

INTERNATIONAL STANDARD

NORME INTERNATIONALE

AMENDMENT 1 AMENDEMENT 1

**Household and similar electrical appliances - Safety -
Part 1: General requirements**

**Appareils électrodomestiques et analogues - Sécurité -
Partie 1 : Exigences générales**

[IEC 60335-1:2020/AMD1:2025](https://standards.iteh.ai/iec/983addad-b459-4b3c-bbcd-dbb4e6424aac/iec-60335-1-2020-amd1-2025)

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

Household and similar electrical appliances - Safety - Part 1: General requirements

AMENDMENT 1

FOREWORD

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Amendment 1 to IEC 60335-1:2020 has been prepared by IEC technical committee 61: Safety of household and similar electrical appliances.

The text of this Amendment is based on the following documents:

Draft	Report on voting
61/7471/FDIS	61/7502/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 Amendment 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. The main document types developed by IEC are described in greater detail at www.iec.ch/publications/.

A list of all parts of the IEC 60335 series, under the general title *Household and similar electrical appliances – Safety*, can be found on the IEC website.

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

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- revised.

Foreword

Replace, in the Note, in the third paragraph, the fourth dashed item with the following:

- 6.1: **Class 0 appliances** are not allowed (Australia, European Union, India, Israel, New Zealand, Norway, Singapore, Switzerland, United Kingdom).
- 6.1: **Class 0I appliances** are not allowed (Australia, European Union, India, Israel, New Zealand, Norway, Singapore, Switzerland, United Kingdom).

1 Scope

Delete, in the last paragraph, the third dashed item.

Add the following dashed item to the last paragraph:

- luminaires (IEC 60598 series).

2 Normative references

Delete the reference to IEC 60065:2014.

Replace the reference for IEC 60085:2007 with the following:

IEC 60085, *Electrical insulation - Thermal evaluation and designation*

Replace the reference for IEC 60112:2003 and the amendment with the following:

IEC 60112:2020, *Method for the determination of the proof and the comparative tracking indices of solid insulating materials*

Replace the text of Footnote 1 with "Void".

Replace IEC 60227 (all parts) and IEC 60227-5:2011 with the following:

IEC 60227-5:2024, *Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V - Part 5: Flexible cables (cords)*

Replace IEC 60245 (all parts) with the following:

IEC 60245-4, Rubber insulated cables - Rated voltages up to and including 450/750 V - Part 4: Cords and flexible cables

Replace IEC 60384-14:2013 and the amendment with the following:

IEC 60384-14:2023, Fixed capacitors for use in electronic equipment - Part 14: Sectional specification - Fixed capacitors for electromagnetic interference suppression and connection to the supply mains

Replace the text of Footnote 3 with "Void".

Replace IEC 60445:2017 with the following:

IEC 60445, Basic and safety principles for man-machine interface, marking and identification - Identification of equipment terminals, conductor terminations and conductors

Replace IEC 60598-1:2014 and the amendment with the following:

IEC 60598-1:2024, Luminaires - Part 1: General requirements and tests

Replace IEC 60664-1:2007 with the following

IEC 60664-1:2020, Insulation coordination for equipment within low-voltage supply systems - Part 1: Principles, requirements and tests
IEC 60664-1:2020/AMD1:2025

Replace the text of Footnote 5 with "Void".

Replace IEC 60695-2-11:2014 with the following:

IEC 60695-2-11:2021, Fire hazard testing - Part 2-11: Glowing/hot-wire based test methods - Glow-wire flammability test method for end products (GWEPT)

Replace IEC 60730-1:2013 and the amendment with the following:

IEC 60730-1:2022, Automatic electrical controls - Part 1: General requirements

Delete IEC 60730-2-8:2018.

Replace IEC 60730-2-9:2015 and the amendment with the following:

IEC 60730-2-9, Automatic electrical controls - Part 2-9: Particular requirements for temperature sensing controls

Replace the text of Footnotes 6 and 7 with "Void".

