



BSI Standards Publication

Household and similar electrical appliances — Safety

Part 2-54: Particular requirements for surface-cleaning appliances for household use employing liquids or steam

National foreword

This British Standard is the UK implementation of EN 60335-2-54:2008+A12:2021. It is derived from IEC 60335-2-54:2008 incorporating amendments A1:2015 and A2:2019. It supersedes BS EN 60335-2-54:2008+A1:2015, which will be withdrawn on 1 December 2024.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 and text altered by IEC amendment 2 is indicated by A2 A2.

Where a common modification has been introduced by CENELEC amendment, the tags carry the number of the amendment. For example, the common modifications introduced by CENELEC amendment A11 are indicated by C11 C11.

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The UK participation in its preparation was entrusted to Technical Committee CPL/61/1, Motorised appliance group.

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

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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 January 2013	Implementation of CENELEC amendment A11:2012
28 February 2015	Implementation of CENELEC corrigendum January 2015. Replacement of withdrawal date in National Foreword and Foreword to amendment A11
30 November 2015	Implementation of IEC amendment 1:2015 with CENELEC endorsement A1:2015
31 May 2022	Implementation of IEC amendment 2:2019 with CENELEC endorsement A2:2021
31 May 2022	Implementation of CENELEC amendment A12:2021

EUROPEAN STANDARD

EN 60335-2-54:2008+A12

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2021

ICS 13.120; 97.180

Incorporating corrigendum January 2015

English version

**Household and similar electrical appliances -
Safety -
Part 2-54: Particular requirements for surface-cleaning appliances
for household use employing liquids or steam
(IEC 60335-2-54:2008)**

Appareils électrodomestiques
et analogues -
Sécurité -
Partie 2-54: Règles particulières
pour les appareils de nettoyage
des surfaces à usage domestique,
utilisant des liquides ou de la vapeur
(CEI 60335-2-54:2008)

Sicherheit elektrischer Geräte
für den Hausgebrauch
und ähnliche Zwecke -
Teil 2-54: Besondere Anforderungen
für Geräte zur Oberflächenreinigung
mit Flüssigkeiten oder Dampf
(IEC 60335-2-54:2008)

This European Standard was approved by CENELEC on 2008-10-01. 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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, 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 and the United Kingdom.

CENELEC

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

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

EN 60335-2-54:2008+A12:2021 (E)

Foreword

The text of document 61/3676/FDIS, future edition 4 of IEC 60335-2-54, prepared by IEC Technical Committee 61, Safety of household and similar electrical appliances, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60335-2-54 on 2008-10-01.

This European Standard supersedes EN 60335-2-54:2003 + A1:2004 + A11:2006 + A2:2007.

The following dates are applicable:

- latest date by which the EN has to be implemented
at national level by publication of an identical
national standard or by endorsement (dop) 2009-07-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2013-10-01

This part 2 has to be used in conjunction with EN 60335-1, Household and similar electrical appliances – Safety – Part 1: General requirements. It was established on the basis of the 2002 edition of that standard. Amendments and revisions of Part 1 have also to be taken into account and the dates when such changes become applicable will be stated in the relevant amendment or revision of Part 1.

This part 2 supplements or modifies the corresponding clauses in EN 60335-1, so as to convert it into the European Standard: Safety requirements for electric surface-cleaning appliances employing liquids or steam.

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 1 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.
- subclauses, notes and annexes that are additional to those in the IEC standard are prefixed with the letter Z.

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 the associated noun are also in bold.

There are no special national conditions causing a deviation from this European Standard, other than those listed in Annex ZA to EN 60335-1.

There are no national deviations from this European Standard, other than those listed in Annex ZB to EN 60335-1.

p NOTE In this document, p is used in the margin to indicate instructions for preparing the printed version.

Introduction

A12 *Text deleted* A12

Endorsement notice

The text of the International Standard IEC 60335-2-54:2008 was approved by CENELEC as a European Standard without any modification.

Bibliography

p Add the following notes to the standards mentioned:

IEC 60335-2-10	NOTE	Harmonized as EN 60335-2-10:2003 (not modified).
IEC 60335-2-79	NOTE	Harmonized as EN 60335-2-79:2002 (modified).
IEC 60335-2-85	NOTE	Harmonized as EN 60335-2-85:2003 (not modified).
ISO 13732-1	NOTE	Harmonized as EN ISO 13732-1:2008 (not modified).

