STANDARDISERINGEN I SVERIGE
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SVENSK STANDARD SS-EN 61 547

Handläggande organ	Fastställd	Utgåva	Sida	Ingår i
Svenska Elektriska Kommissionen, SEK	1996-01-12	1	1 (1+13)	SEK Översikt 34

Registrering
Reg 431 01 97

Belysningsmateriel för allmän användning - Elektromagnetisk kompatibilitet (EMC) - Immunitet

Equipment for general lighting purposes - EMC immunity requirements

Som svensk standard gäller europastandarden EN 61547: 1995. Den svenska standarden innehåller den officiella engelska språkversionen av EN 61547: 1995.

Nationellt förord

Europastandarden EN 61547: 1995

består av:

- **europastandardens** ikraftsättningsdokument, utarbetat inom CENELEC

- **IEC 1547, First edition, 1995 - Equipment for general lighting purposes - EMC immunity requirements**

utarbetad inom International Electrotechnical Commission, IEC.

ICS 29.020; 29.140.00

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Prisgrupp P

Tryckt i april 1996

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 61547

October 1995

ICS 29.020; 29.140.00

Descriptors: Lighting equiment, luminaire, lamp, connection, elactric supply, low voltage, electromagnetic immunity, test, performance, electrostatic discharge test, conformity assessment, test conditions

English version

Equipment for general lighting purposes EMC immunity requirements

(IEC 1547:1995)

Equipments pour l'éclairage à usage général
Prescriptions concernant l'immunité CEM
(CEI 1547:1995)

Einrichtung für allgemeine Beleuchtungszwecke
EMV-Störfestigkeitsanforderungen
(IEC 1547:1995)

This European Standard was approved by CENELEC on 1995-09-20. 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, 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

Ref. No. EN 61547:1995 E

1995-10-31

Foreword

The text of document 34/39/DIS, future edition 1 of IEC 1547, prepared by IEC TC 34, Lamps and related equipment, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61547 on 1995-09-20.

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) 1996-07-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 1996-07-01

Annexes designated "normative" are part of the body of the standard.
In this standard, annex ZA is normative.
Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 1547:1995 was approved by CENELEC as a European Standard without any modification.

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.

Publication	Year	Title	EN/HD	Year
IEC 50(161)	1990	International electrotechnical vocabulary (IEV) Chapter 161: Electromagnetic compatibility	-	-
IEC 50(845)	1987	Chapter 845: Lighting	-	-
[EC 598-1 (mod)	1992	Luminaires Part 1: General requirements and tests	EN 60598-1	1993
IEC 598-2-22 (mod)	1990	Part 2: Particular requirements Section 22: Luminaires for emergency lighting	EN 60598-2-22	1990
IEC 1000-4-2	1995	Electromagnetic compatibility (EMC) Part 4: Testing and measurement techniques - Section 2: Electrostatic discharge immunity test	EN 61000-4-2	1995
IEC 1000-4-3	1995	Section 3: Radiated, radio-frequency, electromagnetic field immunity test	-	-
IEC 1000-4-4	1995	Section 4: Electrical fast transient/burst immunity test	EN 61000-4-4	1995
IEC 1000-4-5	1995	Section 5: Surge immunity test	EN 61000-4-5	1995
IEC/DIS 1000-4-6	-	Section 6: Immunity to conducted disturbances, induced by radio-frequency fields	-	-
IEC 1000-4-8	1993	Section 8: Power frequency magnetic field immunity test	EN 61000-4-8	1993
IEC 1000-4-11	1994	Section 11: Voltage dips, short interruptions and voltage variations immunity tests	EN 61000-4-11	1994

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CONTENTS

EQUIPMENT FOR GENERAL LIGHTING PURPOSES – EMC IMMUNITY REQUIREMENTS

1 Scope

This International Standard for electromagnetic immunity requirements applies to lighting equipment which is within the scope of IEC technical committee 34, such as lamps, auxiliaries and luminaires, intended either for connecting to a low voltage electricity supply or for battery operation.

Excluded from the scope of this standard is equipment for which the immunity requirements are formulated in other IEC or CISPR standards such as:

- lighting equipment for use in transport vehicles;
- entertainment lighting control equipment for professional purposes;
- lighting devices built-in other equipment such as:
  - scale illumination or indicators;
  - photocopiers;
  - slide and overhead projectors;
  - video display units.

However, in multi-function equipment where the lighting part operates independently from other parts, the lighting part shall comply with the requirements of this standard.

The requirements of this standard are based on the requirements for domestic, commercial and light-industrial environments as given in the future IEC 1000-6-1 [1)], but modified to lighting engineering practice.

It can be expected that lighting equipment complying with the requirements of this standard will operate satisfactorily in other environments. In some special cases measures have to be taken to provide greater immunity. It is impracticable to deal with all these possibilities. Such requirements may be established by contractual agreement between supplier and purchaser.

This standard shall be read in conjunction with the relevant basic and/or product standard(s).

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All normative documents are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions to the normative documents indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

IEC 50(161): 1990, *International Electrotechnical Vocabulary – (IEV) Chapter 161: Electromagnetic Compatibility*
IEC 50(845): 1987, *International Electrotechnical Vocabulary – (IEV) Chapter 845: Lighting*

[1)] At present at stage of document 77(sec) 141