



Greenhouse and Energy Minimum Standards (Digital Television Set-top Boxes) Determination 2012¹

Greenhouse and Energy Minimum Standards Act 2012

I, MARK DREYFUS, Parliamentary Secretary for Climate Change and Energy Efficiency, make this Determination under section 23 of the *Greenhouse and Energy Minimum Standards Act 2012*.

Dated 25 October 2012

MARK DREYFUS

Parliamentary Secretary for Climate Change and Energy Efficiency

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1 Name of Determination

This Determination is the *Greenhouse and Energy Minimum Standards (Digital Television Set-top Boxes) Determination 2012*.

2 Commencement

This Determination comes into force on the day after it is registered.

3 Definitions

In this Determination:

Act means the *Greenhouse and Energy Minimum Standards Act 2012*.

AS/NZS 62087.1:2010 means *Australian/New Zealand Standard 62087.1:2010 Power consumption of audio, video and related equipment, Part 1: Methods of measurement*, as it existed on the day this Determination came into force.

Note: AS/NZS 62087.1:2010 is available from Standards Australia Limited.

AS/NZS 62087.2.1:2008 means *Australian/New Zealand Standard 62087.2.1:2008 Power consumption of audio, video and related equipment, Part 2.1: Minimum energy performance standards (MEPS) requirements for digital television set-top boxes*, as it existed on the day this Determination came into force.

Note 1: AS/NZS 62087.2.1:2008 is available from Standards Australia Limited.

Note 2: AS/NZS 62087.2.1:2008 includes all amendments up to and including AS/NZS 62087.2.1:2008 /Amdt: 2 made on 23 February 2010.

Australian/New Zealand Standard means a standard that is jointly published by Standards Australia Limited and Standards New Zealand, is applicable in both countries and denoted by the letters “AS/NZS” and identifying numbers and/or letters.

Australian Standard means a standard that is published by Standards Australia Limited denoted by the letters “AS” and identifying numbers and/or letters.

digital television set-top box means a set top box that is connected to 230 volts or 240 volts mains power, either:

- (a) directly;
- (b) via a permanently connected power supply; or
- (c) via an external power supply that can be disconnected, and can operate as a:
 - (d) DTV STB—Free-to-air (FTA);
 - (e) DTV STB—Subscription TV (STV) (Cable); or
 - (f) DTV STB—Subscription TV (STV) (Satellite).

DTV STB—Free-to-air (FTA) means a set top box that is designed to receive and decode free to air (FTA) terrestrial digital television broadcast signals for use by a video display device or a recording device.

Note: This is the same meaning as in subclause 1.5.3 of AS/NZS 62087.2.1:2008.

DTV STB—Subscription TV (STV) (Cable) means a set top box that is designed to receive, decode and descramble digital television broadcast signals from a cable source for use by a video display device or a recording device.

Note 1: This is the same meaning as in subclause 1.5.4 of AS/NZS 62087.2.1:2008.

Note 2: Products intended to receive and decode free to air (FTA) digital television broadcast signals from a cable source are included in this definition

DTV STB—Subscription TV (STV) (Satellite) means a set top box that is designed to receive, decode and descramble digital television broadcast signals from satellite source for use by a video display device or a recording device.

Note 1: This is the same meaning as in subclause 1.5.4 of AS/NZS 62087.2.1:2008.

Note 2: Products intended to receive and decode free to air (FTA) digital television broadcast signals from a cable source are included in this definition.

IEC Standard means a standard that is published by, or on behalf of, the International Electrotechnical Commission.

set-top box (STB) means an appliance, which is not part of a television, that is designed for the reception of broadcast or network signals for display on a television or use by a recording device.

standard means an Australian Standard, an Australian/New Zealand Standard, an IEC Standard or any other equivalent document.

television means an appliance for the display and possible reception of television broadcast and similar services for terrestrial, cable, satellite and broadband network transmission of analogue and/or digital signals.

Note: This is the same meaning as in subclause 3.1.12 of AS/NZS 62087.1:2010.

Note: Several other words and expressions used in this Determination have the meaning given by section 5 of the Act. For example:

- category A product
- covered by
- family of models
- GEMS
- GEMS labelling requirements
- GEMS level requirements
- model
- product classes

4 Interpretation

Applicable definitions of terms or phrases

- (1) If a term or phrase is not defined under the Act, the Regulations to the Act or in this Determination, but the term is defined in a standard mentioned specifically in section 3 of this Determination, the term or phrase is to be read for the purposes of this Determination as having the meaning of the term under the relevant standard.

Note: Notwithstanding this, for convenience to users, some of the key terms for ascertaining if a product is covered by this Determination are defined in this Determination.

Applicable version of documents incorporated into standards

- (2) For the purposes of this Determination the applicable version of any document, including a standard, that:
 - (a) is referred to in a standard under the heading 'Referenced Documents', or under an equivalent heading in a standard; and
 - (b) must be applied to give effect to this Determination or a standard referred to in this Determination,

is the version of the document, including a standard, that existed at the date this Determination came into force.

Note: For example clause 2.1 of AS/NZS 62087.2.1:2008 provides that for the purposes of MEPS assessment the digital television set-top box must be tested in accordance with AS/NZS 62087.1:2010. The applicable version of AS/NZS 62087.1:2010 is the version that existed at the date this Determination came into force.

