

<b>STN</b>	<b>Prenosné multimediálne zariadenia Stanovenie výdrže batérie Časť 2: Slúchadlá s aktívnym potlačením hluku</b>	<b>STN EN IEC 63296-2</b>  36 8305
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Portable multimedia equipment - Determination of battery duration - Part 2: Headphones and earphones with active noise-cancelling functions

Táto norma obsahuje anglickú verziu európskej normy.  
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 03/24

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EUROPEAN STANDARD

**EN IEC 63296-2**

NORME EUROPÉENNE

EUROPÄISCHE NORM

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)

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**EN IEC 63296-2:2024 (E)****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
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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)

## Annex ZA (normative)

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

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<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
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	-



IEC 63296-2

Edition 1.0 2023-12

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

**Portable multimedia equipment – Determination of battery duration –  
Part 2: Headphones and earphones with active noise-cancelling functions**

**Matériel multimédia portable – Détermination de la durée des batteries –  
Partie 2: Casques et écouteurs avec fonctions de réduction de bruit active**





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IEC 63296-2

Edition 1.0 2023-12

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

**Matériel multimédia portable – Détermination de la durée des batteries –  
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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**PORTABLE MULTIMEDIA EQUIPMENT –  
DETERMINATION OF BATTERY DURATION –****Part 2: Headphones and earphones with  
active noise-cancelling functions**

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IEC 63296-2 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 International Standard is based on the following documents:

Draft	Report on voting
100/4049/FDIS	100/4080/RVD

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

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at [www.iec.ch/members\\_experts/refdocs](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/publications](http://www.iec.ch/publications).

A list of all parts in the IEC 63296 series, published under the general title *Portable multimedia equipment – Determination of battery duration*, can be found on the IEC website.

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- reconfirmed,
- withdrawn, or
- revised.

## INTRODUCTION

This document specifies a measurement method for battery duration on active acoustic noise-cancelling headphones and earphones. Active acoustic noise-cancelling headphones and earphones are commonly used to reduce the ambient acoustic noise to which the ear is exposed. However, there is no International Standard for a battery duration measurement method of active acoustic noise-cancelling headphones and earphones. Until now, each company has evaluated the performance using its own method, and the evaluation values are not uniform.

This document for the measurement of the battery duration and the notation of measured value allows the comparison of performance data obtained in different locations.

The IEC 63296 series currently consists of the following parts:

- Part 1: Powered loudspeaker equipment
- Part 2: Headphones and earphones with active noise-cancelling functions

# PORTABLE MULTIMEDIA EQUIPMENT – DETERMINATION OF BATTERY DURATION –

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

### 1 Scope

This document is applicable to active acoustic noise-cancelling headphones and earphones that have the function of reducing the ambient noise heard by the user by the level of the output sound from the transducer, which is generated by the ambient noise detection microphone and the noise reduction signal processing circuit.

This document covers headphones and earphones to be worn over-the-ear or in-ear, all of which are referred to as "headphones" in this document.

This document specifies the terms and definitions relating to battery duration of this type of headphones and the measurement and evaluation methods.

The noise detection microphones are mounted in the body, on the surface, or on an accessory of the headphones. Signal-processing circuits are analogue and digital electronic circuits.

This document does not deal with equipment intended for hearing protection. It is also not applicable to music players, recorders, etc. that have a noise-cancelling function.

The battery duration measurement methods can be applied to headphones having no active noise-cancelling function.

### 2 Normative references

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IEC 60268-1, *Sound system equipment – Part 1: General*

IEC 60268-7:2010, *Sound system equipment – Part 7: Headphones and earphones*

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