



BSI Standards Publication

## Household and similar electrical appliances — Safety

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Part 1: General requirements

This is a preview of "BS EN 60335-1:2012+A...". [Click here to purchase the full version from the ANSI store.](#)

## National foreword

This British Standard is the UK implementation of EN 60335-1:2012+A15:2021, incorporating corrigendum January 2014. It is derived from IEC 60335-1:2010, incorporating amendment 1:2013 and amendment 2:2016. It supersedes BS EN 60335-1:2012+A2:2019, which will be withdrawn on 1 March 2024.

The start and finish of text introduced or altered by amendment is indicated in the text by tags. Tags indicating changes to IEC text carry the number of the IEC amendment. For example, text altered by IEC amendment 1 is indicated by A1 A1.

Tags indicating changes by CENELEC carry the number of the CENELEC amendment. For example, text altered by CENELEC amendment A11 is indicated by A11 A11.

CENELEC common modifications have been implemented at the appropriate places in the text. The start and finish of each common modification is indicated in the text by tags C C.

Where a common modification to an IEC amendment has been introduced, the tags carry the number of the amendment. For example, the common modifications introduced by CENELEC to IEC amendment 1 are indicated by C1 C1.

The UK participation in its preparation was entrusted to Technical Committee CPL/61, Safety of household and similar electrical appliances.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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This publication has been prepared under a mandate given to the European Standards Organizations by the European Commission and the European Free Trade Association. It is intended to support essential requirements of the EU legislation detailed in the European Foreword. A European Annex, usually Annex ZA or ZZ, describes how this publication relates to that EU legislation.

For the Great Britain market (England, Scotland and Wales), if UK Government has designated this publication for conformity with UKCA marking (or similar) legislation, it may contain an additional National Annex. Where such a National Annex exists, it shows the correlation between this publication and the relevant UK legislation. If there is no

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National Annex of this kind, the relevant Annex ZA or ZZ in the body of the European text will indicate the relationship to UK regulation applicable in Great Britain. References to EU legislation may need to be read in accordance with the UK designation and the applicable UK law. Further information on designated standards can be found at [www.bsigroup.com/standardsandregulation](http://www.bsigroup.com/standardsandregulation).

For the Northern Ireland market, UK law will continue to implement relevant EU law subject to periodic confirmation. Therefore Annex ZA/ZZ in the European text, and references to EU legislation, are still valid for this market.

UK Government is responsible for legislation. For information on legislation and policies relating to that legislation, consult the relevant pages of [www.gov.uk](http://www.gov.uk).

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Published by BSI Standards Limited 2021

ISBN 978 0 539 11922 0

ICS 13.120; 97.030

**Compliance with a British Standard cannot confer immunity from legal obligations.**

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 May 2012.

**Amendments/corrigenda issued since publication**

Date	Text affected
31 October 2013	Compliance paragraph in Subclause 20.2 reinstated
31 May 2014	Implementation of CENELEC corrigendum January 2014: Contents and Subclause 7.12 corrected
31 August 2014	Implementation of CENELEC amendment A11:2014, including the revision of Annex ZF
31 October 2014	Tags added to CENELEC European foreword and title updated in Foreword to amendment A11
31 December 2017	Implementation of CENELEC amendment A13:2017, including the revision of Annex ZC and replacement of Annex ZZ with Annexes ZZA and ZZB, and correction to the amendments/corrigenda information in national foreword
29 February 2020	Implementation of IEC amendment 1:2013 with CENELEC endorsement A1:2019, including the revision of Annex ZC
29 February 2020	Implementation of CENELEC amendment A14:2019, including the revision of Annexes ZA, ZB, ZD and ZF and the addition of Annexes ZH and ZI
29 February 2020	Implementation of IEC amendment 2:2016 with CENELEC endorsement A2:2019, including the revision of Annex ZC

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Date	Text affected
30 June 2021	Implementation of CENELEC amendment A15:2021, including the revision of Annexes ZA, ZB, ZC, ZF and ZH

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EUROPEAN STANDARD

**EN 60335-1:2012+A15**

NORME EUROPÉENNE

EUROPÄISCHE NORM

June 2021

ICS 13.120; 97.030

English version

**Household and similar electrical appliances -  
Safety -  
Part 1: General requirements  
(IEC 60335-1:2010, modified)**

