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Portable multimedia equipment - Determination of battery duration - Part 3: Wearable powered loudspeaker equipment

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. 03/26

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EUROPEAN STANDARD

EN IEC 63296-3

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2025

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English Version

**Portable multimedia equipment - Determination of battery
duration - Part 3: Wearable powered loudspeaker equipment
(IEC 63296-3:2025)**

Matériel multimédia portable - Détermination de la durée
des batteries - Partie 3: Haut-parleurs portables alimentés
par batteries
(IEC 63296-3:2025)

Tragbare Multimedia Einrichtungen - Festlegung der
Batterielebensdauer - Teil 3: Tragbare elektrisch
angetriebene Lautsprecher Einrichtungen
(IEC 63296-3:2025)

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EN IEC 63296-3:2025 (E)**European foreword**

The text of document 100/4260/CDV, future edition 1 of IEC 63296-3, prepared by TC 100/Technical Area 19 "Environmental and energy aspects for multimedia systems and equipment" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 63296-3:2025.

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

IEC 60958 (series)	NOTE	Approved as EN IEC 60958 (series)
IEC 63296-2:2023	NOTE	Approved as EN IEC 63296-2:2024 (not modified)

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 60268-1	-	Sound system equipment. Part 1 : General	-	-
IEC 60268-2	-	Sound system equipment. Part 2: Explanation of general terms and calculation methods	-	-
IEC 60268-5	2003	Sound system equipment - Part 5: Loudspeakers	EN 60268-5	2003
+ A1	2007		+ A1	2009
IEC 60268-7	-	Sound system equipment - Part 7: Headphones and earphones	EN IEC 60268-7	-
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 61260-1	-	Electroacoustics - Octave-band and fractional-octave-band filters - Part 1: Specifications	EN 61260-1	-
IEC 61672-1	-	Electroacoustics - Sound level meters - Part 1: Specifications	EN 61672-1	-
IEC 61938	-	Multimedia systems - Guide to the recommended characteristics of analogue interfaces to achieve interoperability	EN IEC 61938	-



IEC 63296-3

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INTERNATIONAL STANDARD

**Portable multimedia equipment - Determination of battery duration -
Part 3: Wearable powered loudspeaker equipment**



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**Portable multimedia equipment -
Determination of battery duration -
Part 3: Wearable powered loudspeaker equipment**

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IEC 63296-3 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.

Japan Electronics and Information Technology Industries Association (JEITA): CP-2907 'Methods of Measurement for Battery Duration on Wearable Speaker Equipment' has served as a basis for the development of this document.

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

Draft	Report on voting
100/4260/CDV	100/4358/RVC

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.

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.

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. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

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

- reconfirmed,
- withdrawn, or
- revised.

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INTRODUCTION

This document specifies a method of measurement for battery duration of wearable powered loudspeaker equipment. Wearable powered loudspeaker equipment is assumed to be a personal device such as a shoulder-carried powered speaker which is worn near the ear or on the body and its composite device.

This document was developed based on the following specification of the Japan Electronics and Information Technology Industries Association (JEITA): CP-2907 'Methods of Measurement for Battery Duration on Wearable Speaker Equipment'.

The IEC 63296 series on 'Portable multimedia equipment – Determination of battery duration' currently consists of the following:

- IEC 63296-1: Powered loudspeaker equipment
- IEC 63296-2: Headphones and earphones with active noise-cancelling functions
- IEC 63296-3: Wearable powered loudspeaker equipment.

1 Scope

This document specifies the method for measuring the battery duration at a defined sound pressure level for continuous music playback of battery-operated wearable powered loudspeaker equipment. A primary battery or secondary battery can be used as a power source for such a shoulder-carried or body-worn loudspeaker and its composite device. In addition, only equipment that can be placed on or hung from a head and torso simulator (HATS) is covered. Bone conduction speakers are excluded. Portable loudspeaker equipment also supporting video playback as the main function is not covered by this document.

2 Normative references

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.

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

IEC 60268-2, *Sound system equipment - Part 2: Explanation of general terms and calculation methods*

IEC 60268-5:2003, *Sound system equipment - Part 5: Loudspeakers*
IEC 60268-5:2003/AMD1:2007

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

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*

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*

IEC 61260-1, *Electroacoustics - Octave-band and fractional-octave-band filters - Part 1: Specifications*

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