5 Specified product classes covered by this Determination

- (1) This Determination applies to digital television set-top boxes (DTV STB) in the product classes set out in subsection (2).
- (2) The product classes are as follows:

Product class	Products covered by class
1	DTV STB—Free-to-air (FTA) with standard definition decoding
2	DTV STB—Free-to-air (FTA) with high definition decoding
3	DTV STB—Subscription TV (Cable)
4	DTV STB—Subscription TV (Satellite)

Note 1: This subsection reflects the scope specified in clause 1.1 of AS/NZS 62087.2.1:2008 and clause 1 of AS/NZS 62087.1:2010.

Note 2: This subsection specifies products that are covered by the Determination. See subsection (3) for products that are not covered.

- (3) For subsection 23 (2) of the Act, this Determination does not cover:
- (a) a digital television set top box that is integrated with other equipment, for example a digital television set top box that is an integral part of a digital recorder or DVD player; or
 - (b) a digital television set top box designed to receive television signals via broadband internet services.
- (4) In this section:

high definition decoding (HD) means the decoding of video transport streams that are Motion Picture Experts Group 2 (MPEG2) or Main Profile at High Level (MP@HL).

Note 1: This is the same meaning as in subclause 1.5.5 of AS/NZS 62087.2.1:2008.

Note 2: AS 4933.1-2010 sets minimum requirements for high definition decoding ability for set-top boxes.

standard definition decoding (SD) means the decoding of video transport streams that are MPEG2 or MP@ML.

Note 1: This is the same meaning as in subclause 1.5.13 of AS/NZS 62087.2.1:2008

Note 2: AS 4933.1-2010 sets minimum requirements for standard definition decoding ability for set-top boxes.

6 GEMS level requirements

Energy use and greenhouse gas production

- (1) For paragraphs 24 (1) (a) and 25 (a) of the Act, the specified energy use requirements, when measured in accordance with AS/NZS 62087.1:2010, are as follows:

- (a) for products in product classes 1 and 2—the requirements to meet the passive standby, active standby and on mode maximum platform allowances, and maximum power level limits, as specified in section 4 of AS/NZS 62087.2.1:2008.

Note: This is the same requirement as clause 2.1 (a) of AS/NZS 62087.2.1:2008 but it is measured in accordance with AS/NZS 62087.1:2010 not AS/NZS 62087:2004.

- (b) for products in product classes 3 and 4—the requirements to meet the active standby maximum platform allowances and maximum power level limits, as specified in section 5 of AS/NZS 62087.2.1:2008.

Note: This is the same requirement as clause 2.1 (b) of AS/NZS 62087.2.1:2008 but it is measured in accordance with AS/NZS 62087.1:2010 not AS/NZS 62087:2004.

Conducting tests

- (2) Subject to subsection 6 (3) of this Determination, for paragraphs 24 (1) (a) and 25 (b) of the Act, the specified requirements for conducting tests for the products in product classes 1 to 4 are as follows:
 - (a) taking the maximum power allowance (MPA) according to features included in the applicable basic platform shown in Table 1 of section 2 of AS/NZS 62087.2.1:2008, adding the additional features allowance (AFA) as specified in Table 4 of section 5 of AS/NZS 62087.2.1:2008 (if applicable) and ensuring that the total of MPA plus AFA is not greater than the maximum power level (MPL); and
 - (b) the requirements mentioned in clause 4.2 of AS/NZS 62087.2.1:2008.
- (3) For subsection 6 (2) of this Determination, for digital television set-top boxes that are powered by an external power supply that can be disconnected from the set-top box all energy measurements are to include the energy consumption of the external power supply, as follows:
 - (a) if the external power supply is supplied with the set-top box—the set-top box is to be tested with that external power supply; and
 - (b) if an external power supply is not supplied with the set top box—the set-top box is to be tested with an external power supply of external power supply of Energy Performance Mark III within the meaning of that term in AS/NZS 4665.1:2005.

7 GEMS labelling requirements

There are no GEMS labelling requirements for products covered by this Determination.

8 Other GEMS requirements

High efficiency level

- (1) For subsection 24 (2) and paragraph 27 (1) (a), the specified requirements for products covered by this Determination to meet a high efficiency level are that they meet:
 - (a) all of the relevant requirements of subsection 6 (1) of this Determination; and
 - (b) the requirements mentioned in section 3 of AS/NZS 62087.2.1:2008.

Note: This subsection specifies the requirements for a product to be designated as 'high efficiency'.

Conducting tests

- (2) For subsection 24 (2) and paragraph 27 (1) (d) of the Act, the specified requirements for conducting tests in relation to paragraph 27 (1) (a), for products covered by this Determination are the same as those mentioned in subsections 6 (2) and 6 (3) of this Determination.

9 Families of models

- (1) For section 28 of the Act, subject to subsection (2) below the specified circumstances in which 2 or more models from a single product class covered by this Determination are in the same family of models, are when the models:
- (a) rely on the same test report that sets out the results of testing conducted in accordance with section 6 of this Determination;
 - (b) have the same physical characteristics that are relevant to complying with sections 6 and 7 of this Determination; and
 - (c) have the same energy performance characteristics that are relevant to complying with sections 6 and 7 of this Determination.
- (2) For subsection (1), a model cannot be a member of a family of models if its inclusion in that family would lead to the family consisting of more than 2 models.

10 Product categories

For section 29 of the Act, the products covered by this Determination are category A products.

Note

1. All legislative instruments and compilations are registered on the Federal Register of Legislative Instruments kept under the *Legislative Instruments Act 2003*. See <http://www.frli.gov.au>