



NSAI
Standards

Irish Standard
I.S. EN 60335-2-8:2015&A1:2016

Household and similar electrical appliances - Safety - Part 2-8: Particular requirements for shavers, hair clippers and similar appliances

I.S. EN 60335-2-8:2015&A1:2016

Incorporating amendments/corrigenda/National Annexes issued since publication:

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National Foreword

I.S. EN 60335-2-8:2015&A1:2016 is the adopted Irish version of the European Document EN 60335-2-8:2015, Household and similar electrical appliances - Safety - Part 2-8: Particular requirements for shavers, hair clippers and similar appliances

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 60335-2-8:2015/A1

February 2016

ICS 13.120; 97.170

English Version

Household and similar electrical appliances - Safety -
Part 2-8: Particular requirements for shavers, hair clippers
and similar appliances
(IEC 60335-2-8:2012/A1:2015)

Appareils électrodomestiques et analogues - Sécurité -
Partie 2-8: Exigences particulières pour les rasoirs,
les tondeuses et appareils analogues
(IEC 60335-2-8:2012/A1:2015)

Sicherheit elektrischer Geräte für den Hausgebrauch und
ähnliche Zwecke - Teil 2-8: Besondere Anforderungen für
Rasiergeräte, Haarschneidemaschinen und ähnliche Geräte
(IEC 60335-2-8:2012/A1:2015)

This amendment A1 modifies the European Standard EN 60335-2-8:2015; it was approved by CENELEC on 2015-12-28. 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.

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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

EN 60335-2-8:2015/A1:2016

European foreword

The text of document 61/5000/FDIS, future IEC 60335-2-8:2012/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 60335-2-8:2015/A1:2016.

The following dates are fixed:

- latest date by which the document has to be implemented at (dop) 2016-09-28
national level by publication of an identical national
standard or by endorsement
- latest date by which the national standards conflicting with (dow) 2018-12-28
the document have to be withdrawn

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).

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 2006/42/EC, see informative Annex ZZ, included in EN 60335-2-8:2015.

Endorsement notice

The text of the International Standard IEC 60335-2-8:2012/A1:2015 was approved by CENELEC as a European Standard without any modification.

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 60335-2-8

November 2015

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Supersedes EN 60335-2-8:2003

English Version

Household and similar electrical appliances - Safety -
Part 2-8: Particular requirements for shavers, hair clippers and
similar appliances
(IEC 60335-2-8:2012 , modified)

Appareils électrodomestiques et analogues - Sécurité -
Partie 2-8: Exigences particulières pour les rasoirs, les
tondeuses et appareils analogues
(IEC 60335-2-8:2012 , modifiée)

Sicherheit elektrischer Geräte für den Hausgebrauch und
ähnliche Zwecke - Teil 2-8: Besondere Anforderungen für
Rasiergeräte, Haarschneidemaschinen und ähnliche Geräte
(IEC 60335-2-8:2012 , modifiziert)

This European Standard was approved by CENELEC on 2015-07-20. 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.

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CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, 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: Avenue Marnix 17, B-1000 Brussels

EN 60335-2-8:2015

European foreword

This document (EN 60335-2-8:2015) consists of the text of IEC 60335-2-8:2012 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 the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2016-05-20
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2018-07-20

This document supersedes EN 60335-2-8:2003.

This Part 2-8 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 60335-2-8:2012 or in IEC 60335-1:2010 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 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 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 60335-2-8:2012 was approved by CENELEC as a European Standard with agreed common modifications.

Introduction

Add:

The principle objectives of Low Voltage Directive 2006/95/EC, are covered in this European Standard. The Essential Health and Safety Requirements of the Machinery Directive 2006/42/EC, which can be applicable to some appliances, covered by this part have also been taken into account.

1 Scope

This clause of Part 1 is replaced by the following.

This European Standard deals with the safety of electric shavers, hair clippers and similar appliances intended for the household environment and commercial purposes, their **rated voltage** being not more than 250 V.

NOTE Z101 Battery-operated appliances and other d.c. supplied appliances are within the scope of this standard.

NOTE Z102 Examples of similar appliances are **animal clippers** and those used for manicure and pedicure.

NOTE Z103 Examples of appliance for household environment are appliances for typical housekeeping functions used in the household environment that may also be used by non-expert users for typical housekeeping functions:

- in shops, offices and other similar working environments;
- in farm houses;
- by clients in hotels, motels and other residential type environments;
- in bed and breakfast type environments.

Appliances and machines intended to be used by expert or trained users in shops, in light industry and on farms, and appliances and machines which are declared to be for commercial use by lay persons are within the scope of this standard.

Additional requirements for such appliances are given in Annex ZE.

NOTE Z104 Examples of such appliances and machines are manicure and pedicure appliances, **animal clippers** and **animal shearers**, for commercial use, and appliances for hairdressers.

