

STN	Svetelné zdroje LED s integrovanými predradníkmi na všeobecné osvetlenie pri napätí > 50 V. Požiadavky na bezpečnosť. Zmena A1	STN EN 62560/A1 36 0292
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Self-ballasted LED-lamps for general lighting services by voltage > 50 V. Safety specifications

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 12/15

STN EN 62560 zo septembra 2013 sa bez zmeny A1 môže používať do 04. 05. 2018.

Obsahuje: EN 62560:2012/A1:2015, IEC 62560:2011/AMD1:2015

121982

Úrad pre normalizáciu, metrológiu a skúšobníctvo SR, 2016
Podľa zákona č. 264/1999 Z. z. v znení neskorších predpisov sa môžu slovenské technické normy rozmnožovať a rozširovať iba so súhlasom Úradu pre normalizáciu, metrológiu a skúšobníctvo SR.

EUROPEAN STANDARD

EN 62560:2012/A1

NORME EUROPÉENNE

EUROPÄISCHE NORM

July 2015

ICS 29.140.30

English Version

**Self-ballasted LED-lamps for general lighting services by voltage
> 50 V - Safety specifications
(IEC 62560:2011/A1:2015 , modified)**

Lampes à LED autoballastées pour l'éclairage général
fonctionnant à des tensions > 50 V - Spécifications de
sécurité
(IEC 62560:2011/A1:2015 , modifiée)

LED-Lampen mit eingebautem Vorschaltgerät für
Allgemeinbeleuchtung für Spannungen > 50 V -
Sicherheitsanforderungen
(IEC 62560:2011/A1:2015 , modifiziert)

This amendment A1 modifies the European Standard EN 62560:2012; it was approved by CENELEC on 2015-05-04. 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 CEN-CENELEC Management Centre 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 CEN-CENELEC Management Centre has the same status as the official versions.

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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

Foreword

The text of document 34A/1836/FDIS, future IEC 62560:2011/A1, prepared by SC 34A "Lamps" of IEC/TC 34 "Lamps and related equipment" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 62560:2012/A1:2015.

A draft amendment, which covers common modifications to IEC 62560:2011/A1 (34A/1836/FDIS), was prepared by CLC/TC 34A "Lamps" and approved by CENELEC.

The following dates are fixed:

- latest date by which the document has (dop) 2016-05-04
to be implemented at national level by
publication of an identical
national standard or by endorsement
- latest date by which the national (dow) 2018-05-04
standards conflicting with the document
have to be withdrawn

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

This European Standard covers the Principle Elements of the Safety Objectives for Electrical Equipment Designed for Use within Certain Voltage Limits (LVD - 2006/95/EC).

Endorsement notice

The text of the International Standard IEC 62560:2011/A1:2015 was approved by CENELEC as a European Standard with agreed common modifications.

COMMON MODIFICATIONS

CONTENTS **Add** the following annexes:
Annex ZA (normative) Normative references to international publications with their corresponding European publications

Lamps with the following caps are excluded from EN 62560:2012/A1:2015 as they do not comply with European safety requirements:

- E11;
- E12;
- E17;
- E26;
- E26d;
- E39.

Bibliography **Add** to the bibliography of EN 62560:2012 the following notes for the standards indicated:

IEC 60432-1	NOTE	Harmonized as EN 60432-1.
IEC 62471	NOTE	Harmonized as EN 62471.

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu

Modification in Annex ZA of EN 62560:2012:

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
Update the reference to IEC 61347-1:2007 as follows:				
IEC 61347-1	-	Lamp controlgear - Part 1: General and safety requirements	EN 61347-1	-

Add to the existing list the following new reference:

IEC/TR 62778	2014	Application of IEC 62471 for the assessment of blue light hazard to light sources and luminaires	-	-
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Delete from the existing list the following references:

IEC/TR 62471-2	-	Photobiological safety of lamps and lamp systems - Part 2: Guidance on manufacturing requirements relating to non-laser optical radiation safety		
IEC 60432-1	-	Incandescent lamps - Safety specifications - Part 1: Tungsten filament lamps for domestic and similar general lighting purposes	EN 60432-1	-



