
Safety of electrically heated blankets, pads and similar flexible heating appliances for household use (IEC 967:1988, 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

<https://standards.iteh.ai/catalog/standards/sist/0eb1f071-4bfa-42dd-9e4d-9b99c6a36ff8/sist-en-60967-1995>

Ta slovenski standard je istoveten z: EN 60967:1990/A51:1994

ICS:

97.030	Električni aparati za dom na splošno	Domestic electrical appliances in general
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SIST EN 60967:1995**en**

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EUROPEAN STANDARD
NORME EUROPEENNE
EUROPAISCHE NORM

EN 60967

September 1990

UDC 64.06-83:644.194:620.1:614.8

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 967:1988, modified)

Sécurité des couvertures, coussins et appareils chauffants souples analogues pour usage domestique, chauffés électriquement (CEI 967:1988, modifiée)	Sicherheit elektrischer Wärmedecken, Heizkissen und ähnlicher schmiegsamer Heizgeräte für den Hausgebrauch (IEC 967:1988, modifiziert)
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CENELEC members are the national electrotechnical committees of Austria, Belgium, 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 Bréderode 2, B - 1000 Brussels

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Ref. No. EN 60967:1990 E

BRIEF HISTORY

The proposal to endorse the first edition of IEC Publication 967, document CLC/TC 61 (SEC) 542, was circulated under the enquiry procedure in April 1987.

This proposal was discussed during the Brussels meeting in December 1987 when it was decided to circulate a draft for EN 60967 to the voting procedure. This procedure started in September 1988.

A proposal for amending the standard was discussed during the Neusiedl meeting in May 1988 when it was decided to circulate a draft for an amendment to EN 60967 under the enquiry procedure, document CLC/TC 61 (SEC) 664 of October 1988, and to submit it also to the voting procedure. The latter procedure started in January 1989.

The texts of both drafts were ratified by the CENELEC Technical Board on the 11th of September 1989 and are combined in EN 60967.

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FOREWORD.

R This European Standard has been prepared by the Secretariat of CENELEC Technical Committee 61.

The following dates are applicable:

- date of announcement (doa) 1990-03-01
- date of latest publication (dop) 1990-09-01
- date of withdrawal of conflicting national standards (dow) 1991-09-01

For products which have complied with the relevant national standard before 1991-09-01, as shown by the manufacturer or by a certification body, this previous standard may continue to apply for production until 1996-09-01.

This document supplements or modifies the corresponding clauses of IEC 967:1988, so as to convert that standard into the European Standard EN 60967.

Subclauses which are in addition to those in IEC 967 are numbered starting with 501.

Special national conditions (snc) causing a deviation from this European Standard are listed in annex ZX, which forms part of this standard.

National deviations from this European Standard are listed in annex ZY, which does not form part of this standard.

The following publications are quoted in this standard:

- | | |
|---------------|---|
| EN 60238 | Edison screw lampholders. |
| EN 60320-1 | Appliance couplers for household and similar general purposes. |
| EN 60335-2-32 | Particular requirements for massage appliances. |
| EN 60742 | Isolating transformers and safety isolating transformers - Requirements. |
| HD 21 | Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V. |
| HD 65.1 | Lamp caps and holders together with gauges for the control of interchangeability and safety. |
| HD 109 | Cartridge fuse-links for miniature fuses. |
| HD 195 | Safety requirements for mains operated electronic and related apparatus for household and similar general use. |
| HD 214 | Method for determining the comparative and the proof tracking indices of solid insulating materials under moist conditions. |
| HD 495 | Spring-operated impact-test apparatus and its calibration. |
| HD 566 | Recommendations for the classification of materials for the insulation of electrical machinery and apparatus in relation to their thermal stability in service (first edition). |
| IEC 83 | Plugs and socket-outlets for domestic and similar general use - Standards. |
| IEC 328 | Switches for appliances. |
| IEC 384-14 | Fixed capacitors for use in electronic equipment. Part 14: Sectional specification: Fixed capacitors for radio interference suppression. Selection of methods of test and general requirements. |

Note 1. Where reference is made to other harmonized standards, the latest edition of that standard is applicable.

Note 2. Compulsory approval of appliances with regard to safety is legally required in Sweden and with regard to safety and to radio and television interference suppression is legally required in Finland, Norway and Switzerland.

r The following print types are used:
R - requirements: in roman type (indicated in this document in the margin by R);
i - test specifications: in italic type (indicated in this document in the margin by i);
r - explanations: in small roman type (indicated in this document in the margin by r).

