

BSI Standards Publication

Household and similar electrical appliances — Safety

Part 2-81: Particular requirements for foot warmers and heating mats

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Full document details: BS EN IEC 60335-2-81:2023+A2:2023

National foreword

This British Standard is the UK implementation of EN IEC 60335-2-81:2023+A2:2023. It is identical to IEC 60335-2-81:2015, incorporating amendments 1:2017 and 2:2020. It supersedes BS EN 60335-2-81:2003+A2:2012, which will be withdrawn on 12 May 2026.

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.

The UK participation in its preparation was entrusted to Technical Committee CPL/61/7, Safety of electrical appliances - Heated appliance group.

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

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Amendments/corrigenda issued since publication

Date	Text affected

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English Version

Household and similar electrical appliances - Safety - Part 2-81: Particular requirements for foot warmers and heating mats (IEC 60335-2-81:2015)

Appareils électrodomestiques et analogues - Sécurité - Partie 2-81: Exigences particulières pour les chancelières et les carpettes chauffantes électriques (IEC 60335-2-81:2015)

Sicherheit elektrischer Geräte für den Hausgebrauch und ähnliche Zwecke - Teil 2-81: Besondere Anforderungen an Fußwärmer und Heizmatten (IEC 60335-2-81:2015)

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

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European foreword

This document (EN IEC 60335-2-81:2023) consists of the text of IEC 60335-2-81:2015 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 implemented at national level by publication of an identical national standard or by endorsement (dop) 2023-11-12
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2026-05-12

This document supersedes EN 60335-2-81:2003, and all its amendments/corrigenda (if any).

This document is read in conjunction with EN IEC 60335-2-81:2023/A1:2023 and EN IEC 60335-2-81:2023/A2:2023.

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European foreword to amendment A1

This document (EN IEC 60335-2-81:2023/A1:2023) consists of the text of IEC 60335-2-81:2015/A1:2017 prepared by IEC/TC 61 “Safety of household and similar electrical appliances”.

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European foreword to amendment A2

This document (EN IEC 60335-2-81:2023/A2:2023) consists of the text of IEC 60335-2-81:2015/A2:2020 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 implemented at national level by publication of an identical national standard or by endorsement	(dop)	2024-03-01
• latest date by which the national standards conflicting with this document have to be withdrawn	(dow)	2026-03-01

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CONTENTS

FOREWORD 4
INTRODUCTION 7
1 Scope 8
2 Normative references 8
3 Terms and definitions 9
4 General requirement 9
5 General conditions for the tests 9
6 Classification 10
7 Marking and instructions 10
8 Protection against access to live parts 11
9 Starting of motor-operated appliances 11
10 Power input and current 11
11 Heating 11
12 Void 12
13 Leakage current and electric strength at operating temperature 12
14 Transient overvoltages 12
15 Moisture resistance 12
16 Leakage current and electric strength 12
17 Overload protection of transformers and associated circuits 13
18 Endurance 13
19 Abnormal operation 13
20 Stability and mechanical hazards 13
21 Mechanical strength 13
22 Construction 16
23 Internal wiring 17
24 Components 17
25 Supply connection and external flexible cords 17
26 Terminals for external conductors 17
27 Provision for earthing 17
28 Screws and connections 18
29 Clearances, creepage distances and solid insulation 18
30 Resistance to heat and fire 18
31 Resistance to rusting 20
32 Radiation, toxicity and similar hazards 20
Annexes 25
Bibliography 27

Figure 101 – Equipment for the flexing test for foot warmers 21
Figure 102 – Equipment for flexing heating elements and internal wiring 22
Figure 103 – Equipment for the spark ignition test 23
Figure 104 – Details of the mask 24

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Full document details: BS EN IEC 60335-2-81:2023+A2:2023

Figure 105 – Apparatus for pressure test on connectors 25

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – SAFETY –

Part 2-81: Particular requirements for foot warmers and heating mats

FOREWORD

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This part of International Standard IEC 60335 has been prepared by IEC technical committee 61: Safety of household and similar electrical appliances.

This third edition constitutes a technical revision.

The principal changes in this edition as compared with the second edition of IEC 60335-2-81 are as follows (minor changes are not listed):

- Requirements for washable appliances (5.3, 7.1, 7.6, 7.12);
- Requirements for controls in flexible cords (15.1.1, 24.2);
- Requirements for appliance inlets (22.105, 24.1.5, 29.1.3).

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 foot warmers and heating mats.

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 the base publication and its amendments 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,
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- replaced by a revised edition, or
- amended.

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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.

– 3.1.9: Normal operation is different (USA)
– 6.1: Class 0 appliances are allowed if their rated voltage does not exceed 150 V (Japan)
– 6.1: Class 0 and class I appliances are allowed (USA)
– 7.6: Symbols not permitted to replace required text (USA)
– 11.8: Temperature limit is different (USA)
– 13.2: Method and limit is different (USA)
– 19.2: The test is different (USA)
– 21.101: The test is different (USA)
– 22.101: The tests are different (USA)

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