INTERNATIONAL STANDARD

NORME INTERNATIONALE

AMENDMENT 1
AMENDEMENT 1

Self-ballasted LED-lamps for general lighting services by voltage > 50 V – Safety specifications

Lampes à LED autoballastées pour l'éclairage général fonctionnant à des tensions > 50 V – Spécifications de sécurité





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IEC Central Office
3, rue de Varembe
CH-1211 Geneva 20
Switzerland

Tel.: +41 22 919 02 11
Fax: +41 22 919 03 00
info@iec.ch
www.iec.ch

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INTERNATIONAL STANDARD

NORME INTERNATIONALE

AMENDMENT 1
AMENDEMENT 1

Self-ballasted LED-lamps for general lighting services by voltage > 50 V – Safety specifications

Lampes à LED autoballastées pour l'éclairage général fonctionnant à des tensions > 50 V – Spécifications de sécurité

INTERNATIONAL
ELECTROTECHNICAL
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FOREWORD

This amendment has been prepared by subcommittee 34A: Lamps, of IEC technical committee 34: Lamps and related equipment.

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

FDIS	Report on voting
34A/1836/FDIS	34A/1845/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.

The committee has decided that the contents of this amendment and the base publication 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,
- withdrawn,
- replaced by a revised edition, or
- amended.

CONTENTS

Replace the title of subclause 6.2 as follows:

6.2 Bending moment and mass imparted by the lamp at the lamp holder

Replace the titles of subclauses 9.1, 9.2 and 9.3 as follows.

9.1 Requirements
9.2 Tests
9.3 Compliance criteria

Add the title of the new subclause 9.4 as follows.

9.4 Axial strength of Edison caps

Replace the titles of subclauses 13.1, 13.2 and 13.3 as follows:

13.1 General requirements
13.2 Test conditions
13.3 Compliance

Delete the titles of the existing subclauses 13.4 to 13.6.

Add the titles of new Clauses 15 to 18 along with their corresponding subclauses as follows:

- 15 Abnormal operation
- 16 Test conditions for dimmable lamps
- 17 Photobiological safety
 - 17.1 UV radiation
 - 17.2 Blue light hazard
 - 17.3 Infrared radiation
- 18 Ingress protection
 - 18.1 Requirements
 - 18.2 Tests
- 19 Information for luminaire design

Replace the title of Annex A as follows:

Annex A (informative) Information for luminaire design

Delete the title of Annex B.

Replace, in the list of figures, the titles for Figures 3 and 4 as follows.

Figure 3 – Holder for torque test on lamps with screw caps (from IEC 60432-1, Figure C.2)

Figure 4 – Holder for torque test on lamps with bayonet caps (from IEC 60432-1, Figure C.1)

Add, in the list of figures, the titles for new Figures 6, 7 and 8 as follows:

Figure 6 – Lamp not suitable for use under dust and moisture

Figure 7 – Test equipment for applying an axial force

Figure 8 – Test circuit for testing a non-dimmable lamp at a dimmer or electronic switch

Add, in the list of tables, the title for new Table 4 as follows:

Table 4 – Values for axial force

1 Scope

Add, below the existing note, a new note 2 as follows and renumber the existing note to NOTE 1:

NOTE 2 This standard includes photobiological safety.

2 Normative references

Update the reference to IEC 61347-1:2007 as follows:

IEC 61347-1:—, *Lamp controlgear – Part 1: General and safety requirements*

Add, to the existing list, the following new reference:

IEC TR 62778: 2014, *Application of IEC 62471 for the assessment of blue light hazard to light sources and luminaires*

Delete, from the existing list, the following references:

IEC/TR 62471-2, *Photobiological safety of lamps and lamp systems – Part 2: Guidance on manufacturing requirements relating to non-laser optical radiation safety*

IEC 60432-1, *Incandescent lamps – Safety specifications – Part 1: Tungsten filament lamps for domestic and similar general lighting purposes*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN