

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Portable multimedia equipment – Determination of battery duration –
Part 1: Powered loudspeaker equipment**

**Matériel multimédia portable – Détermination de la durée des batteries –
Partie 1: Haut-parleurs alimentés par batteries**



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CONTENTS

FOREWORD.....	3
INTRODUCTION.....	5
1 Scope.....	6
2 Normative references	6
3 Terms, definitions and abbreviated terms	6
3.1 Terms and definitions.....	6
3.2 Abbreviated terms.....	7
4 Measurement conditions	8
4.1 General.....	8
4.2 Environmental conditions	8
4.3 Acoustical environment	8
4.4 Input signal	8
4.4.1 Test signal.....	8
4.4.2 Receiver	8
4.4.3 Other digital equipment.....	8
4.5 Sound level meter	8
4.6 Reproduced sound pressure level	8
4.7 Background noise	9
4.8 Measurement accuracy	9
4.9 Battery.....	9
5 Measurement method	9
5.1 General.....	9
5.2 Operating condition.....	10
5.3 Adjustment of controls	10
5.4 Measurement of battery duration	10
5.5 Characteristics to be specified	11
Annex A (informative) Location for sound pressure test	12
A.1 General.....	12
A.2 Example test locations	12
Annex B (informative) Examples of battery duration specifications	14
B.1 General.....	14
B.2 Example 1 of a battery duration specification	14
B.3 Example 2 of a battery duration specification	14
Bibliography.....	15
Figure 1 Connection diagram of equipment.....	9
Figure 2 Order of measurement	10
Figure A.1 – Top view	12
Figure A.2 – Top and front view	13
Figure A.3 – Side view	13

INTERNATIONAL ELECTROTECHNICAL COMMISSION

**PORTABLE MULTIMEDIA EQUIPMENT –
DETERMINATION OF BATTERY DURATION –**

Part 1: Powered loudspeaker equipment

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IEC 63296-1 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
100/3546/CDV	100/3596/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/standardsdev/publications.

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INTRODUCTION

This document specifies methods of measurement for battery duration on powered loudspeaker equipment. The operating time of a battery-powered powered loudspeaker varies greatly depending on the reproduced sound pressure from the loudspeaker. Since the reproduced sound pressure of a powered loudspeaker varies depending on the purpose of use, it is a measurement method that measures the battery operating time at different sound pressures.

IEC 63296 series currently consists of the following planned or published parts:

- Part 1: Powered loudspeaker equipment
- Part 2: Headphones and earphones with active noise-cancelling functions
- Part 3: Personal sound amplification equipment

PORTABLE MULTIMEDIA EQUIPMENT – DETERMINATION OF BATTERY DURATION –

Part 1: Powered loudspeaker equipment

1 Scope

This part of IEC 63296 specifies the methods for measuring the battery duration at defined sound pressure levels for continuous music playback of battery-powered loudspeaker equipment. A primary battery or secondary battery can be used as a power source for the loudspeaker and its composite equipment. In the case of composite equipment, this method for the measurement of battery duration can be applied under the condition of powered loudspeaker playback only.

NOTE Loudspeakers designed for short hearing distances are not within the scope of 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 60268-5:2003, *Sound system equipment – Part 5: Loudspeakers*
IEC 60268-5:2003/AMD1:2007

IEC 61672-1, *Electroacoustics – Sound level meters – Part 1: Specifications*

IEC 61938, *Multimedia systems – Guide to the recommended characteristics of analogue interfaces to achieve interoperability (GMT)*

3 Terms, definitions and abbreviated terms

3.1 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <https://www.iso.org/obp>

3.1.1 battery

power storage equipment that is capable of powering equipment such that the equipment can provide its primary functions

3.1.2 battery duration

time during which the equipment can provide its main function using its built-in power source