
Safety of electrically heated blankets, pads and similar flexible heating appliances for household use - Amendment A2 (IEC 60967:1988/A2:1995, modified)

Safety of electrically heated blankets, pads and similar flexible heating appliances for household use

Sicherheit elektrischer Wärmездеcken, Wärmeunterbetten, Heizkissen und ähnlicher schmiegsamer Wärmegeräte für den Hausgebrauch

Sécurité des couvertures, coussins et appareils chauffants souples analogues pour usage domestique, chauffés électriquement

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Ta slovenski standard je istoveten z: EN 60967:1990/A2:1997

ICS:

13.120	Varnost na domu	Domestic safety
97.030	Ò\ dā } ãæ ææã æã [{ Á æ •] [[z] [Domestic electrical appliances in general
97.180	Razna oprema za dom in trgovino	Miscellaneous domestic and commercial equipment

SIST EN 60967:1995/A2:1998 en

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EUROPEAN STANDARD

EN 60967/A2

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 1997

UDC 64.06-83:644.194:620.1:614.8
ICS 13.120; 97.180

Descriptors: Household electrical appliances, heated blanket, safety requirements, protection against electric shock, fire protection, protection against mechanical hazard

English version

**Safety of electrically heated blankets, pads and similar
flexible heating appliances for household use
(IEC 60967:1988/A2:1995, modified)**

Sécurité des couvertures, coussins et
appareils chauffants souples analogues
pour usage domestique, chauffés
électriquement
(CEI 60967:1988/A2:1995, modifiée)

Sicherheit elektrischer Wärmzudecken,
Wärmeunterbetten, Heizkissen und
ähnlicher schmiegsamer Wärmegeräte
für den Hausgebrauch
(IEC 60967:1988/A2:1995, modifiziert)



REPUBLIKA SLOVENIJA
MINISTRSTVO ZA ZNANOST IN TEHNOLOGIJO
Urad RS za standardizacijo in meroslovje

LJUBLJANA

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SIST EN 60967/A2

PREVZET PO METODI RAZGLASITVE

-06- 1998

This amendment A2 modifies the European Standard EN 60967:1990; it was approved by CENELEC on 1997-10-01. 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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

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

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

The proposal to endorse amendment 2:1995 to IEC 60967:1988, document CLC/TC 61 (SEC) 1064, was circulated under the enquiry procedure in March 1996. This proposal was discussed during the Athens meeting in November 1996, when it was decided to submit a draft for an amendment to the formal vote.

This draft was circulated in May 1997 and was approved by CENELEC as amendment A2 to EN 60967:1990 on 1997-10-01.

This amendment has been prepared by the secretariat of CENELEC Technical Committee TC 61.

- latest date by which the amendment has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 1998-07-01
- date on which national standards conflicting with the amendment have to be withdrawn (dow) 2000-07-01

For products which have complied with EN 60967:1990 including its amendments A1:1993 and A51:1994 before 2000-07-01, as shown by the manufacturer or by a certification body, this previous standard may continue to apply for production until 2005-07-01. However, subclause 19.3 of this previous standard is not to be applied for production after 2000-07-01.

Other publications quoted in this amendment:

EN 60695-2-2:1994 Fire hazard testing - Part 2: Test methods - Section 2: Needle-flame test

p In this document p is used in the margin to indicate instructions for preparing the printed version.

[SIST EN 60967:1995/A2:1998](https://standards.iteh.ai/catalog/standards/sist/b9h8bbfc-f9a7-4d4a-9eb8-bda31dd289/sist-en-60967-1995-a2-1998)

<https://standards.iteh.ai/catalog/standards/sist/b9h8bbfc-f9a7-4d4a-9eb8-bda31dd289/sist-en-60967-1995-a2-1998>

Endorsement notice

The text of amendment 2:1995 to the International Standard IEC 60967:1988 was approved by CENELEC as an amendment to the European Standard with agreed common modifications as given below.

COMMON MODIFICATIONS

p Delete the references to page numbers.

19 Abnormal operation

p 19.3 Replace the last sentence by:

The upper sheet of lagging material, having dimensions of 450 mm x 300 mm x 90 mm, is placed on the folded blanket at the most unfavourable location. An evenly distributed mass of 5 kg, such as a sand bag, is placed on the upper sheet of lagging material.



