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Responsible committee: CPL/61 Safety of household and similar electrical appliances

Interested committees:

Title: Draft BS EN IEC 60335-2-50 Household and similar electrical appliances - Safety. Part 2-50: Particular requirements for commercial electric bains-marie.

Please notify the secretary if you are aware of any keywords that might assist in classifying or identifying the standard or if the content of this standard

- i) has any issues related to 3rd party IPR, patent or copyright
- ii) affects other national standard(s)
- iii) requires additional national guidance or information

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This draft is issued to allow comments from interested parties; all comments will be given consideration prior to publication. No acknowledgement will normally be sent. **See overleaf for information on the submission of comments.**

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Introduction

This draft standard is based on national and international discussions. Your comments on this draft are invited and will assist in the preparation of the consequent standard.

For international standards, comments will be reviewed by the relevant UK national committee before sending the consensus UK vote and comments to the international committee, which will then decide appropriate action. If the international standard is approved, it is usual for the text to be published as a British Standard.

For national standards, comments will be reviewed by the relevant UK national committee and the resulting standards published as a British Standard.

UK Vote

Please indicate whether you consider the UK should submit a negative (with supporting technical reasons) or positive vote on this draft. Please indicate if you are aware of any reason why this draft standard should not be published as a British Standard.

Submission of Comments

- **Annotated drafts are not acceptable and will be rejected.**
- All comments should be submitted online at <https://standardsdevelopment.bsigroup.com/>. You will need to register in order to comment.

Template for comments and secretariat observations

Date: xx/xx/20xx	Document: ISO/DIS xxxx
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1	2	(3)	4	5	(6)	7
MB	Clause No./ Subclause No./Annex (e.g. 3.1)	Paragraph/Figure/ Table/Note	Type of comment	Commend (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
	3.1	Definition 1	ed	Definition is ambiguous and needs clarifying.	Amend to read '...so that the mains connector to which no connection...'	
	6.4	Paragraph 2	te	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK.	Delete reference to UV photometer.	



61/6167/CDV

COMMITTEE DRAFT FOR VOTE (CDV)

PROJECT NUMBER:
IEC 60335-2-50 ED5

DATE OF CIRCULATION:
2021-01-01

CLOSING DATE FOR VOTING:
2021-03-26

SUPERSEDES DOCUMENTS:
61/6139/RR

IEC TC 61 : SAFETY OF HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES

SECRETARIAT:
United States of America

SECRETARY:
Ms Randi Myers

OF INTEREST TO THE FOLLOWING COMMITTEES:

PROPOSED HORIZONTAL STANDARD:



Other TC/SCs are requested to indicate their interest, if any, in this CDV to the secretary.

FUNCTIONS CONCERNED:

☐ EMC

☐ ENVIRONMENT

☐ QUALITY ASSURANCE

☒ SAFETY

☐ SUBMITTED FOR CENELEC PARALLEL VOTING

☒ NOT SUBMITTED FOR CENELEC PARALLEL VOTING

This document is still under study and subject to change. It should not be used for reference purposes.

Recipients of this document are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

TITLE:

Household and similar electrical appliances - Safety - Part 2-50: Particular requirements for commercial electric bains-marie

PROPOSED STABILITY DATE: 2024

NOTE FROM TC/SC OFFICERS:

This document is circulated according to the decisions taken at the meeting of TC 61 in 2020/Web - see 61/5998A/DA.

History Refer to:

61/6086/DC and 61/6106A/INF in 61 (2020Web/Secretariat) 09 item 21.

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES –
SAFETY –****Part 2-50: Particular requirements
for commercial electric bains-marie**

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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- 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.

1 International Standard IEC 60335-2-50 has been prepared by IEC technical committee 61:
2 Safety of household and similar electrical appliances.

3 This fifth edition cancels and replaces the fourth edition published in 2002, Amendment 1: 2007
4 and Amendment 2:2017. This edition constitutes a technical revision.

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

7 – the text has been aligned with Part 1 Ed 6;

8 – some notes have been converted to normative text or deleted (1, 7.15, 10.1, 11.7, 16.2, 20.1,
9 20.101, 21.101, 22.101, 23.3, 27.2);

10 – clarifications to some test specifications have been made (7.102, 9.101, 11.4, 15.1.1, 15.2,
11 19.1, 20.1)

12 – conciliate the text of IEC 60335-2-50 with the one of other standards under IEC/TC61/MT32.

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

FDIS	Report on voting
61/XX/FDIS	61/XX/RVD

14 Full information on the voting for the approval of this International Standard can be found in the
15 report on voting indicated in the above table.

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

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

18 This part 2 is to be used in conjunction with the latest edition of IEC 60335-1 and its
19 amendments. It was established on the basis of the sixth edition (2020) of that standard.

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

21 This part 2 supplements or modifies the corresponding clauses in IEC 60335-1, so as to convert
22 that publication into the IEC standard: Safety requirements for commercial electric bains-marie.

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

26 NOTE 2 The following numbering system is used:

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

31 NOTE 3 The following print types are used:

- 32 – requirements: in roman type;
- 33 – *test specifications: in italic type*;
- 34 – notes: in small roman type.

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

37 The committee has decided that the contents of this document will remain unchanged until the
38 stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to
39 the specific document. At this date, the document will be

- 40 • reconfirmed,
- 41 • withdrawn,
- 42 • replaced by a revised edition, or
- 43 • amended.

44 The National Committees are requested to note that for this publication the stability date is
45 2024.

46 THIS TEXT IS INCLUDED FOR THE INFORMATION OF THE NATIONAL COMMITTEES AND
47 WILL BE DELETED AT THE PUBLICATION STAGE.

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

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

54 The following differences exist in the countries indicated below.

55 – 6.1: Class 01 appliances are allowed (Japan).

56 – 6.2: For appliances intended to be installed in a kitchen, an appropriate degree of protection against harmful
57 ingress of water is required according to their height of installation (France).

58 – 13.2: Leakage current limits are different (Japan).

59 – 16.2: Leakage current limits are different (Japan).

60 – Clause 21: For appliances intended to be installed in a kitchen, different values of impact energy are applicable
61 according to the height of the impact point (France).

62 **Note of the Secretary:** National Committees are asked to reconfirm their in some countries
63 notes. They will be deleted unless reconfirmed.

64

65

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.

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.

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.

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.

HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – SAFETY –

Part 2-50: Particular requirements for commercial electric bains-marie

1 Scope

This clause of Part 1 is replaced by the following.

This International Standard deals with the safety of electrically operated commercial **bains-marie** ~~not intended for household and similar use~~, their **rated voltage** being not more than 250 V for single-phase appliances connected between one phase and neutral, and 480 V for other appliances.

These appliances are not intended for household and similar purposes. They are used for commercial processing of food in areas not open to the public, for example in kitchens of restaurants, canteens, hospitals and in commercial enterprises such as bakeries and butcheries.

The electrical part of appliances making use of other forms of energy is also within the scope of this standard.

As far as is practicable, this standard deals with the common hazards presented by these types of appliances.

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;
- for appliances intended to be used outdoors, additional requirements may be necessary.

This standard does not apply to

- appliances designed exclusively for industrial purposes;
- 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);
- appliances for continuous mass production of food.
- appliances for heating liquids used in the following environments (IEC 60335-2-15);
 - staff kitchen areas in shops, offices and other working environments;
 - farm houses;
 - by clients in hotels, motels and other residential type environments;
 - bed and breakfast type environments.

2 Normative references

This clause of Part 1 is applicable except as follows.

Addition: