BS EN IEC 63296-2:2024

BSI Standards Publication

Portable multimedia equipment — Determination of battery duration

Part 2: Headphones and earphones with active noise-cancelling functions

Documents
Document Sharing Hub

Full document details: BS EN IEC 63296-2:2024

National foreword

This British Standard is the UK implementation of EN IEC 63296-2:2024. It is identical to IEC 63296-2:2023.

The UK participation in its preparation was entrusted to Technical Committee EPL/100, Audio-visual equipment.

A list of organizations represented on this committee can be obtained on request to its committee manager.

Contractual and legal considerations

This publication has been prepared in good faith, however no representation, warranty, assurance or undertaking (express or implied) is or will be made, and no responsibility or liability is or will be accepted by BSI in relation to the adequacy, accuracy, completeness or reasonableness of this publication. All and any such responsibility and liability is expressly disclaimed to the full extent permitted by the law.

This publication is provided as is, and is to be used at the recipient's own risk.

The recipient is advised to consider seeking professional guidance with respect to its use of this publication.

This publication is not intended to constitute a contract. Users are responsible for its correct application.

© The British Standards Institution 2024
Published by BSI Standards Limited 2024

ISBN 978 0 539 21156 6

ICS 33.160.50

Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 January 2024.

Amendments/corrigenda issued since publication

Date	Text affected

Documents
Document Sharing Hub

Full document details: BS EN IEC 63296-2:2024

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN IEC 63296-2

January 2024

ICS 33.160.50

English Version

Portable multimedia equipment - Determination of battery duration - Part 2: Headphones and earphones with active noise-cancelling functions (IEC 63296-2:2023)

Matériel multimédia portable - Détermination de la durée des batteries - Partie 2: Casques et écouteurs avec fonctions de réduction de bruit active (IEC 63296-2:2023)

Tragbare Multimediageräte und -systeme - Bestimmung der Batterielebensdauer - Teil 2: Kopfhörer und Ohrhörer mit aktiven Funktionen zur Geräuschunterdrückung (IEC 63296-2:2023)

This European Standard was approved by CENELEC on 2024-01-12. 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.

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

© 2024 CENELEC All rights of exploitation in any form and by any means reserved worldwide for CENELEC Members.

Ref. No. EN IEC 63296-2:2024 E

AVA Documents Document Sharing Hub

Full document details: BS EN IEC 63296-2:2024

European foreword

The text of document 100/4049/FDIS, future edition 1 of IEC 63296-2, prepared by NA "NA" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 63296-2:2024.

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) 2024-10-12
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2027-01-12

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 63296-2:2023 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 standard indicated:

IEC 60068-1:2013 NOTE Approved as EN 60068-1:2014 (not modified)

IEC 62087-1:2015 NOTE Approved as EN 62087-1:2016 (not modified)

Documents
Document Sharing Hub

Full document details: BS EN IEC 63296-2:2024

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.

Publication	Year	Title	EN/HD	Year
IEC 60268-1	-	Sound system equipment. Part 1: General	-	-
IEC 60268-7	2010	Sound system equipment - Part 7: Headphones and earphones	EN 60268-7	2011
IEC 60268-24	2023	Sound system equipment - Part 24: Headphones and earphones - Active acoustic noise cancelling characteristics	EN IEC 60268-24	2024
IEC 60318-4	-	Electroacoustics - Simulators of human head and ear - Part 4: Occluded-ear simulator for the measurement of earphones coupled to the ear by means of ear inserts	EN 60318-4	-
IEC 60318-7	-	Electroacoustics - Simulators of human head and ear - Part 7: Head and torso simulator for the measurement of sound sources close to the ear	EN IEC 60318-7	-

Documents
Document Sharing Hub

Full document details: BS EN IEC 63296-2:2024

CONTENTS

FOREWORD 3
INTRODUCTION 5
1 Scope 6
2 Normative references 6
3 Terms and definitions 7
4 Measuring method of battery duration 8
4.1 General 8
4.2 Test signal 8
4.3 Ambient noise signal 8
4.4 Standard conditions for measurement 9
4.4.1 General conditions for measurement 9
4.4.2 Test site 9
4.5 Test equipment 9
4.6 Preparation of headphones 9
4.6.1 Battery to be measured 9
4.6.2 Input setting 9
4.7 Test procedure for measurement of battery duration 10
4.7.1 Adjustment of test signal level 10
4.7.2 Adjustment of loudness of ambient noise signal 10
4.7.3 Measurement of battery duration 10
5 Characteristics to be specified 10
Annex A (informative) Verification procedure 11
A.1 General 11
A.2 Verification procedure 11
Bibliography 12

Figure 1 – Example of a battery duration measurement system 9
Figure A.1 – Flowchart, verification procedure 11

Documents
Document Sharing Hub
Full document details: BS EN IEC 63296-2:2024