

Irish Standard I.S. EN 62623:2013

Desktop and notebook computers -Measurement of energy consumption (IEC 62623:2012 (EQV))

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Desktop and notebook computers - Measurement of energy consumption

(IEC 62623:2012)

Ordinateurs de bureau et ordinateurs portables -Mesure de la consommation d'énergie (CEI 62623:2012) Desktop- und Notebook-Computer – Messung des Energieverbrauchs (IEC 62623:2012)

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Foreword

The text of document 108/490/FDIS, future edition 1 of IEC 62623, prepared by IEC/TC 108 "Safety of electronic equipment within the field of audio/video, information technology and communication technology" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 62623:2013.

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This standard is based on ECMA-383.

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IEC 62075 NOTE Harmonized as EN 62075.

IEC 62301 NOTE Harmonized as EN 62301.

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Annex ZA (normative)

Normative references to international publications with their corresponding European publications

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

 ${\sf NOTE}$ When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	EN/HD	<u>Year</u>
ECMA-389	-	Procedure for the Registration of Categories for ECMA-383 2nd edition	-	-

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

DESKTOP AND NOTEBOOK COMPUTERS – MEASUREMENT OF ENERGY CONSUMPTION

FOREWORD

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International Standard IEC 62623 has been prepared by IEC technical committee 108: Safety of electronic equipment within the field of audio/video, information technology and communication technology.

This standard is based on ECMA-383.

The text of this standard is based on the following documents:

FDIS	Report on voting
108/490/FDIS	108/500/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

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INTRODUCTION

This standard is based on ECMA-383 and complements the guidance given in IEC 62075. It includes the definitions of energy saving modes and generic energy saving guidance for designers of desktop and notebook computers, by defining a methodology on how to measure the energy consumption of a product whilst providing categorisation criteria that enable energy consumption comparisons of similar products.

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DESKTOP AND NOTEBOOK COMPUTERS – MEASUREMENT OF ENERGY CONSUMPTION

1 Scope

This International Standard covers personal computing products. It applies to desktop and notebook computers as defined in 4.1 that are marketed as final products and that are hereafter referred to as the equipment under test (EUT) or product.

This standard specifies:

- a test procedure to enable the measurement of the power and/or energy consumption in each of the EUT's power modes;
- formulas for calculating the typical energy consumption (TEC) for a given period (normally annual);
- a majority profile that should be used with this standard which enables conversion of average power into energy within the TEC formulas;
- a system of categorisation enabling like for like comparisons of energy consumption between EUTs;
- a pre-defined format for the presentation of results.

This standard does not set any pass/fail criteria for the EUTs. Users of the test results should define such criteria.

2 Normative references

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

ECMA-389, Procedure for the Registration of Categories for ECMA-383 2nd edition

3 Terms, definitions and abbreviations

3.1 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1.1

active workload

simulated amount of productive or operative activity that the EUT performs as represented in the $P_{\rm work}$ (see 4.2.10) and $T_{\rm work}$ (see 3.1.13.6) attributes of the **TEC** equation (see 5.6)

3.1.2

category

grouping of EUT configurations

3.1.3

duty cycle

divisions of time the EUT spends in each of its individual power modes



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