BS EN 60335-2-15:2016+A12:2021

BSI Standards Publication

Household and similar electrical appliances — Safety

Part 2-15: Particular requirements for appliances for heating liquids

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Full document details: BS EN 60335-2-15:2016+A12:2021

National foreword

This British Standard is the UK implementation of EN 60335-2-15:2016+A12:2021 incorporating EN 60335-2-15:2016+A1:2021, and EN 60335-2-15:2016+A2:2021. It is derived from IEC 60335-2-15:2012 incorporating amendment 1:2016 and amendment 2:2018. It supersedes BS EN 60335-2-15:2016+A11:2018, which will be withdrawn on 1 October 2024.

The 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〉.

The start and finish of text introduced or altered by amendment is indicated in the text by tags. Tags indicating changes to the text carry the number of the CENELEC amendment. For example, text altered by CENELEC amendment A11 is indicated by [A11] 〈A11〉 and text altered by CENELEC amendment A12 is indicated by [A12] 〈A12〉.

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The UK participation in its preparation was entrusted to Technical Committee CPL/61/7, Safety of electrical appliances - Heated appliance group.

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

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 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 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.

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.

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Amendments/corrigenda issued since publication

Date	Text affected
31 March 2016	CENELEC common modifications implemented in the text
31 October 2018	Implementation of CENELEC amendment A11:2018
31 March 2022	Implementation of IEC amendment 1:2016 with CENELEC endorsement A1:2021
31 March 2022	Implementation of IEC amendment 2:2018 with CENELEC endorsement A2:2021
31 March 2022	Implementation of CENELEC amendment A12:2021

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 60335-2-15:2016+A12

October 2021

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English Version

Household and similar electrical appliances - Safety - Part 2-15: Particular requirements for appliances for heating liquids (IEC 60335-2-15:2012 , modified)

Appareils électrodomestiques et analogues - Sécurité - Partie 2-15: Exigences particulières pour les appareils de chauffage des liquides (IEC 60335-2-15:2012 , modifiée)

Sicherheit elektrischer Geräte für den Hausgebrauch und ähnliche Zwecke - Teil 2-15: Besondere Anforderungen für Geräte zur Flüssigkeitserhitzung (IEC 60335-2-15:2012 , modifiziert)

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

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European foreword

This document (EN 60335-2-15:2016) consists of the text of IEC 60335-2-15:2012 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) 2016-10-12
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2018-10-12

This document supersedes EN 60335-2-15:2002.

This Part 2-15 is to be used in conjunction with EN 60335-1:2012 and its amendments.

Clauses, subclauses, notes, tables, figures and annexes which are additional to those in IEC 60335-2-15:2012 are prefixed “Z”.

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

This standard covers the Principle Elements of the Safety Objectives for Electrical Equipment Designed for Use within Certain Voltage Limits (LVD - 2006/95/EC).

Endorsement notice

The text of the International Standard IEC 60335-2-15:2012 was approved by CENELEC as a European Standard with agreed common modifications.

Foreword to amendment A11

This document (EN 60335-2-15:2016/A11:2018) 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) 2019-03-28
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2021-09-28

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For the relationship with EU Directive(s) see informative Annex ZZ, which is an integral part of this document.

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European foreword to amendment A1

This document (*EN 60335-2-15:2016/A1:2021*) consists of the text of IEC 60335-2-15:2012/A2:2016 prepared by IEC/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) 2022-04-01
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2024-10-01

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This document is read in conjunction with EN 60335-2-15:2016/A12:2021.

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

For the relationship with EU Directive(s)/Regulation(s), see informative Annex ZZA, included in EN 60335-2-15:2016/A12:2021.

Any feedback and questions on this document should be directed to the users' national committee. A complete listing of these bodies can be found on the CENELEC website.

Endorsement notice

The text of the International Standard IEC 60335-2-15:2012/A1:2016 was approved by CENELEC as a European Standard without any modification.

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European foreword to amendment A2

The text of document 61/5709/FDIS, future IEC 60335-2-15/A2, prepared by IEC/TC 61 "Safety of household and similar electrical appliances" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 60335-2-15:2016/A2:2021.

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) 2022-02-20
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2024-08-20

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This document is read in conjunction with EN 60335-2-15:2016/A12:2021.

