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INTERNATIONAL STANDARD

CONSOLIDATED VERSION

Household and similar electrical appliances - Safety - Part 2-54: Particular requirements for surface-cleaning appliances for household use employing liquids or steam

IEC 60335-2-54:2022-10+AMD1:2025-09 CSV(en)



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CONTENTS

FO	REWORD	3
INT	RODUCTION	6
1	Scope	7
2	Normative references	7
3	Terms and definitions	8
4	General requirement	8
5	General conditions for the tests	8
6	Classification	9
7	Marking and instructions	9
8	Protection against access to live parts	10
9	Starting of motor-operated appliances	10
10	Power input and current	10
11	Heating	11
12	Charging of metal-ion batteries	12
13	Leakage current and electric strength at operating temperature	12
14	Transient overvoltages	13
15	Moisture resistance	13
16	Leakage current and electric strength	13
17	Overload protection of transformers and associated circuits	13
18	Endurance	13
19	Abnormal operation	13
20	Stability and mechanical hazards	14
21	Mechanical strength	14
22	Construction	16
23	Internal wiring	17
24	Components	17
25	Supply connection and external flexible cords	18
26	Terminals for external conductors	18
27	Provision for earthing	18
28	Screws and connections	18
29	Clearances, creepage distances and solid insulation	18
30	Resistance to heat and fire	18
31	Resistance to rusting	19
32	Radiation, toxicity and similar hazards	19
Ann	nexes	22
	nex B (normative) Battery-operated appliances, separable batteries and achable batteries for battery-operated appliances	22
Bibl	liography	23
Figu	ure 101 – Probe for measuring surface temperatures	19
Fiai	ure 102 – Apparatus for testing the abrasion resistance of current-carrying hoses	19

Figure 103 – Apparatus for testing the resistance to flexing of current-carrying hoses	20
Figure 104 – Configuration of the hose for the freezing treatment	20
Figure 105 – Flexing positions for the hose after removal from the freezing cabinet	21
Table 101 – Maximum temperature rises for specified external accessible surfaces under normal operating conditions	12

INTERNATIONAL ELECTROTECHNICAL COMMISSION

Household and similar electrical appliances - Safety -

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

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.
- 2) The formal decisions or agreements of IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested IEC National Committees.
- 3) IEC Publications have the form of recommendations for international use and are accepted by IEC National Committees in that sense. While all reasonable efforts are made to ensure that the technical content of IEC Publications is accurate, IEC cannot be held responsible for the way in which they are used or for any misinterpretation by any end user.
- 4) In order to promote international uniformity, IEC National Committees undertake to apply IEC Publications transparently to the maximum extent possible in their national and regional publications. Any divergence between any IEC Publication and the corresponding national or regional publication shall be clearly indicated in the latter.
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- 8) Attention is drawn to the Normative references cited in this publication. Use of the referenced publications is indispensable for the correct application of this publication.
- 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 consolidated version of the official IEC Standard and its amendment has been prepared for user convenience.

IEC 60335-2-54 edition 5.1 contains the fifth edition (2015-02) [documents 61/6672/FDIS and 61/6749/RVD] and its amendment 1 (2025-09) [documents 61/7462/FDIS and 61/7494/RVD].

In this Redline version, a vertical line in the margin shows where the technical content is modified by amendment 1. Additions are in green text, deletions are in strikethrough red text. A separate Final version with all changes accepted is available in this publication.

IEC 60335-2-54 has been prepared by IEC technical committee 61: Safety of household and similar electrical appliances. It is an International Standard.

This fifth edition cancels and replaces the fourth edition published in 2008, Amendment 1: 2015 and Amendment 2: 2019. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) alignment with IEC 60335-1:2020;
- b) conversion of some notes to normative text (Clause 1, 15.2, 21.103, 21.105, 22.103);
- c) addition of external accessible surface temperature limits (3.6.102, 3.6.103, 7.1, 11.3, 11.8)
- d) exception for hand-held appliances (20.1);

The text of this International Standard is based on the following documents:

Draft	Report on voting
61/6672/FDIS	61/6749/RVD

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

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/standardsdev/publications.

