

# ILNAS

Institut luxembourgeois de la normalisation  
de l'accréditation, de la sécurité et qualité  
des produits et services

**ILNAS-EN 60335-1:2012/A2:2019**

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

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

Sicherheit elektrischer Geräte für den  
Hausgebrauch und ähnliche Zwecke -  
Teil 1: Allgemeine Anforderungen

**08/2019**



## National Foreword

This European Standard EN 60335-1:2012/A2:2019 was adopted as Luxembourgish Standard ILNAS-EN 60335-1:2012/A2:2019.

Every interested party, which is member of an organization based in Luxembourg, can participate for FREE in the development of Luxembourgish (ILNAS), European (CEN, CENELEC) and International (ISO, IEC) standards:

- Participate in the design of standards
- Foresee future developments
- Participate in technical committee meetings

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ICS 13.120; 97.030

English Version

**Household and similar electrical appliances - Safety - Part 1:  
General requirements  
(IEC 60335-1:2010/A2:2016 + COR1:2016)**

Appareils électrodomestiques et analogues - Sécurité -  
Partie 1: Exigences générales  
(IEC 60335-1:2010/A2:2016 + COR1:2016)

Sicherheit elektrischer Geräte für den Hausgebrauch und  
ähnliche Zwecke - Teil 1: Allgemeine Anforderungen  
(IEC 60335-1:2010/A2:2016 + COR1:2016)

This amendment A2 modifies the European Standard EN 60335-1:2012; it was approved by CENELEC on 2018-07-30. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This amendment exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.



European Committee for Electrotechnical Standardization  
Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

## European foreword

This document (EN 60335-1:2012/A2:2019) consists of the text of IEC 60335-1:2010/A2:2016 + COR:2016 prepared by IEC/TC 61 "Safety of household and similar electrical appliances", together with the common modifications prepared by CLC/TC 61 "Safety of household and similar electrical appliances".

The following dates are fixed:

- latest date by which this document has to be (dop) 2020-02-09 implemented at national level by publication of an identical national standard or by endorsement
- latest date by which the national standards (dow) 2021-07-30 conflicting with this document have to be withdrawn

This amendment supplements or modifies the corresponding clauses of EN 60335-1:2012 and its amendments A11:2014, A13:2017, A1:2018 and A14:2019.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

This document has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For the relationship with EU Directive(s) see informative Annexes ZZ.

### Endorsement notice

The text of the International Standard IEC 60335-1:2010/A2:2016 + COR:2016 was approved by CENELEC as a European Standard with agreed common modifications.

## COMMON MODIFICATIONS

### 1 Scope

*Delete the replacement, as this sentence is already in the scope of the EN text.*

### 7 Marking and instructions

**7.10<sup>1</sup>** *Delete the paragraphs starting with “Devices used to start/stop....” until the end of the requirement “.....by vulnerable persons.”. This includes Notes Z1 and Z2.*

**7.12.Z1<sup>2</sup>** *Delete the sub clause.*

**7.14.** *Delete Note Z1.*

### 22 Construction

**22.12** *Delete Note Z1*

### 24 Components

**24.Z1** *Replacement*

Type S2 and S3 capacitors according to EN 60252-1 are not required to undergo the testing as required by 30.2.2 and 30.2.3.1.

### 25 Supply connection and external flexible cords

**25.7<sup>3</sup>** *Delete the existing text starting “Halogen free thermoplastic.....” until “.....designation H07ZZ-F). “*

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<sup>1</sup> The text in the CM to 7.10 is now contained in sub-clause 22.55.

<sup>2</sup> The text of EN 60335-1:2012 + A11:2014 in 7.12.Z1, is now contained in the new sub-clause 7.12.9.

<sup>3</sup> The text of A2 replaces the previous common modification.

## Annex ZC (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 When 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.cenelec.eu](http://www.cenelec.eu).

