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Responsible committee: CPL/61/7 Safety of electrical appliances - Heated appliance group

Interested committees:

Title: BS EN IEC 60335-2-35 Household and similar electrical appliances - Safety

Part 2-35: Particular requirements for instantaneous water heaters

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 NOT CURRENT BEYOND 14 August 2024

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 Please indicate if you are aware of any reason why this draft standard should not be published as a British Standard.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.	



61/7250/CDV

COMMITTEE DRAFT FOR VOTE (CDV)

PROJECT NUMBER: IEC 60335-2-35 ED6	
DATE OF CIRCULATION: 2024-06-21	CLOSING DATE FOR VOTING: 2024-09-13
SUPERSEDES DOCUMENTS: 61/7202/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.

Recipients of this document are invited to submit, with their comments, notification of any relevant "In Some Countries" clauses to be included should this proposal proceed. Recipients are reminded that the CDV stage is the final stage for submitting ISC clauses. (SEE [AC/22/2007](#) OR [NEW GUIDANCE DOC](#)).

TITLE:

Household and similar electrical appliances - Safety - Part 2-35: Particular requirements for instantaneous water heaters

PROPOSED STABILITY DATE: 2028

NOTE FROM TC/SC OFFICERS:

This document is circulated according to the decision from 61/7156/Q and 61/7200/RQ.

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES –
SAFETY –****Part 2-35: Particular requirements for instantaneous water heaters**

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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IEC 60335-2-35 has been prepared by IEC technical committee 61: Safety of household and similar electrical appliances. It is an International Standard.

This sixth edition cancels and replaces the fifth edition published in 2012, Amendment 1: 2015 and Amendment 2:2020. 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, 19.4);

112 c) clarification of requirements for remote operations (22.40, 22.49).

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

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

114
115 Full information on the voting for its approval can be found in the report on voting indicated in
116 the above table.

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

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

122 A list of all parts of the IEC 60335 series, under the general title: *Household and similar*
123 *electrical appliances – Safety*, can be found on the IEC website.

124 This part 2 is to be used in conjunction with the latest edition of IEC 60335-1 and its
125 amendments unless that edition precludes it; in that case, the latest edition that does not
126 preclude it is used. It was established on the basis of the sixth edition (2020) of that standard.

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

128 This part 2 supplements or modifies the corresponding clauses in IEC 60335-1, so as to
129 convert that publication into the IEC standard: Particular requirements for instantaneous water
130 heaters.

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

134 NOTE 2 The following numbering system is used:

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

139 NOTE 3 The following print types are used:

- 140 – requirements: in roman type;
141 – *test specifications: in italic type*;
142 – notes: in small roman type.

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

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

- 149 • reconfirmed,
150 • withdrawn,
151 • replaced by a revised edition, or

- amended.

The National Committees are requested to note that for this publication the stability date is 2028.

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

NOTE 4 The attention of National Committees is drawn to the fact that equipment manufacturers and testing organizations **can** 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.

The following differences exist in the countries indicated below.

- 6.1: Bare-element water heaters are not allowed (India).
- 6.1: Class 0I appliances are allowed (Japan).
- 7.1: Marking of rated pressure is different and marking of water resistivity is not required (USA).
- 19.4: Flow switches tested for reliability are not short-circuited (USA).
- 19.13: The water temperatures are different (USA).
- 22.101: For closed water heaters, the minimum rated pressure is 1,0 MPa (Norway, Sweden).
- 22.103: Closed water heaters have to incorporate a temperature relief valve or a combined temperature and pressure relief valve that has to operate before the water temperature reaches 100 °C (United Kingdom).
- 22.103: The pressure relief valve is not required to be provided with the heater (USA).

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