

Australian/New Zealand Standard™

**Information technology equipment—  
Energy performance of computers**

**Part 2: Minimum energy performance  
standards (MEPS) for computers**



## **AS/NZS 5813.2:2012**

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 25 June 2012 and on behalf of the Council of Standards New Zealand on 26 June 2012.

This Standard was published on 17 July 2012.

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## PREFACE

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

*This Standard incorporates Amendment No. 1 (March 2013). The changes required by the Amendment 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 computers with minimum energy performance standard (MEPS) requirements.

This Standard was prepared in response to the publication of a plan for the regulation of computers under the Equipment Energy Efficiency Program (E3) in 2004. This Standard draws upon the test method and Typical Energy Consumption calculations or maximum power allowances by operational mode specified in the ENERGY STAR® Program Requirements for Computers: Version 5.2 (ENERGY STAR® V5.2 Computer Specification) published by the United States' Environmental Protection Agency (EPA) in 2010. This Standard also draws upon definitions and terms in International Electrotechnical Commission (IEC) draft standard 62623-post CD Rev Nov 2. This Standard is based on but not equivalent to the test and calculation methods specified in the ENERGY STAR® V5.2 Computer Specification and the IEC draft standard 62623-post CD Rev Nov 2.

This series consists of two parts. These are:

### AS/NZS

- 5813 Information technology equipment—Energy performance of computers
- 5813.1 Part 1: Methods of measurement of energy performance
- 5813.2 Part 2: Minimum energy performance standards (MEPS) for computers (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 for information and guidance.

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## FOREWORD

Regulatory authorities have advised that it is intended to mandate this Standard in regulations in Australia and New Zealand no earlier than 1 October 2012.

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 2012, 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.

## STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

**Australian/New Zealand Standard****Information technology equipment—Energy performance of computers****Part 2: Minimum energy performance standards (MEPS) for computers**

## SECTION 1 SCOPE AND GENERAL

**1.1 SCOPE**

This Standard specifies the minimum energy performance standard (MEPS) requirements for computers as defined in AS/NZS 5813.1.

This Standard also specifies the following:

- (a) Classification of computers into categories associated with different MEPS requirements.
- (b) Classification of discrete graphics processing units.
- (c) Typical energy consumption (TEC) calculation methods for desktop, integrated and notebook computers.
- (d) Definition of base computer configurations and additional TEC allowances for non-base configurations.
- (e) Maximum power allowances by operational mode for small-scale servers.
- (f) Minimum power supply efficiency levels.
- (g) Maximum times for power management settings.
- (h) Information required for registration of computers for MEPS.

The scope includes computers supplied with operating systems, such as FreeDOS and Linux, that do not include the ability to activate computer and computer monitor sleep modes.

**1.2 EXCLUSIONS**

This Standard does not apply to hand-held computing devices such as personal digital assistants (PDAs) or palmtop computers, smart phones, game consoles, hand-held gaming devices, thin clients, blade personal computers (blade PCs), slate computers, workstations, mobile workstations, category D – high end computers or computer servers that are not small-scale servers.

**1.3 APPLICATION**

This Standard shall be read in conjunction with AS/NZS 5813.1.