
Električna in elektronska gospodinjska in pisarniška oprema - Merjenje porabe električne energije v stanju omrežne pripravljenosti na robu omrežja (IEC 63474:2023)

Electrical and electronic household and office equipment - Measurement of networked standby power consumption of edge equipment (IEC 63474:2023)

Elektrische und elektronische Haushalts- und Bürogeräte - Messung der Leistungsaufnahme im vernetzten Bereitschaftsbetrieb von Geräten am Netzwerkrand (IEC 63474:2023)

Appareils électriques et électroniques pour application domestique et équipement de bureau - Mesurage de la consommation d'énergie en veille avec maintien de la connexion au réseau des équipements de périphérie (IEC 63474:2023)

<https://standards.iteh.ai/catalog/standards/sist/007d4fe3-f7b6-47a5-b4c4-8236cc65ec3b/sist-en-iec-63474-2024>

Ta slovenski standard je istoveten z: EN IEC 63474:2023

ICS:

17.220.20	Merjenje električnih in magnetnih veličin	Measurement of electrical and magnetic quantities
33.160.01	Avdio, video in avdiovizualni sistemi na splošno	Audio, video and audiovisual systems in general
35.020	Informacijska tehnika in tehnologija na splošno	Information technology (IT) in general
97.030	Električni aparati za dom na splošno	Domestic electrical appliances in general

SIST EN IEC 63474:2024**en,fr,de**

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN IEC 63474

July 2023

ICS 35.020

English Version

Electrical and electronic household and office equipment -
Measurement of networked standby power consumption of edge
equipment
(IEC 63474:2023)

Appareils électriques et électroniques pour application
domestique et équipement de bureau - Mesurage de la
consommation d'énergie en veille avec maintien de la
connexion au réseau des équipements de périphérie
(IEC 63474:2023)

Elektrische und elektronische Haushalts- und Bürogeräte -
Messung der Leistungsaufnahme im vernetzten
Bereitschaftsbetrieb von Geräten am Netzwerkrand
(IEC 63474:2023)

This European Standard was approved by CENELEC on 2023-06-27. 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, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

<https://standards.iteh.ai/catalog/standards/sist/007d4fe3-f7b6-47a5-b4c4-8236cc65ec3b/sist-en-iec-63474-2024>



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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

EN IEC 63474:2023 (E)

European foreword

The text of document 100/3836/CDV, future edition 1 of IEC 63474, prepared by IEC/TC 100 "Audio, video and multimedia systems and equipment" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 63474:2023.

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) 2024-03-27
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2026-06-27

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

Any feedback and questions on this document should be directed to the users' national committee. A complete listing of these bodies can be found on the CENELEC website.

Endorsement notice

The text of the International Standard IEC 63474:2023 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following note has to be added for the standard indicated:

IEC 62301 NOTE Approved as EN 50564

[SIST EN IEC 63474:2024](https://standards.iteh.ai/catalog/standards/sist/007d4fe3-f7b6-47a5-b4c4-8236cc65ec3b/sist-en-iec-63474-2024)

<https://standards.iteh.ai/catalog/standards/sist/007d4fe3-f7b6-47a5-b4c4-8236cc65ec3b/sist-en-iec-63474-2024>

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

NOTE 1 Where 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.cencenelec.eu.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 62301	2011	Electrical and electronic household and office equipment - Measurement of low power consumption	EN 50564	2011

iTeh Standards
(<https://standards.iteh.ai>)
Document Preview

[SIST EN IEC 63474:2024](https://standards.iteh.ai/catalog/standards/sist/007d4fe3-f7b6-47a5-b4c4-8236cc65ec3b/sist-en-iec-63474-2024)

<https://standards.iteh.ai/catalog/standards/sist/007d4fe3-f7b6-47a5-b4c4-8236cc65ec3b/sist-en-iec-63474-2024>



IEC 63474

Edition 1.0 2023-05

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Electrical and electronic household and office equipment – Measurement of networked standby power consumption of edge equipment

Appareils électriques et électroniques pour application domestique et équipement de bureau – Mesurage de la consommation d'énergie en veille avec maintien de la connexion au réseau des équipements de périphérie

[SIST EN IEC 63474:2024](https://standards.iteh.ai/catalog/standards/sist/007d4fe3-f7b6-47a5-b4c4-8236cc65ec3b/sist-en-iec-63474-2024)

<https://standards.iteh.ai/catalog/standards/sist/007d4fe3-f7b6-47a5-b4c4-8236cc65ec3b/sist-en-iec-63474-2024>

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

COMMISSION
ELECTROTECHNIQUE
INTERNATIONALE

ICS 35.020

ISBN 978-2-8322-7029-5

**Warning! Make sure that you obtained this publication from an authorized distributor.
Attention! Veuillez vous assurer que vous avez obtenu cette publication via un distributeur agréé.**

