SVENSK STANDARD SS-EN 62087-1



Fastställd 2016-03-16

Utgåva **1** Sida 1 (1+16) Ansvarig kommitté SEK TK 100

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Audio- och videoutrustning – Mätning av elförbrukning – Del 1: Allmänt

Audio, video, and related equipment – Determination of power consumption – Part 1: General

Som svensk standard gäller europastandarden EN 62087-1:2016. Den svenska standarden innehåller den officiella engelska språkversionen av EN 62087-1:2016.

Nationellt förord

Europastandarden EN 62087-1:2016

består av:

- europastandardens ikraftsättningsdokument, utarbetat inom CENELEC
- IEC 62087-1, First edition, 2015 Audio, video, and related equipment Determination of power consumption - Part 1: General

utarbetad inom International Electrotechnical Commission, IEC.

Standarden ersätter tidigare fastställd svensk standard SS-EN 62087, utgåva 3, 2014, som ej gäller fr o m 2019-02-19.

ICS 33.160.10

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Det finns många fördelar med att ha gemensamma tekniska regler för bl a mätning, säkerhet och provning och för utförande, skötsel och dokumentation av elprodukter och elanläggningar.

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EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN 62087-1

February 2016

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Supersedes EN 62087:2012 (partially)

English Version

Audio, video, and related equipment - Determination of power consumption - Part 1: General (IEC 62087-1:2015)

Appareils audio, vidéo et matériel connexe - Détermination de la consommation de puissance - Partie 1: Généralités (IEC 62087-1:2015)

Messverfahren für die Leistungsaufnahme von Audio-, Video- und verwandten Geräten - Teil 1: Allgemeines (IEC 62087-1:2015)

This European Standard was approved by CENELEC on 2015-07-10. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.



European Committee for Electrotechnical Standardization Comité Européen de Normalisation Electrotechnique Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

European foreword

The text of document 100/2466/FDIS, future edition 1 of IEC 62087-1, prepared by Technical Area 12 "AV energy efficiency and smart grid applications" of IEC/TC 100 "Audio, video and multimedia systems and equipment" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 62087-1:2016.

The following dates are fixed:

•	latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	2016-08-19
•	latest date by which the national standards conflicting with the document have to be withdrawn	(dow)	2019-02-19

This document supersedes EN 62087:2012 (partially).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

Endorsement notice

The text of the International Standard IEC 62087-1:2015 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 62087 Series	NOTE	Harmonized as EN 62087 Series.
IEC 62087-2	NOTE	Harmonized as EN 62087-2.
IEC 62087-3	NOTE	Harmonized as EN 62087-3.
IEC 62087-4	NOTE	Harmonized as EN 62087-4.
IEC 62087-5	NOTE	Harmonized as EN 62087-5.
IEC 62087-6	NOTE	Harmonized as EN 62087-6.

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.

NOTE 1 When an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu

<u>Publication</u>	<u>Year</u>	<u>Title</u>	EN/HD	<u>Year</u>
IEC 62301 (mod)	2011	Household electrical appliances - Measurement of standby power	EN 50564	2011
IEC 62542	2013	Environmental standardization for electrical and electronic products and systems - Glossary of terms	EN 62542	2013

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

AUDIO, VIDEO, AND RELATED EQUIPMENT – DETERMINATION OF POWER CONSUMPTION –

Part 1: General

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard IEC 62087-1 has been prepared by technical area 12: AV energy efficiency and smart grid applications, of IEC technical committee 100: Audio, video and multimedia systems and equipment.

This first edition of IEC 62087-1 together with IEC 62087-2 to IEC 62087-6 cancels and replaces IEC 62087:2011 in its entirety. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to Clauses 1 to 5 of IEC 62087:2011.

- It includes new information about operation modes.
- Equipment that includes removable main batteries are now considered.
- Light measuring equipment is now specified.

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

FDIS	Report on voting
100/2466/FDIS	100/2496/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.

A list of all parts in the IEC 62087 series, published under the general title *Audio*, *video*, *and related equipment* – *Determination of power consumption*, can be found on the IEC website.

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

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC website under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

A bilingual version of this publication may be issued at a later date.

IMPORTANT – The 'colour inside' logo on the cover page of this publication indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this document using a colour printer.

INTRODUCTION

The IEC 62087 series specifies the general conditions and procedure for determining the power consumption of audio, video and related equipment. The specific conditions and procedures for specific types of equipment are specified in IEC 62087-3 to IEC 62087-6. IEC 62087-2 specifies signals and media that may be required to determine the power consumption of some types of equipment.

IEC 62087:20081 added methods for determining the On (average) mode power consumption of televisions, based on three video signal sets. These include static, dynamic broadcast-content, and Internet-content signals.

IEC 62087:2011² revised methods for determining the power consumption of set top boxes.

The IEC 62087 series separates IEC 62087 into parts, including this general part which specifies the common conditions and procedures and adds new information about operating modes.

IEC 62087 has been subdivided and currently consists of the following planned or published parts:

- Part 1: General
- Part 2: Signals and media
- Part 3: Television sets
- Part 4: Video recording equipment
- Part 5: Set top boxes
- Part 6: Audio equipment

¹ IEC 62087:2008, Methods of measurement for the power consumption of audio, video and related equipment

² IEC 62087:2011, Methods of measurement for the power consumption of audio, video and related equipment

AUDIO, VIDEO, AND RELATED EQUIPMENT – DETERMINATION OF POWER CONSUMPTION –

Part 1: General

1 Scope

This part of IEC 62087 specifies the general requirements for the determination of power consumption of audio, video, and related equipment. Requirements for specific types of equipment are specified in additional parts of this series of standards and may supersede the requirements specified in this standard.

Moreover, this part of IEC 62087 defines the different modes of operation which are relevant for determining power consumption.

This standard is only applicable for equipment which can be powered by an external power source. Equipment that includes a non-removable main battery is not covered by this standard. Equipment may include any number of auxiliary batteries.

In order to assess compliance of a specific model of equipment with the declared value, an example verification procedure is provided.

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 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.

IEC 62301:2011, Household electrical appliances - Measurement of standby power

IEC 62542:2013, Environmental standardization for electrical and electronic products and systems – Glossary of terms