This standard deals with the reasonably foreseeable hazards presented by appliances and machines that are encountered by all persons.

However, in general, it does not take into account:

- **children** playing with the appliance;
- the use of the appliances by **very young children**;
- the use of shaver and **wet shaver** by **young children**;
- the use of the animal clipper, hair clipper, and appliances for manicure and pedicure by **young children** without supervision;
- the use of **animal shearer** by children;

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

EN 60335-2-8:2015

NOTE Z105 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, the national water supply authorities and similar authorities.

NOTE Z106 This standard does not apply to

- 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),
- massage appliances (EN 60335-2-32),
- appliances for medical purposes (EN 60601).

2 Normative references

Add the following standards:

EN ISO 3744, *Acoustics – Determination of sound power levels and sound energy levels of noise sources using sound pressure – Engineering methods for an essentially free field over a reflecting plane* (ISO 3744)

EN ISO 4871, *Acoustics – Declaration and verification of noise emission values of machinery and equipment* (ISO 4871)

EN ISO 11203, *Acoustics – Noise emitted by machinery and equipment – Determination of emission sound pressure levels at a work station and at other specified positions from the sound power level* (ISO 11203)

7 Marking and instructions

7.10 *Replace the first sentence of the fourth paragraph:*

Devices, except for those on **animal shearers**, used to start/stop operational functions of the appliance, if any, shall be distinguished from other manual devices by means of shape, or size, or surface texture, or position, etc.

7.12 *Replace the fourth paragraph from Part 1 by the following:*

Animal clipper, hair clipper, and appliances for manicure and pedicure can be used by **children** aged from 3 years under supervision.

Shaver, **wet shaver**, **animal clipper**, **hair clipper**, and appliances for manicure and pedicure can be used by **children** aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

Animal shearers can only be used by trained personnel.



IEC 60335-2-8

Edition 6.0 2012-12

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Household and similar electrical appliances – Safety –
Part 2-8: Particular requirements for shavers, hair clippers and similar
appliances**

**Appareils électrodomestiques et analogues – Sécurité –
Partie 2-8: Exigences particulières pour les rasoirs, les tondeuses et appareils
analogues**



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IEC 60335-2-8

Edition 6.0 2012-12

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Household and similar electrical appliances – Safety –
Part 2-8: Particular requirements for shavers, hair clippers and similar
appliances**

**Appareils électrodomestiques et analogues – Sécurité –
Partie 2-8: Exigences particulières pour les rasoirs, les tondeuses et appareils
analogues**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – SAFETY –

Part 2-8: Particular requirements for shavers, hair clippers and similar appliances

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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- 9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

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 60335-2-8 are as follows (minor changes are not listed):

- modified requirements for animal shearers (6.1, 11.8, 22.36);
- modified requirements for animal clippers (3.102, 11.8, 24.1.3);
- deleted reference to ISO 13732-1 from the Bibliography.

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

FDIS	Report on voting
61/4456/FDIS	61/4510/RVD

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 shavers, hair clippers and similar appliances.

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.

- 6.1: Class 0 appliances are allowed provided that their rated voltage does not exceed 150 V (Japan).
- 11.7: Appliances for household use are operated for 20 min. Other appliances are operated for 5 min with rest periods of 5 min (USA).
- 24.1.3: The test is carried out for 6 000 operations (USA).
- 25.7: Supply cords specially intended for use with electric shavers and hair clippers are allowed (USA).
- 25.14: The tests are not carried out (USA).

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.

HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – SAFETY –

Part 2-8: Particular requirements for shavers, hair clippers and similar appliances

1 Scope

This clause of Part 1 is replaced by the following.

This International Standard deals with the safety of electric shavers, hair clippers and similar appliances intended for household and similar purposes, their **rated voltage** being not more than 250 V.

NOTE 101 Examples of similar appliances are those used for manicure and pedicure.

Appliances not intended for normal household use, but which nevertheless may be a source of danger to the public, such as appliances intended to be used by laymen in shops and on farms, are within the scope of this standard.

NOTE 102 Examples of such appliances are **animal clippers**, **animal shearers** and appliances for hairdressers.

As far as is practicable, this standard deals with the common hazards presented by appliances that are encountered by all persons in and around the home. However, in general, it does not take into account

- persons (including children) whose
 - physical, sensory or mental capabilities; or
 - lack of experience and knowledgeprevents them from using the appliance safely without supervision or instruction;
- children playing with the appliance.

NOTE 103 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 national health authorities, national authorities responsible for the protection of labour and similar authorities.

NOTE 104 This standard does not apply to

- 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);
- massage appliances (IEC 60335-2-32);
- appliances for medical purposes (IEC 60601).

2 Normative references

This clause of Part 1 is applicable.

3 Terms and definitions

This clause of Part 1 is applicable except as follows.

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