NORME
INTERNATIONALE
INTERNATIONAL
STANDARD

CEI
IEC
967

1988

AMENDEMENT 2
AMENDMENT 2

1995-11

Amendement 2

Sécurité des couvertures, coussins
et appareils chauffants souples analogues
pour usage domestique, chauffés
électriquement

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Safety of electrically heated blankets,
pads and similar flexible heating
appliances for household use

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Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

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FOREWORD

This amendment has been prepared by IEC technical committee 61: Safety of household and similar electrical appliances.

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

DIS	Report on voting
61/897/DIS	61/987/RVD

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

Page 5

PREFACE

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Add, on page 7, to the list of IEC publications quoted in the standard:

[SIST EN 60967:1995/A2:1998](https://standards.iteh.ai/catalog/standards/sist/b9b8bbfc-9a7-4d4a-9eb8-bda31dd28f9/sist-en-60967-1995-a2-1998)

695-2-1: 1991, *Fire hazard testing – Part 2: Test methods – Section 1: Glow-wire test and guidance*

695-2-2: 1991, *Fire hazard testing – Part 2: Test methods – Section 2: Needle-flame test*

695-2-3: 1984, *Fire hazard testing – Part 2: Test methods – Section 3: Bad-connection test with heaters*

707: 1981, *Methods of test for the determination of the flammability of solid electrical insulating materials when exposed to an igniting source*

Page 25

7 Marking

7.7 c) Delete, in amendment 1, the term "ruck-resistant".

Page 59

19 Abnormal operation

19.3 *Replace, on page 61, the first paragraph by:*

Underblankets, other than ruck-resistant blankets, are operated under conditions of adequate heat discharge except that the blanket is folded with a five-thickness fold 100 mm wide at the most unfavourable place. The fold is perpendicular to the direction of the runs of the heating element and across the full width of the blanket. The lower sheet of lagging is approximately 72 mm thick. The upper sheet of lagging material, having dimensions of 300 mm x 800 mm and a thickness of approximately 180 mm in a single layer, is placed on the folded blanket at the most unfavourable place.

19.9 *Add a note on page 65:*

NOTE – A short circuit which could occur in use is one which could occur during the tests of 19.2 to 19.8 and 19.10.

Page 67

21 Mechanical strength

21.5 *Replace, in the first paragraph of amendment 1 "having a thickness of 2,5 d as specified in appendix C." by:*

having a thickness of approximately 180 mm.

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Page 83

22 Construction

22.17 *Delete, in amendment 1, "ruck-resistant".*

22.22 *Add the following text on page 91:*

Control units incorporating a programmer shall not automatically switch to the high heat output more than once in a 24 h period. Such control units shall incorporate a neon indicator or similar visual means to indicate when the unit is in the stand-by mode.

Page 95

24 Components

24.1 *Add the following text to the text of the first paragraph on page 97:*

Switches are tested for 6.000 cycles of operation.

Page 99

25 Supply connection and external flexible cords

25.11 *Replace on page 109 the penultimate paragraph by:*

For the measurement of the longitudinal displacement, a mark is made on the cord while it is subjected to the pull, as close as possible to the cord anchorage.

25.14 *Replace on page 113 the second note by:*

- 2 When the interconnection cord consists of a heating element within a sleeve, the requirements related to current density and to IEC 227 do not apply.

Page 131

30 Resistance to heat, fire and tracking

30.2 *Replace in amendment 1 the text of the test by:*

A sample of the heating element or internal wiring at least 150 mm long is supported by a grid which is inclined at 45°. The grid is formed from parallel wires 0,6 mm in diameter and spaced 20 mm apart. The sample is perpendicular to the wires which are positioned horizontally, and is placed midway between two grid wires which are parallel to it. A second grid of similar dimensions is placed on top of the sample so that its horizontal wires are displaced by 10 mm.

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The grid is mounted at the centre of a three-sided metal screen in a substantially draught-free location. The screen is approximately 900 mm high, 450 mm wide and 300 mm deep, of rectangular plan with open front and closed top.

A needle flame, as specified in IEC 695-2-2, is applied to the sample and is maintained until the insulation ceases to burn.

The length of the heating element or internal wiring damaged by fire shall not exceed 65 mm, measured from the point where the flame is applied.

Page 139

31 Resistance to rusting

31.1 *Replace the first paragraph of the test specification by:*

All grease is removed from the relevant parts by immersion in an appropriate cleansing agent.