Appareils électrodomestiques et analogues -  
Sécurité -  
Partie 1: Exigences générales  
(CEI 60335-1:2010, modifiée)

Sicherheit elektrischer Geräte für den  
Hausgebrauch und ähnliche Zwecke -  
Teil 1: Allgemeine Anforderungen  
(IEC 60335-1:2010, modifiziert)

This European Standard was approved by CENELEC on 2011-11-21. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard 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 European Standard 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, Romania, 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**

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## European foreword

This document (EN 60335-1:2012) consists of the text of IEC 60335-1:2010 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 implemented at national level by publication of an identical national standard or by endorsement (dop) 2012-11-21
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2014-11-21

A11 The dow stated in this EN 60335-1:2012 and its relevant amendments is applicable only when the Part 1 is used to test products for which no Part 2 exists. This means that when a Part 2 exists the dow is the one mentioned in the relevant Part 2. A11

This document supersedes EN 60335-1:2002 + corr. Jul.2009 + corr. May.2010 + A1:2004 + A2:2006 + A11:2004 + A12:2006 + A13:2008 + A14:2010 + A15:2011 + corr. Jan.2007 + corr. Feb.2007.

Clauses, subclauses, notes, tables, figures and annexes which are additional to those in IEC 60335-1:2010 are prefixed "Z".

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 Annex ZZ, which is an integral part of this document.

This part of EN 60335 is to be used in conjunction with the appropriate Part 2. The Parts 2 contain clauses to supplement or modify the corresponding clauses in Part 1 to provide the relevant requirements for each type of appliance.

NOTE 1 The following annexes contain provisions suitably modified from other IEC standards:

- |           |                               |                             |
|-----------|-------------------------------|-----------------------------|
| – Annex E | Needle flame test             | EN 60695-11-5               |
| – Annex F | Capacitors                    | EN 60384-14                 |
| – Annex G | Safety isolating transformers | EN 61558-1 and EN 61558-2-6 |
| – Annex H | Switches                      | EN 61058-1                  |
| – Annex J | Coated printed circuit boards | EN 60664-3                  |
| – Annex N | Proof tracking test           | EN 60112                    |

NOTE 2 The following print types are used:

- requirements: in roman type;
- *test specifications: in italic type;*
- notes: in small roman type.

Words in **bold** in the text are defined in Clause 3. When a definition concerns an adjective, the adjective and associated noun are also in bold.

Special national conditions causing a deviation from this European Standard are listed in Annex ZA.

National deviations from this European Standard are listed in Annex ZB.

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### Endorsement notice

The text of the International Standard IEC 60335-1:2010 was approved by CENELEC as a European Standard with common modifications.

## Foreword to amendment A11

This document (EN 60335-1:2012/A11:2014) has been 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 implemented at national level by publication of an identical national standard or by endorsement (dop) 2015-06-16
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2014-11-21

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## Foreword to amendment A13

This document (EN 60335-1:2012/A13:2017) has been prepared by CLC/TC 61 "Safety of household and similar electrical appliances".

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2018-05-03
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2020-05-03

This Amendment 13 to EN 60335-1:2012 cancels and replaces with immediate effect EN 60335-1:2012/A12:2017.

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## Foreword to amendment A1

This document (EN 60335-1:2012/A1:2019) consists of the text of IEC 60335-1:2010/A1:2013 + COR:2014, 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 implemented at national level by publication of an identical national standard or by endorsement (dop) 2020-02-09
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2021-07-30

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

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

### Endorsement notice

The text of the International Standard IEC 60335-1:2010/A1:2013 + COR:2014 was approved by CENELEC as a European Standard with agreed common modifications.

## Foreword to amendment A14

This document (EN 60335-1:2012/A14:2019) has been 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 implemented at national level by publication of an identical national standard or by endorsement (dop) 2020-07-10
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2021-07-30

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

EN 60335-1:2012/A14:2019 is to be read in conjunction with EN 60335-1:2012 and its amendments, which are referred to in this text as "Part 1".

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For the relationship with EU Directive(s) see informative Annexes ZZ, which are part of EN 60335-1:2012 and its amendments.



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## Foreword to amendment A2

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, A1:2019 and A14:2019.

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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.

## Foreword to amendment A15

This document (EN 60335-1:2012/A15:2021) has been 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) 2022-03-01 implemented at national level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting (dow) 2024-03-01 with this document have to be withdrawn

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