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.

This part 2 is to be used in conjunction with the latest edition of IEC 60335-1 and its amendments unless that edition precludes it; in that case, the latest edition that does not preclude it is used. It was established on the basis of the sixth edition (2020) 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: Particular requirements for surface-cleaning appliances for household use 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 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 document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document 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.

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.

Guidance documents concerning the application of the safety requirements for appliances can be accessed via TC 61 supporting documents on the IEC website

https://www.iec.ch/tc61/supportingdocuments

This information is given for the convenience of users of this International Standard and does not constitute a replacement for the normative text in this standard.

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 can 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 publications, basic safety publications and group safety publications 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.

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.

NOTE 3 Standards dealing with non-safety aspects of household appliances are:

- IEC standards published by TC 59 concerning methods of measuring performance;
- CISPR 11, CISPR 14-1 and relevant IEC 61000-3 series standards concerning electromagnetic emissions;
- CISPR 14-2 concerning electromagnetic immunity;
- IEC standards published by TC 111 concerning environmental matters.

1 Scope

This clause of Part 1 is replaced by the following.

This part of IEC 60335 deals with the safety of electric cleaning appliances for household use that are intended for cleaning surfaces by using liquid cleansing agents or steam, their **rated voltage** being not more than 250 V including direct current (DC) supplied appliances and **battery-operated appliances**. It also covers wallpaper strippers and surface cleaning appliances incorporating heating elements or means for pressurizing the liquid container.

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 knowledge

prevents them from using the appliance safely without supervision or instruction;

children playing with the appliance.

Attention is drawn to the fact that

- for appliances intended to be used in vehicles or on board ships or aircraft, additional requirements can 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.

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 I) 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).

2 Normative references

This clause of Part 1 is applicable except as follows.

Addition:

IEC 60584-1, Thermocouples – Part 1: EMF specifications and tolerances

ISO 6344-2, Coated abrasives – Determination and designation of grain size distribution – Part 2: Macrogrit sizes P12 to P220

CONTENTS

FOF	REWORD	3
INT	RODUCTION	6
1	Scope	7
2	Normative references	7
3	Terms and definitions	8
4	General requirement	8
5	General conditions for the tests	8
6	Classification	9
7	Marking and instructions	9
8	Protection against access to live parts	10
9	Starting of motor-operated appliances	10
10	Power input and current	10
11	Heating	11
12	Charging of metal-ion batteries	12
13	Leakage current and electric strength at operating temperature	12
14	Transient overvoltages	13
15	Moisture resistance	13
16	Leakage current and electric strength	13
17	Overload protection of transformers and associated circuits	13
18	Endurance	13
19	Abnormal operation	13
20	Stability and mechanical hazards	14
21	Mechanical strength	14
22	Construction	16
23	Internal wiring	17
24	Components	17
25	Supply connection and external flexible cords	18
26	Terminals for external conductors	18
27	Provision for earthing	18
28	Screws and connections	18
29	Clearances, creepage distances and solid insulation	18
30	Resistance to heat and fire	18
31	Resistance to rusting	19
32	Radiation, toxicity and similar hazards	19
Ann	nexes	22
	nex B (normative) Battery-operated appliances, separable batteries and achable batteries for battery-operated appliances	22
Bibl	liography	23
Figu	ure 101 – Probe for measuring surface temperatures	19
_	ure 102 – Apparatus for testing the abrasion resistance of current-carrying hoses	

Figure 103 – Apparatus for testing the resistance to flexing of current-carrying hoses	20
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 - 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).

2 Normative references

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Addition:

IEC 60584-1, Thermocouples – Part 1: EMF specifications and tolerances

ISO 6344-2, Coated abrasives – Determination and designation of grain size distribution – Part 2: Macrogrit sizes P12 to P220