Foreword to amendment A11

This document (EN 60335-2-54:2008/A11:2012) 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) 2013-05-30
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2016-04-30

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 document has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association.

This amendment supplements or modifies the corresponding clauses of EN 60335-1:2012 and EN 60335-2-54:2008.

There are no special national conditions causing a deviation from this amendment.

There are no national deviations from this amendment.

EN 60335-2-54:2008+A12:2021 (E)

Foreword to amendment A1

The text of document 61/4867/CDV, future IEC 60335-2-54:2008/A1 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 60335-2-54:2008/A1:2015.

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) 2016-06-09
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2018-09-09

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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 60335-2-54:2008/A1:2015 was approved by CENELEC as a European Standard without any modification.

In the Bibliography of EN 60335-2-54:2008, **delete** the following note for the standard indicated:

ISO 13732-1 NOTE Harmonized as EN ISO 13732-1.

EN 60335-2-54:2008+A12:2021 (E)**European foreword to amendment A2**

This document (EN 60335-2-54:2008/A2:2021) consists of the text of IEC 60335-2-54:2008/A2:2019 prepared by IEC/TC 61 "Safety of household and similar electrical appliances".

The following dates are fixed:

- latest date by which this document has to be (dop) 2022-12-01
implemented at national level by publication of an
identical national standard or by endorsement
- latest date by which the national standards conflicting (dow) 2024-12-01
with this document have to be withdrawn

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This document is read in conjunction with EN 60335-2-54:2008/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 relationship with EU Directive(s) / Regulation(s), see informative Annex ZZA, which is an integral part of EN 60335-2-54:2008/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 60335-2-54:2008/A2:2019 was approved by CENELEC as a European Standard without any modification.

EN 60335-2-54:2008+A12:2021 (E)

European foreword to amendment A12

This document (EN 60335-2-54:2008/A12:2021) 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 implemented at national level by publication of an identical national standard or by endorsement	(dop)	2022-09-20
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latest date by which the national standards conflicting with this document have to be withdrawn	(dow)	2024-09-20
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This document is read in conjunction with EN 60335-2-54:2008/A2:2021.

The numbering system for European clauses, subclauses, notes, tables, figures and annexes that are additional to those in the IEC standard are prefixed with the letter "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).

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.

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

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IEC 60335-2-54:2008+A1:2015 © IEC:2015

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.

 This European amendment A12 supplements or modifies the corresponding clauses of the standards below:

- EN 60335-1:2012 +A11:2014+A13:2017+A1:2019+A14:2019+A2:2019 Part 1)
- EN 60335-2-54:2008+A11:2012+A1:2015 (Part 2)



HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES ± SAFETY ±

Part 2-54: Particular requirements for surface-cleaning appliances for household use employing liquids or steam

1 Scope

This clause of Part 1 is replaced by the following.

This International Standard deals with the safety of electric cleaning appliances for household use that are intended for cleaning surfaces ~~A1~~ by using liquid cleansing agents or steam, their **rated voltage** being not more than 250 V. It also covers wallpaper strippers.

NOTE 101 Appliances may incorporate heating elements or means for pressurising the liquid container.

~~C11~~ As far as is practicable, this standard deals with the common hazards presented by appliances that are encountered by all persons in household and similar environments.

However, in general, it does not take into account

- children playing with the appliance,
- the use of the appliance by **children**.

It is recognized that very vulnerable people may have needs beyond the level addressed in this standard. ~~C11~~

NOTE 102 Attention is drawn to the fact that

- for appliances intended to be used in vehicles or on board ships or aircraft, additional requirements may be necessary;
- in many countries additional requirements are specified by the national health authorities, the national authorities responsible for the protection of labour, and similar authorities.

NOTE 103 This standard does not apply to

- floor treatment and wet scrubbing machines (IEC 60335-2-10);
- cleaning appliances that are permanently fixed to a building;
- cleaning appliances covered by IEC 60335-2-79, namely those having a
 - pressure exceeding 2,5 MPa;
 - pressurised volume over 5 l;
 - product of pressure (in MPa) and container volume (in l) exceeding 5;
 - liquid temperature exceeding 160 °C;
 - **rated power input** exceeding 3 500 W;
- cleaning appliances intended for commercial or industrial use;
- appliances intended to be used in locations where special conditions prevail, such as the presence of a corrosive or explosive atmosphere (dust, vapour or gas);
- fabric steamers (IEC 60335-2-85).