This European amendment A2 will supersede the standard EN 60335-2-15:2016+A11:2018 when EN 60335-2-15:2016/A12 is published.

This European amendment A2 is not linked to European legislation unless it is used in conjunction with A12.

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

For the relationship with EU Directive(s) / Regulation(s), see informative Annex ZZ, included in EN 60335-2-15:2016/A12:2021.

Any feedback and questions on this document should be directed to the users' national committee. A complete listing of these bodies can be found on the CENELEC website.

Endorsement notice

The text of the International Standard IEC 60335-2-15:2012/A2:2018 was approved by CENELEC as a European Standard without any modification.

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European foreword to amendment A12

This document EN 60335-2-15:2016/A12:2021 consists of the text 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)	2022-02-20
• latest date by which the national standards conflicting with this document have to be withdrawn	(dow)	2024-08-20

This document is read in conjunction with EN 60335-2-15:2016/A1:2021 and EN 60335-2-15:2016/A2:2021.

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 see informative Annex ZZA, which is an integral part of this document.

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CONTENTS

FOREWORD 4
INTRODUCTION 7
1 Scope 8
2 Normative references 10
3 Terms and definitions 10
4 General requirement 12
5 General conditions for the tests 12
6 Classification 13
7 Marking and instructions 13
8 Protection against access to live parts 16
9 Starting of motor-operated appliances 16
10 Power input and current 16
11 Heating 17
12 Void 20
13 Leakage current and electric strength at operating temperature 21
14 Transient overvoltages 21
15 Moisture resistance 21
16 Leakage current and electric strength 23
17 Overload protection of transformers and associated circuits 23
18 Endurance 23
19 Abnormal operation 23
20 Stability and mechanical hazards 26
21 Mechanical strength 27
22 Construction 27
23 Internal wiring 31
24 Components 32
25 Supply connection and external flexible cords 32
26 Terminals for external conductors 33
27 Provision for earthing 33
28 Screws and connections 33
29 Clearances, creepage distances and solid insulation 33
30 Resistance to heat and fire 34
31 Resistance to rusting 34
32 Radiation, toxicity and similar hazards 34
Annexes 35
Annex C (normative) Ageing test on motors 35
Bibliography 36
〈C〉 Figure Z101 – Probe for measuring flat surface temperatures ..... 17 〈C〉
Figure 101 – Schematic representation of the 30 ml spillage test 34
〈C〉 Table Z101 – Maximum temperature rises of external enclosures under normal operating conditions ..... 20 〈C〉

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Full document details: BS EN 60335-2-15:2016+A12:2021

INTERNATIONAL ELECTROTECHNICAL COMMISSION

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HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – SAFETY – Part 2-15: Particular requirements for appliances for heating liquids

FOREWORD

1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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This part of International Standard IEC 60335 has been prepared by IEC technical committee 61: Safety of household and similar electrical appliances.

This sixth edition cancels and replaces the fifth edition published in 2002 including its Amendment 1 (2005) and its Amendment 2 (2008). It constitutes a technical revision.

The principal changes in this edition as compared with the fifth edition of IEC 60335-2-15 are as follows (minor changes are not listed):

- added requirements for soy milk makers;
- added requirements for dynamic pressure cookers;
- expanded requirements for cordless kettles to cover cordless appliances throughout document;
- reorganized 7.12 so that instructions related to generic types of appliances covered by this part are listed first;
- converted notes to normative (5.2, 7.12, 19.101, 22.7, 22.106, 24.1.5, 24.4, 25.101) text;
- deleted Note in 19.102.

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

FDIS	Report on voting
61/4451/FDIS	61/4504/RVD

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Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

This part 2 is to be used in conjunction with the latest edition of IEC 60335-1 and its amendments. It was established on the basis of the fifth edition (2010) of that standard.

NOTE 1 When “Part 1” is mentioned in this standard, it refers to IEC 60335-1.

This part 2 supplements or modifies the corresponding clauses in IEC 60335-1, so as to convert that publication into the IEC standard: Safety requirements for appliances for heating liquids.

When a particular subclause of Part 1 is not mentioned in this part 2, that subclause applies as far as is reasonable. When this standard states “addition”, “modification” or “replacement”, the relevant text in Part 1 is to be adapted accordingly.