Add the following new references:

IEC 60747-5-5:2020, Semiconductor devices - Part 5-5: Optoelectronic devices - Photocouplers

IEC 60998-2-1, *Connecting devices for low-voltage circuits for household and similar purposes - Part 2-1: Particular requirements for connecting devices as separate entities with screw-type clamping units*

IEC 60998-2-2, *Connecting devices for low-voltage circuits for household and similar purposes - Part 2-2: Particular requirements for connecting devices as separate entities with screwless-type clamping units*

Replace IEC 61032:1997 with the following:

IEC 61032, *Protection of persons and equipment by enclosures - Probes for verification*

Replace IEC 61558-2-6:2009 and IEC 61558-2-16:2009 and the amendment with the following:

IEC 61558-2-6, *Safety of transformers, reactors, power supply units and combinations thereof - Part 2-6: Particular requirements and tests for safety isolating transformers and power supply units incorporating safety isolating transformers for general applications*

IEC 61558-2-16:2021, *Safety of transformers, reactors, power supply units and combinations thereof - Part 2-16: Particular requirements and tests for switch mode power supply units and transformers for switch mode power supply units for general applications*

Replace the text of Footnote 10 with "Void".

Replace IEC 62133-1:2017 with the following:

IEC 62133-1, *Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications - Part 1: Nickel systems*

Replace IEC 62133-2:2017 with the following and add the following footnote:

IEC 62133-2:2017¹¹, *Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications - Part 2: Lithium systems*
IEC 62133-2:2017/AMD1:2021

¹¹ There exists a consolidated edition 1.1:2021 that includes edition 1 and its Amendment 1.

Replace IEC 62471:2006 with the following:

IEC 62471, *Photobiological safety of lamps and lamp systems*

Add the following new reference:

IEC 62471-7, *Photobiological safety of lamps and lamp systems - Part 7: Light sources and luminaires primarily emitting visible radiation*

Replace IEC 62821 (all parts) with the following:

IEC 62821-3, *Electric cables - Halogen-free, low smoke, thermoplastic insulated and sheathed cables of rated voltages up to and including 450/750 V - Part 3: Flexible cables (cords)*

Add the following new reference:

IEC 63010-1, *Halogen-free thermoplastic insulated and sheathed flexible cables of rated voltages up to and including 300/300 V - Part 1: General requirements and cables*

3 Terms and definitions

3.1.3 Replace, in Note 2 to entry, "transient voltages" with "transient overvoltages".

3.2.2 Replace Note 1 to entry with the following:

Note 1 to entry: In **battery-operated appliances**, if the **battery** is placed in a separate box, a flexible cord connecting the box with the appliance is considered to be an **interconnection cord**. Flexible leads connecting the box with the appliance are considered to be an **interconnection cord**.

3.3.6 Add the following Note to entry:

Note 1 to entry: Optocouplers are not **protective impedances** in the meaning of this standard.

Add the following new terms:

3.8.7

area open to the public

area in which the general public can have access

Note 1 to entry: Examples include customer areas in:

- grocery stores;
- canteens;
- train stations;
- self-service restaurants; and
- town squares and sidewalks/pathways.

IEC 60335-1:2020/AMD1:2025

Note 2 to entry: The general public can include children.

3.9.4

partitioning

software architecture technique used to split the software functionalities into modules with different functions and defined interfaces between those modules

Note 1 to entry: When a software application contains both safety and non-safety modules that share the same component resources, **partitioning** is a method to facilitate the prevention of unintentional software execution or unintentional memory corruption.

3.9.5

software separation

separation between different software functions that can interact with each other through defined data interfaces

Note 1 to entry: **Software separation** can be achieved physically or virtually through proper **partitioning**.

Note 2 to entry: Examples are physically separated microprocessors on independent hardware or one microprocessor with properly separated routines, dedicated memory, timing and error checking, etc.

3.9.6

safety-related software

software that is used to implement safety functions in a safety related system