

SLOVENSKI STANDARD SIST EN 62560:2013/A11:2019

01-maj-2019

LED-sijalke za splošno razsvetljavo z vgrajeno predstikalno napravo pri napetosti nad 50 V - Varnostne specifikacije - Dopolnilo A11

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

LED-Lampen mit eingebautem Vorschaltgerät für Allgemeinbeleuchtung für Spannungen > 50 V - Sicherheitsanforderungen ANDARD PREVIEW

Lampes à DEL autoballastées pour l'éclairage général fonctionnant à des tensions > 50 V - Spécifications de sécurité https://standards.iteh.ai/catalog/standards/sist/469a59d9-3df1-4ec5-bf43-0e19a5bf908b/sist-en-62560-2013-a11-2019 Ta slovenski standard je istoveten z: EN 62560:2012/A11:2019

ICS:

29.140.30 Fluorescenčne sijalke. Sijalke Fluorescent lamps. Discharge lamps

SIST EN 62560:2013/A11:2019 en

iTeh STANDARD PREVIEW (standards.iteh.ai)

<u>SIST EN 62560:2013/A11:2019</u> https://standards.iteh.ai/catalog/standards/sist/469a59d9-3df1-4ec5-bf43-0e19a5bf908b/sist-en-62560-2013-a11-2019

EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN 62560:2012/A11

March 2019

ICS 29.140.30

English Version

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

Lampes à DEL autoballastées pour l'éclairage général fonctionnant à des tensions > 50 V - Spécifications de sécurité LED-Lampen mit eingebautem Vorschaltgerät für Allgemeinbeleuchtung für Spannungen > 50 V -Sicherheitsanforderungen

This amendment A11 modifies the European Standard EN 62560:2012; it was approved by CENELEC on 2019-05-15. 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.

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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (EN 62560:2012/A11:2019) has been prepared by CLC/TC 34 "Lamps and related equipment".

The following dates are fixed:

- latest date by which this document has to be implemented at (dop) 2019-12-26 national level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with this (dow) 2021-12-26 document have to be withdrawn

Clauses, subclauses, notes, tables, figures and annexes, which are additional to those in IEC 62560:2011 and EN 62560:2012/A1:2015 are prefixed "Z".

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

This document has been prepared under mandates given to CENELEC by the European Commission and the European Free Trade Association, and covers the Principal Elements of the Safety Objectives for Electrical Equipment Designed for Use within Certain Voltage Limits (LVD - 2014/35/EU).

For the relationship with EU Directives see informative Annex ZZA, which are integral parts of this document. (standards.iteh.ai)

<u>SIST EN 62560:2013/A11:2019</u> https://standards.iteh.ai/catalog/standards/sist/469a59d9-3df1-4ec5-bf43-0e19a5bf908b/sist-en-62560-2013-a11-2019

CONTENTS *Replace* the following annex:

Annex ZA (normative) Normative references to international publications with their corresponding European publications

Add the following annex:

Annex ZZA (informative)Relationship between this European standard and the safety objectives of Directive 2014/35/EU

1 Scope

Add at the end the following note:

NOTE Z1 Radio equipment can be part of the Self-Ballasted lamp.

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<u>SIST EN 62560:2013/A11:2019</u> https://standards.iteh.ai/catalog/standards/sist/469a59d9-3df1-4ec5-bf43-0e19a5bf908b/sist-en-62560-2013-a11-2019

7 Protection against accidental contact with live parts

After the title of Clause 7 add the following new sub clause title 7.Z1

7.Z1 General

At the end of Clause 7 add the following new sub Clauses 7.Z2, 7.Z2.1 and 7.Z2.2

7.Z2 Fixing of conductors

7.Z2.1 Requirements

The fixing of the conductors inside the lamp shall be such that, if a conductor becomes loose or detached, the conductor cannot reduce clearances or creepage distances below the values as specified in 14.

For the purpose of these requirements, it is assumed that:

- two independent fixings will not become loose or detached at the same time; and
- parts fixed by means of screws or nuts provided with self-locking washers or other means of locking are not liable to become loose or detached.

NOTE Spring washers and the like can provide satisfactory locking.

iTeh STANDARD PREVIEW 7.Z2.2 Compliance criteria

(standards.iteh.ai) Compliance is checked by inspection, by measurement or in case of doubt by applying a force of 10 N in the most unfavourable direction.

https://standards.iteh.ai/catalog/standards/sist/469a59d9-3df1-4ec5-bf43-EXAMPLE Constructions regarded as meeting the requirements include:

- close-fitting tubing (for example, a heat shrink or rubber sleeve), applied over the wire and its termination;
- conductors connected by soldering and held in place near to the termination, independently of the soldered connection;
- conductors connected by soldering and securely hooked in before soldering, provided that the hole through which the conductor is passed is not unduly large;
- conductors connected to screw terminals, with an additional fixing near to the terminal that clamps, in the case of stranded conductors, the insulation and not only the conductors;
- conductors connected to screw terminals and provided with terminators that are unlikely to become free (for example, ring lugs crimped onto the conductors), however, the pivoting of such terminators is considered; or
- short rigid conductors that remain in position when the terminal screw is loosened.