*Replace the reference to IEC 60252-1 with the following:*

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60252-1	-	AC motor capacitors - Part 1: General - Performance, testing and rating - Safety requirements - Guidance for installation and operation	EN 60252-1	2011

*Add the following references:*

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60445	2010	Basic and safety principles for man-machine interface, marking and identification - Identification of equipment terminals, conductor terminations and conductors	EN 60445	2010
IEC 62821-1	2015 <sup>1</sup>	Electric cables - Halogen-free, low smoke, - thermoplastic insulated and sheathed cables of rated voltages up to and including 450/750 V - Part 1: General requirements	-	-
ISO 178	2010	Plastics - Determination of flexural properties	EN ISO 178	2010
+ A1	2013		+ A1	2013
ISO 179-1	2010	Plastics - Determination of Charpy impact properties - Part 1: Non-instrumented impact test	EN ISO 179-1	2010
ISO 180	2000	Plastics - Determination of Izod impact strength	EN ISO 180	2000
+ A1	2006		+ A1	2006
+ A2	2013		+ A2	2013

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
ISO 527	series	Plastics - Determination of tensile properties	EN ISO 527-1	2012
			EN ISO 527-2	2012
			EN ISO 527-3	1995
			+AC	2002
			EN ISO 527-4	1997
			EN ISO 527-5	2009
ISO 4892-1	2016	Plastics - Methods of exposure to laboratory light sources - Part 1: General guidance	EN ISO 4892-1	2016
ISO 4892-2	2013	Plastics - Methods of exposure to laboratory light sources - Part 2: Xenon-arc lamps	EN ISO 4892-2	2013
ISO 8256	2004	Plastics - Determination of tensile-impact strength	EN ISO 8256	2004

### Annex ZD (normative), IEC and CENELEC code designations for flexible cords

Add an additional row in the Table ZD.1 of Annex ZD.

Type of flexible cord	Code designations	
	IEC	CENELEC
<b>Halogen free low smoke cords</b>	62821 IEC 101f	H03Z1Z1H2-F
Light duty	62821 IEC 101	H03Z1Z1-F
Ordinary duty	62821 IEC 102f	H05Z1Z1H2-F
	62821 IEC 102	H05Z1Z1-F

### Bibliography

Delete the following note:

IEC 82079-1 NOTE Harmonized as EN 82079-1.

INTERNATIONAL ELECTROTECHNICAL COMMISSION  
COMMISSION ÉLECTROTECHNIQUE INTERNATIONALE

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**IEC 60335-1**  
Amendment 2 to Edition 5.0 2016-05

HOUSEHOLD AND SIMILAR ELECTRICAL  
APPLIANCES – SAFETY –

Part 1: General requirements

**IEC 60335-1**  
Amendement 2 à l'Édition 5.0 2016-05

APPAREILS ELECTRODOMESTIQUES ET  
ANALOGUES – SÉCURITÉ –

Partie 1: Exigences générales

## CORRIGENDUM 1

Corrections to the French version appear after the English text.

Les corrections à la version française sont données après le texte anglais.

### 3 Terms and definitions

#### 3.6.8 detachable power supply part

*Replace the definition:*

part of the appliance the output of which is intended to be connected to a flexible cord detachable from the **class III construction** part of the appliance

*with the following new definition:*

part of the appliance the output of which is intended to be detachable from the **class III construction** part of the appliance

Note 1 to entry: Means of detachment are a flexible cord and connector or an appliance outlet fitted to the detachable power supply part.

Note 2 to entry: A detachable power supply part is also referred herein after as a detachable power supply unit or detachable supply unit



### 3 Termes et définitions

#### 3.6.8

#### **partie d'alimentation amovible**

*Remplacer la définition:*

partie de l'appareil dont la sortie est destinée à être reliée à un câble souple détachable de la **partie de la classe III** de l'appareil

*par la nouvelle définition suivante:*

partie de l'appareil dont la sortie est destinée à être détachée de la construction **partie de classe III** de l'appareil

Note 1 à l'article: Les moyens de détachement sont un cordon souple et un connecteur ou une sortie de l'appareil monté sur la partie détachable de l'alimentation.

Note 2 à l'article: Une partie détachable d'alimentation est également appelée ci-après comme une unité d'alimentation amovible.



# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

AMENDMENT 2  
AMENDEMENT 2

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