NOTE 2 The following numbering system is used:

– subclauses, tables and figures that are numbered starting from 101 are additional to those in Part 1;
– unless notes are in a new subclause or involve notes in Part 1, they are numbered starting from 101, including those in a replaced clause or subclause;
– additional annexes are lettered AA, BB, etc.

NOTE 3 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 the associated noun are also in bold.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

NOTE 4 The attention of National Committees is drawn to the fact that equipment manufacturers and testing organizations may need a transitional period following publication of a new, amended or revised IEC publication in which to make products in accordance with the new requirements and to equip themselves for conducting new or revised tests.

It is the recommendation of the committee that the content of this publication be adopted for implementation nationally not earlier than 12 months or later than 36 months from the date of publication.

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 following differences exist in the countries indicated below.

– 19.101: The test is not applicable (Japan).
– 25.8: A supply cord having a cross-sectional area of 0,75 mm² is not allowed for appliances having a rated current exceeding 6 A (Japan).
– 25.8: Longer supply cords are allowed (Japan).

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FOREWORD to Amendment 1

This amendment 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:

FDIS	Report on voting
61/5109/FDIS	61/5131/RVD

Full information on the voting for the approval of this amendment can be found in the report on voting indicated in the above table.

The committee has decided that the contents of this amendment and the base publication will remain unchanged until the stability date indicated on the IEC website under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

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NOTE The attention of National Committees is drawn to the fact that equipment manufacturers and testing organizations may need a transitional period following publication of a new, amended or revised IEC publication in which to make products in accordance with the new requirements and to equip themselves for conducting new or revised tests.

It is the recommendation of the committee that the content of this publication be adopted for implementation nationally not earlier than 12 months or later than 36 months from the date of publication.

FOREWORD to Amendment 2

This amendment 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:

FDIS	Report on voting
61/5709/FDIS	61/5725/RVD

Full information on the voting for the approval of this amendment can be found in the report on voting indicated in the above table.

The committee has decided that the contents of this amendment and the base publication will remain unchanged until the stability date indicated on the IEC website under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

NOTE The attention of National Committees is drawn to the fact that equipment manufacturers and testing organizations may need a transitional period following publication of a new, amended or revised IEC publication in which to make products in accordance with the new requirements and to equip themselves for conducting new or revised tests.

It is the recommendation of the committee that the content of this publication be adopted for implementation nationally not earlier than 12 months or later than 36 months from the date of publication.

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INTRODUCTION

It has been assumed in the drafting of this International Standard that the execution of its provisions is entrusted to appropriately qualified and experienced persons.

This standard recognizes the internationally accepted level of protection against hazards such as electrical, mechanical, thermal, fire and radiation of appliances when operated as in normal use taking into account the manufacturer's instructions. It also covers abnormal situations that can be expected in practice and takes into account the way in which electromagnetic phenomena can affect the safe operation of appliances.

This standard takes into account the requirements of IEC 60364 as far as possible so that there is compatibility with the wiring rules when the appliance is connected to the supply mains. However, national wiring rules may differ.

If an appliance within the scope of this standard also incorporates functions that are covered by another part 2 of IEC 60335, the relevant part 2 is applied to each function separately, as far as is reasonable. If applicable, the influence of one function on the other is taken into account.

When a part 2 standard does not include additional requirements to cover hazards dealt with in Part 1, Part 1 applies.

NOTE 1 This means that the technical committees responsible for the part 2 standards have determined that it is not necessary to specify particular requirements for the appliance in question over and above the general requirements.

This standard is a product family standard dealing with the safety of appliances and takes precedence over horizontal and generic standards covering the same subject.

NOTE 2 Horizontal and generic standards covering a hazard are not applicable since they have been taken into consideration when developing the general and particular requirements for the IEC 60335 series of standards. For example, in the case of temperature requirements for surfaces on many appliances, generic standards, such as ISO 13732-1 for hot surfaces, are not applicable in addition to Part 1 or part 2 standards.

An appliance that complies with the text of this standard will not necessarily be considered to comply with the safety principles of the standard if, when examined and tested, it is found to have other features that impair the level of safety covered by these requirements.

An appliance employing materials or having forms of construction differing from those detailed in the requirements of this standard may be examined and tested according to the intent of the requirements and, if found to be substantially equivalent, may be considered to comply with the standard.

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