Instructions for modification of the reference document are in italic type and are indicated in this document in the margin by i.

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ENDORSEMENT NOTICE

R IEC 967:1988 applies, taking into account the following common modifications.

COMMON MODIFICATIONS

i Foreword Delete.

Preface Delete.

1. SCOPE

i 1.1 Replace "IEC Publication 335-2-32" by "EN 60335-2-32".

2. DEFINITIONS

i 2.2.28 Replace this definition by "Void".

4. GENERAL NOTES ON TESTS

i 4.6 Add:

Refer snc.

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i 4.11 Delete "Class 0 or".

5. RATING

i 5.1 Delete "Class 0 and".

Add:

R 5.501 Single-phase appliances intended to be connected directly to the supply mains, shall have a rated voltage covering their use at 220 V or 230 V and a rated frequency covering their use at 50 Hz.

i Compliance is checked by inspection.

r Refer snc.

6. CLASSIFICATION

i 6.1 Delete the line referring to Class 0 appliances.

COMMON MODIFICATIONS

7. **MARKING**
- i 7.7 Add:
- r Refer snc:
11. **HEATING**
- i 11.6 On page 41, in note 2), replace "IEC Publication 85" by "HD 566".
- On page 43, in note 4), replace "IEC standards" by "European or IEC standards".
13. **ELECTRICAL INSULATION AND LEAKAGE CURRENT AT OPERATING TEMPERATURE**
- i 13.4 Delete the line referring to Class 0 flexible parts.
16. **INSULATION RESISTANCE AND ELECTRIC STRENGTH**
- i 16.3 Delete the line referring to Class 0 appliances.
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21. **MECHANICAL STRENGTH**
- i 21.17 In the last explanation, replace "IEC Publication 817" by "HD 495".
22. **CONSTRUCTION**
- i 22.1 Replace this subclause by:
- R The appliances shall be of Class II or Class III.
- i Compliance is checked by inspection and by the relevant tests.
- 22.15 Delete the explanation.
- 22.17 Replace the first sentence by:
- R Under-blankets, other than those having a ruck-resistance exceeding 1.2, as determined during the test of subclause 22.16, shall be provided with means to prevent rucking.
- i 22.24 Replace "IEC Publication 227" by "HD 21".

COMMON MODIFICATIONS

24. **COMPONENTS**
- i 24.1 In the first paragraph, replace "IEC standards" by "European or IEC standards".
- Replace "IEC Publication 742" by "EN 60742".
- Replace "IEC Publication 61-1" by "HD 65.1" (in two places).
- Replace "IEC Publication 238" by "EN 60238".
- In the eighth paragraph, delete "IEC".
- In the first explanation, replace "an IEC standard" by "a European standard".
- In the third explanation, delete "IEC".
- 24.3 Replace "IEC Publication 320" by "EN 60320-1".
- 24.4 Replace "IEC Publication 320" by "EN 60320-1".
- 24.8 Replace the first paragraph by:
- R Class II (standard.itech.ai) appliances shall be provided with an all-pole switch in their supply circuit.
- <https://standards.itech.ai/catalog/standards/sist/0eb1f071-4bfa-42dd-9e4d-9b99c0a30bc/sist-en-60967-1995>
25. **SUPPLY CONNECTION AND EXTERNAL FLEXIBLE CORDS**
- i 25.1 Delete "Class 0 or".
- 25.4 Add:
- r Refer snc.
- i 25.5 Replace "227 IEC 52" by "H03 VV-F or H03 VVH2-F".
- 25.7 Replace "IEC Publication 227" by "HD 21".
- 25.10 On page 107, replace the paragraph referring to type M, type Y and type Z attachments by:
- R For type M, type Y and type Z attachments of Class II appliances, the cores of the power supply cord shall be insulated from accessible metal parts by supplementary insulation.
- i Delete the line referring to the sheath of the cord for Class 0 appliances.
- 25.14 Replace "IEC Publication 227" by "HD 21" (in three places).