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: <u>www.cenelec.eu</u>

Publication	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	Year
IEC 60061-3	iTeh S	together with gauges for the control of interchangeability	EN 60061-3 + amendments up to A53	2011
		and safety Part 3: Gauges iteh a		
IEC 60360	-	Standard method of measurement of lamp cap	ÉN 60360	1998
		temperature rise hav catalog standards/sist/469a59c		4004
IEC 60529	1989.9	Degreesist-of625protection 1 provided by enclosures (IP Code)	+ corr. May	1991 1993
IEC 60598-1 (mod)	2008	Luminaires - Part 1: General requirements and tests	EN 60598-1	2008
			+ A11	2009
IEC 60695-2-10	2000	Fire hazard testing - Part 2–10: Glowing/hot- wire based test methods - Glow-wire apparatus and common test procedure	EN 60695-2-10	2001
IEC 60695-2-11 + corr. January	2000 2001	Fire hazard testing - Part 2–11: Glowing/hot- wire based test methods - Glow-wire flammability test method for end products	EN 60695-2-11	2001
IEC 60695-2-12	2000	Fire hazard testing - Part 2–12: Glowing/hot- wire based test methods - Glow-wire flammability test method for materials	EN 60695-2-12 ¹⁾	2001

¹⁾ EN 60695-2-12 is superseded by EN 60695-2-12:2010, which is based on IEC 60695-2-12:2010.

Publication	Year	<u>Title</u>	<u>EN/HD</u>	Year
IEC 60695-2-13	2000	Fire hazard testing - Part 2–13: Glowing/hot- wire based test methods - Glow-wire ignitability test method for materials	EN 60695-2-13 ²⁾	2001
IEC 61199	1999	Single-capped fluorescent lamps - Safety specifications	EN 61199 ³⁾	1999
IEC 61347-1	2007	Lamp controlgear - Part 1: General and safety requirements	EN 61347-1	2008
IEC 62031	2008	LED modules for general lighting - Safety specifications	EN 62031	2008
IEC/TS 62504	-	General lighting - LEDs and LED modules - Terms and definitions	EN 62504	2014
ISO 4046-4	2002	Paper, board, pulps and related terms - Vocabulary -	-	-
	iTeh S	Part 4: Paper and board grades and converted	EVIEW	
IEC/TR 62778	2014 https://standards.ite 0e19	products Application of IEC 62471 for the assessment of blue light Enhazard ²⁰¹ to ^{A1} light ² sources and luminaires ^{9a590} a5bf908b/sist-en-62560-2013-a11	19-3df1-4ec5-bf43-	-

²⁾ EN 60695-2-13 is superseded by EN 60695-2-13:2010, which is based on IEC 60695-2-13:2010 + corrigendum Feb. 2012.

³⁾ EN 61199 is superseded by EN 61199:2011, which is based on IEC 61199:2011.

Annex ZZA (informative)

Relationship between this European standard and the safety objectives of Directive 2014/35/EU [2014 OJ L96] aimed to be covered

This European Standard has been prepared under a Commission's standardization request relating to harmonized standards in the field of the Low Voltage Directive, M/511, to provide one voluntary means of conforming to safety objectives of Directive 2014/35/EU of the European Parliament and of the Council of 26 February 2014 on the harmonization of the laws of the Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits [2014 OJ L96].

Once this standard is cited in the Official Journal of the European Union under that Directive, compliance with the normative clauses of this standard given in Table ZZA.1 confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding essential requirements of that Directive, and associated EFTA regulations.

Safety Objectives of Directive 2014/35/EU [2014 OJ L96]	Clause(s)7 subclause(s) of this EN (standards.iteh.ai)	Remarks / Notes
1 (a) https://standards.	Clause 5 Clause 5 tteh.at/catalog/standards/sist/469a59d9-3df1-4ec5-bf	None 43-
0e1	9a5bf908b/sist-en-62560-2013-a11-2019 Clause 4, 19	None
1 (c)	See items 2 and 3 of this table	None
2 (a)	Clause 6, 7, 8, 9, 11, 12, 13, 14	None
2 (b)	Clause 6, 8, 9, 10, 11, 12, 13, 17, 19	EMF is not covered in this standard
2 (c)	Clause 6, 8, 9, 11, 12, 13	None
2 (d)	Clause 6, 7, 8, 9, 11, 12, 13, 14	None
3 (a)	Clause 6, 7, 8, 9, 11, 12, 13	None
3 (b)	Clause 6, 8, 9, 11, 12, 13, 14	None
3 (c)	Clause 6, 8, 9, 10, 11, 12, 13, 14	None

Table ZZA.1 – Correspondence between this European standard and Article 3 of Directive 2014/35/EU [2014 OJ L96]