CONTENTS

FOREWORD.....	4
INTRODUCTION.....	6
1 Scope.....	7
2 Normative references	7
3 Terms, definitions and abbreviations	7
3.1 Terms and definitions.....	7
3.2 Abbreviated terms.....	9
4 Information required for testing purposes.....	9
4.1 Information about network port(s)	9
4.2 Power management function - periods and conditions.....	10
4.3 Activation and deactivation of wireless network connections	10
5 Measurement conditions.....	10
5.1 Common requirements.....	10
5.2 Test room	11
5.3 Power supply	11
5.4 Power measuring instruments	11
5.5 Configuration of network ports	11
5.6 Measurement uncertainty.....	12
6 Measurement procedure	12
6.1 General.....	12
6.2 Wireless network connection management.....	12
6.2.1 Test sequence.....	12
6.2.2 Verifying that wireless connections are deactivated	12
6.2.3 Verifying that a wireless network connection is active.....	12
6.3 Preparation of the EUT and general testing aspects.....	12
6.4 Power management, reactivation, and networked standby power consumption	12
6.5 Measurement of standby power consumption with all network ports disconnected	13
6.6 Measurement of networked standby power consumption with all network ports connected	14
7 Test report.....	14
7.1 Test and laboratory details.....	14
7.2 Details of product under test	14
7.3 Test parameters and network configuration.....	14
7.4 Measured and documented data	15
Annex A (normative) Test conditions – Connection types and test conditions.....	16
Annex B (informative) Additional scope considerations – Equipment classification and examples	17
Annex C (informative) General information on network technologies and network configurations with respect to power consumption – Examples of network port configurations	19
Annex D (informative) Information to be provided to the user and other interested parties	20
D.1 Information available online	20
D.2 Information available in the user manual.....	20
Annex E (informative) Example of a test report template.....	21

Bibliography.....	23
Table A.1 – Test conditions by type of connection.....	16
Table B.1 – Classification of networked equipment	17
Table B.2 – Examples of equipment definition and its classification	18
Table C.1 – Examples of technologies considered for networked standby	19

iTeh Standards
(<https://standards.iteh.ai>)
Document Preview

[SIST EN IEC 63474:2024](https://standards.iteh.ai/catalog/standards/sist/007d4fe3-f7b6-47a5-b4c4-8236cc65ec3b/sist-en-iec-63474-2024)

<https://standards.iteh.ai/catalog/standards/sist/007d4fe3-f7b6-47a5-b4c4-8236cc65ec3b/sist-en-iec-63474-2024>

INTERNATIONAL ELECTROTECHNICAL COMMISSION

**ELECTRICAL AND ELECTRONIC HOUSEHOLD AND OFFICE EQUIPMENT –
MEASUREMENT OF NETWORKED STANDBY POWER
CONSUMPTION OF EDGE EQUIPMENT**

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.
- 2) The formal decisions or agreements of IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested IEC National Committees.
- 3) IEC Publications have the form of recommendations for international use and are accepted by IEC National Committees in that sense. While all reasonable efforts are made to ensure that the technical content of IEC Publications is accurate, IEC cannot be held responsible for the way in which they are used or for any misinterpretation by any end user.
- 4) In order to promote international uniformity, IEC National Committees undertake to apply IEC Publications transparently to the maximum extent possible in their national and regional publications. Any divergence between any IEC Publication and the corresponding national or regional publication shall be clearly indicated in the latter.
- 5) IEC itself does not provide any attestation of conformity. Independent certification bodies provide conformity assessment services and, in some areas, access to IEC marks of conformity. IEC is not responsible for any services carried out by independent certification bodies.
- 6) All users should ensure that they have the latest edition of this publication.
- 7) No liability shall attach to IEC or its directors, employees, servants or agents including individual experts and members of its technical committees and IEC National Committees for any personal injury, property damage or other damage of any nature whatsoever, whether direct or indirect, or for costs (including legal fees) and expenses arising out of the publication, use of, or reliance upon, this IEC Publication or any other IEC Publications.
- 8) Attention is drawn to the Normative references cited in this publication. Use of the referenced publications is indispensable for the correct application of this publication.
- 9) IEC draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). IEC takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, IEC had received notice of (a) patent(s), which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at <https://patents.iec.ch>. IEC shall not be held responsible for identifying any or all such patent rights.

IEC 63474 has been prepared by technical area 19: Environmental and energy aspects for multimedia systems and equipment, of IEC technical committee 100: Audio, video and multimedia systems and equipment. It is an International Standard.

The text of this document is based on EN 50643:2018. It was submitted to the National Committees for voting under the Fast Track Procedure.

The text of this International Standard is based on the following documents:

Draft	Report on voting
100/3836/CDV	100/3898/RVC

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