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Glödlampor – Säkerhet – Del 1: Glödlampor för hushållsbruk och liknande användning

Safety specification for incandescent lamps –

Part 1: Tungsten filament lamps for domestic and similar general lighting purposes

Som svensk standard gäller europastandarden EN 60432-1:2000. Den svenska standarden innehåller den officiella engelska språkversionen av EN 60432-1:2000.

Nationellt förord

Europastandarden EN 60432-1:2000^{*)}

består av:

- **europastandardens ikraftsättningsdokument**, utarbetat inom CENELEC
- **IEC 60432-1, Second edition, 1999 - Safety specification for incandescent lamps - Part 1: Tungsten filament lamps for domestic and similar general lighting purposes**

utarbetad inom International Electrotechnical Commission, IEC.

Tidigare fastställd svensk standard SS-EN 60432-1, utgåva 1, 1995, SS-EN 60432-1/A1, utgåva 1, 1997 och SS-EN 60432-1/A2, utgåva 1, 1997, gäller ej fr o m 2003-01-01.

^{*)} EN 60432-1:2000 ikraftsattes 2000-03-31 som SS-EN 60432-1, utan återgivning av IEC-standarderna.

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EUROPEAN STANDARD

EN 60432-1

NORME EUROPÉENNE

EUROPÄISCHE NORM

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Supersedes EN 60432-1:1994 and its amendments

English version

Incandescent lamps - Safety specifications
Part 1: Tungsten filament lamps for domestic and
similar general lighting purposes
(IEC 60432-1:1999, modified)

Lampes à incandescence
Prescriptions de sécurité
Partie 1: Lampes à filament de
tungstène pour usage domestique
et éclairage général similaire
(CEI 60432-1:1999, modifiée)

Glühlampen - Sicherheitsanforderungen
Teil 1: Glühlampen für den
Hausgebrauch und ähnliche allgemeine
Beleuchtungszwecke
(IEC 60432-1:1999, modifiziert)

This European Standard was approved by CENELEC on 2000-01-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard 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 European Standard 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

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SEK Svensk Elstandard

Foreword

The text of document 34A/873/FDIS, future edition 2 of IEC 60432-1, prepared by SC 34A, Lamps, of IEC TC 34, Lamps and related equipment, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC, together with the common modifications of the previous edition, as EN 60432-1 on 2000-01-01.

This European Standard supersedes EN 60432-1:1994, with its corrigendum April 1995 and its amendments A1:1997 and A2:1997.

The following dates were fixed:

- latest date by which the EN has to be implemented
at national level by publication of an identical
national standard or by endorsement (dop) 2000-10-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2003-01-01

Annexes designated "normative" are part of the body of the standard.
Annexes designated "informative" are given for information only.
In this standard, annexes A to J and ZA are normative and annex K is informative.
Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 60432-1:1999 was approved by CENELEC as a European Standard with agreed common modifications as given below.

COMMON MODIFICATIONS

Lamps with the following caps are excluded from this European Standard as they do not comply with European safety requirements.

E12
E17
E26

Annex ZA (normative)

**Normative references to international publications
with their corresponding European publications**

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

NOTE: When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60061-1 + supplements (mod)	1969	Lamp caps and holders together with gauges for the control of interchangeability and safety Part 1: Lamp caps	EN 60061-1 + amendments	1993
IEC 60061-3 + supplements (mod)	1969	Part 3: Gauges	EN 60061-3 + amendments	1993
IEC 60064 (mod)	1993	Tungsten filament lamps for domestic and similar general lighting purposes Performance requirements	EN 60064	1995
IEC 60360	1998	Standard method of measurement of lamp cap temperature rise	EN 60360	1998
IEC 60410	1973	Sampling plans and procedures for inspection by attributes	-	-
IEC 60432-2	1999	Incandescent lamps - Safety specifications Part 2: Tungsten halogen lamps for domestic and similar general lighting purposes	EN 60432-2	2000
IEC 60598-1 (mod)	1996	Luminaires Part 1: General requirements and tests	EN 60598-1 + corr. June + A12 + A13	1997 1999 1998 1999
IEC 60887	1988	Glass bulb designation system for lamps	-	-
ISO 3951	1989	Sampling procedures and charts for inspection by variables for percent non-conforming	-	-

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INCANDESCENT LAMPS – SAFETY SPECIFICATIONS –

Part 1: Tungsten filament lamps for domestic and similar general lighting purposes

1 General

1.1 Scope

International Standard IEC 60432-1 specifies the safety and interchangeability requirements of tungsten filament incandescent lamps for general lighting service having:

- rated wattage up to and including 200 W;
- rated voltage of 50 V to 250 V inclusive;
- bulbs of the A, B, C, G, M, P, PS, PAR or R shapes* , or other bulb shapes where the lamps are intended to serve the same purpose as lamps with the foregoing bulb shapes;
- bulbs with all kinds of finishes;
- caps B15d, B22d, E12, E14, E17, E26** , E26d, E26/50×39, E27 or E27/51×39.

As far as is reasonably practicable, this standard is also applicable to lamps with bulbs and caps other than those mentioned above, but which serve the same purpose.

This standard specifies the method a manufacturer should use to show that his product conforms to this standard on the basis of whole production appraisal in association with his test records on finished products. This method can also be applied for certification purposes. Details of a batch test procedure which can be used to make limited assessment of batches are also given.

This standard is concerned with safety criteria only and does not take into account the performance of tungsten filament lamps with respect to luminous flux, life or power consumption characteristics. Readers should refer to IEC 60064 for such characteristics with respect to types normally used for general lighting service.

* See IEC 60887 for description of the letter symbols. Associated traditional names are:

- | | |
|-----------------------|---------------------------|
| – Pear shape | = A, PS |
| – Mushroom | = M |
| – Candle | = B, C (in North America) |
| – Round bulb | = P |
| – Globular | = G |
| – Reflector | = R |
| – Parabolic reflector | = PAR |

** There are two variations of E26 caps which are not fully compatible. In this standard separate references are made to E26/24 caps used in North America and E26/25 caps used in Japan.

1.2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of IEC and ISO maintain registers of currently valid International Standards.

IEC 60061-1: *Lamp caps and holders together with gauges for the control of interchangeability and safety – Part 1: Lamp caps*

IEC 60061-3: *Lamp caps and holders together with gauges for the control of interchangeability and safety – Part 3: Gauges*

IEC 60064: *Tungsten filament lamps for domestic and similar general lighting purposes. Performance requirements*

IEC 60360: *Standard method of measurement of lamp cap temperature rise*

IEC 60410: *Sampling plans and procedures for inspection by attributes*

IEC 60432-2: *Incandescent lamps – Safety specification – Part 2: Tungsten halogen lamps for domestic and similar general lighting purposes*

IEC 60598-1: *Luminaires – Part 1: General requirements and tests*

IEC 60887: *Glass bulb designation system for lamps*

ISO 3951: *Sampling procedures and charts for inspection by variables for percent non-conforming*