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INTERNATIONAL STANDARD

NORME INTERNATIONALE

Audio, video and information technology equipment – Routine electrical safety testing in production

Appareils audio, vidéo et matériel de traitement de l'information – Essais individuels de série, en production, pour la vérification de la sécurité électrique

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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Audio, video and information technology equipment - Routine electrical safety testing in production

FOREWORD

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IEC 62911 has been prepared by IEC technical committee 108: Safety of electronic equipment within the field of audio/video, information technology and communication technology. It is an International Standard.

This second edition cancels and replaces the first edition published in 2016. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

a) this edition aligns with the terminology and requirements of IEC 62368-1:2023;

b) test conditions for DC mains have been added;

c) smaller size technical changes were made.

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

Draft	Report on voting
108/833/FDIS	108/837/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 http://www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at http://www.iec.ch/publications.

In this document, the following print types or formats are used:

– compliance statements and test specifications: in *italic type*.

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- withdrawn, or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.

The content of the corrigendum 1 (2026-06) has been included in this copy.

1 Scope

This International Standard defines routine test (3.16) procedures for use during or after manufacturing of complete equipment, sub-assemblies or components, complying with IEC 62368-1 and powered by an AC mains (3.7) or DC mains (3.7), to detect manufacturing failures and unacceptable tolerances in manufacturing and materials.

NOTE 1 Not all the tests defined in this document are necessarily performed at the end product manufacturing location. The optimal location for the routine tests (3.16) can be defined by the equipment manufacturer and reviewed under the applicable conformity assessment scheme.

NOTE 2 The test procedures in this document are intended to identify production and manufacturing errors. These test procedures are not intended for product development or verification (see IEC 62368-1 [1]).

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 62368-1:2023, *Audio/video, information and communication technology equipment - Part 1: Safety requirements*

IEC 62368-1, *Audio/video, information and communication technology equipment - Part 1: Safety requirements*

Bibliography

[1] IEC 62368-1, *Audio/video, information and communication technology equipment - Part 1: Safety requirements*

[2] IEC 62368-1:2023, *Audio/video, information and communication technology equipment - Part 1: Safety requirements*

[3] IEC 60050-851:2008, *International Electrotechnical Vocabulary (IEV) - Part 851: Electric welding*

[4] IEC 60050-151:2001, *International Electrotechnical Vocabulary (IEV) - Part 151: Electrical and magnetic devices*

[5] IEC 60050-195:2021, *International Electrotechnical Vocabulary (IEV) - Part 195: Earthing and protection against electric shock*

[6] IEC 60664-1:2020, *Insulation coordination for equipment within low-voltage supply systems - Part 1: Principles, requirements and tests*

[7] IEC 60050-411:1996, *International Electrotechnical Vocabulary (IEV) - Part 411: Rotating machinery*

[8] IEC 61180:2016, *High-voltage test techniques for low-voltage equipment - Definitions, test and procedure requirements, test equipment*

[9] IEC 60204-1:2016, *Safety of machinery - Electrical equipment of machines - Part 1: General requirements*

[10] IEC 61010-1:2010, *Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements*

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