identified by shading (example). Added figures are not themselves shaded, but are identified by a shaded border.

Notes have been added to the text to clarify how this Standard is to be used in Australia and New Zealand. AS/NZS 62301, *Household and electrical appliances—Measurement of standby power*, provides guidance on testing equipment and procedures.

Annex A is not applicable in Australia and New Zealand.

For information on verification procedures in Australia and New Zealand, refer to the Administrative Guidelines found on www.energyrating.gov.au.

As this Standard is reproduced from an International Standard, the following applies:

- (a) Its number does not appear on each page of text and its identity is shown only on the cover and title page.
- (b) In the source text ‘this international standard’ should read ‘this Australian/New Zealand Standard’.
- (c) A full point should be substituted for a comma when referring to a decimal marker.

In this Standard, the following print types are used:

- requirements proper: in arial type;
- explanatory matter: in smaller arial type.

The terms ‘informative’ is used to define the application of the annex to which it applies. An informative annex is only for information and guidance.

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Any IEC table, figure or passage of the text that is struck-through is not part of this Standard. Any Australian/New Zealand table, figure or passage of the text that is added (and identified by shading) is part of this Standard.

1 Scope

This International Standard specifies methods of measurement for the power consumption of TV receivers, VCRs, Set Top Boxes (STBs), audio equipment and multi-function equipment for consumer use.

Moreover the different modes of operation which are relevant for the power consumption are defined.

The methods of measurement are only applicable for equipment which can be connected to the mains.

The measuring conditions in this standard represent the normal use of the equipment and may differ from specific conditions, for example as specified in safety standards.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 50049-1, *Domestic and Similar Electronic Equipment Interconnection Requirements: Peritelevision Connector*

IEC 61938:1996, *Audio, video and audiovisual systems – Interconnections and matching values – Preferred matching values of analogue signals*

IEC 60107-1:1997, *Methods of measurement on receivers for television broadcast transmissions – Part 1: General conditions – Measurements at radio and video frequencies*

3 Terms, definitions and abbreviations**3.1 Definitions**

For the purposes of this International Standard, the following definitions apply.

3.1.1**television receiver (TV)**

appliance for the reception of television broadcast and similar services for terrestrial, cable and satellite transmission of analogue or digital signals