COMMON MODIFICATIONS

- 30 **RESISTANCE TO HEAT, FIRE AND TRACKING**
- i 30.6 Delete the last explanation.
- Appendix A **THERMAL CONTROLS**
- i A4 Delete the explanation.
- Appendix B **ELECTRONIC CIRCUITS**
- i B11.6 Replace "IEC Publication 65" by "HD 195".
- B19.101 Replace "IEC Publication 127-3" by "HD 109".
 Replace "IEC Publication 65" by "HD 195".
- B19.103 Replace "IEC Publication 65" by "HD 195".
- B19.104 Replace "IEC Publication 127-3" by "HD 109" (in two places).
- B22.101 Replace "IEC Publication 65" by "HD 195".
- B29.1 Replace "IEC Publication 112" by "HD 214".

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ANNEX ZX (normative)**SPECIAL NATIONAL CONDITIONS**

R The following special national conditions exist in the countries mentioned; in general, they are due to the electricity supply system and the wiring rules.

4.6 FINLAND AND NORWAY

The tests are based on the most unfavourable system voltage between 220 V and 230 V.

5.501 SPAIN

A rated voltage covering the use at 127 V is also allowed.

UNITED KINGDOM

A rated voltage covering the use at 240 V is required.

7.7 UNITED KINGDOM**iTeh STANDARD PREVIEW**
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For Class II appliances fitted with a power supply cord, the instruction sheet shall give instructions for the correct connection of a plug making it clear that neither wire is to be connected to the earth terminal of a three-pin plug.

For appliances fitted with a 13 A non-rewireable plug, the following information shall be included in the instruction sheet:

1. Instruction to dispose of a plug that has been cut from the power supply cord and a warning of the shock hazard should such a plug be inserted in a 13 A socket-outlet elsewhere in the house.
2. Instructions that the fuse cover must be refitted when changing the fuse and that, if the fuse cover is lost, the plug must not be used until a replacement is obtained.
Alternatively, instruction to never use the plug without the fuse cover fitted may be used instead.
3. Information that the correct replacement for a detachable fuse carrier is identified by marking or colour coding (as applicable to the design of the plug fitted).
4. Sources of supply of replacement fuse covers.
5. The correct value of the rated current of the fuse and instructions that replacement fuses that are ASTA approved to BS 1362 should be fitted.

25.4 SWITZERLAND

- R Power supply cords of single-phase portable appliances having a rated current not exceeding 10 A, shall be provided with a plug complying with SEV/ASE 1011.

UNITED KINGDOM

Plugs according to the Standards of Group C in IEC 83 are not allowed.

Appliances delivered with a power supply cord are not required to be fitted with a plug, but if a plug is fitted, it shall comply with BS 1363.

In the case of a flat twin tinsel cord, the plug shall be non-rewireable and shall comply with an appropriate standard, for example BS 4573.

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ANNEX ZY (informative)**National deviations**

R This document was compiled by CENELEC Technical Committee 61. It contains national deviations from the content of the European Standard EN 60967. These deviations could not yet be removed and are only applicable in the countries concerned.

1. NATIONAL DEVIATIONS DUE TO LEGAL REQUIREMENTS**7.7 FINLAND** (Resolution of the Ministry of Trade and Industry on Electrical Safety Regulations 205/74)

The instruction sheet shall also contain the substance of the following information:

- for appliances with type M attachment:
If the power supply cord of this appliance is damaged, it must be replaced by the special cord (quote the appropriate reference);
- for appliances with type Y attachment:
If the power supply cord of this appliance is damaged, it must only be replaced in a repair shop appointed by the manufacturer, because special purpose tools are required.

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EUROPEAN STANDARD
NORME EUROPEENNE
EUROPÄISCHE NORM

EN 60967/A1

April 1993

UDC 64.06-83:644.194:620.1:614.8

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

Amendment A1 to the English version of EN 60967

**SAFETY OF ELECTRICALLY HEATED BLANKETS, PADS AND
SIMILAR FLEXIBLE HEATING APPLIANCES FOR HOUSEHOLD USE**
(Amendment 1:1991 to IEC 967:1988, modified)

Sécurité des couvertures,
coussins et appareils
chauffants souples analogues
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Sicherheit elektrischer Wärme-
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schmiegsamer Wärmegeräte für
den Hausgebrauch
(Änderung 1:1991 zu
IEC 967:1988, modifiziert)

iTeh STANDARD PREVIEW

This amendment A1 modifies the European Standard EN 60967:1990. It was approved by CENELEC on 9 March 1993. 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.

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