



SLOVENSKI STANDARD
SIST EN 62612:2014/A1:2017
01-september-2017

LED-sijalke za splošno razsvetljavo z vgrajeno predstikalno napravo pri napajalni napetosti nad 50 V - Tehnične zahteve - Dopolnilo A1 (IEC 62612:2013/A1:2015)

Self-ballasted LED lamps for general lighting services with supply voltages > 50 V - Performance requirements (IEC 62612:2013/A1:2015)

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ICS:

29.140.01 Žarnice na splošno Lamps in general

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EUROPEAN STANDARD

EN 62612:2013/A1

NORME EUROPÉENNE

EUROPÄISCHE NORM

June 2017

ICS 29.140.01

English Version

Self-ballasted LED lamps for general lighting services
with supply voltages > 50 V -
Performance requirements
(IEC 62612:2013/A1:2015)

Lampes à LED autoballastées pour l'éclairage général
avec des tensions d'alimentation > 50 V -
Exigences de performances
(IEC 62612:2013/A1:2015)

LED-Lampen mit eingebautem Vorschaltgerät für
Allgemeinbeleuchtung mit Versorgungsspannungen > 50 V -
Anforderungen an die Arbeitsweise
(IEC 62612:2013/A1:2015)

This amendment A1 modifies the European Standard EN 62612:2013; it was approved by CENELEC on 2015-12-02. 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

EN 62612:2013/A1:2017**European foreword**

The text of document 34A/1824/CDV, future IEC 62612:2013/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 62612:2013/A1:2017.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2017-12-30
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2020-06-30

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For the relationship with EU Directive(s) see informative Annexes ZZA, ZZB and ZZC, included in EN 62612:2013/A1:2017.

[SIST EN 62612:2014/A1:2017](https://standards.iteh.ai/catalog/standards/sist/c51225f7-2c5e-4cfb-a67e-34d4021795d6/sist-en-62612-2013-a1-2017)
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Endorsement notice

The text of the International Standard IEC 62612:2013/A1:2015 was approved by CENELEC as a European Standard without any modification.



IEC 62612

Edition 1.0 2015-10

INTERNATIONAL STANDARD

NORME INTERNATIONALE

AMENDMENT 1
AMENDEMENT 1

Self-ballasted LED lamps for general lighting services with supply voltages
> 50 V – Performance requirements

Lampes à LED autoballastées pour l'éclairage général avec des tensions
d'alimentation > 50 V – Exigences de performances

INTERNATIONAL
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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:

| | |
|--------------|------------------|
| CDV | Report on voting |
| 34A/1824/CDV | 34A/1854/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 website 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.

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1 Scope

Add, at the end of the scope, the following new text:

It can be expected that self-ballasted LED lamps, which comply with this standard will start and operate satisfactorily at voltages between 92 % and 106 % of rated supply voltage and at an ambient air temperature between –20 °C and 40 °C and in a luminaire complying with IEC 60598-1.

If a supplier claims suitability for operation at different conditions (for instance, at higher voltage, temperature or humidity) then:

- Lamps shall be tested under claimed different conditions; and
- Lamps shall start and operate satisfactorily under claimed different conditions; and
- Lamps shall meet the performance claims under the claimed different conditions, which may differ from the general conditions for measurement specified in A.1.

9.1 Luminous flux

Add, at the beginning of 9.1, the following new text:

For non-directional LED lamps, the rated luminous flux should be preferably be one of the following values:

100 lm, 150 lm, 250 lm, 350 lm, 500 lm, 800 lm, 1000 lm, 1500 lm, 2000 lm, 3000 lm.

NOTE In Japan, the rated luminous flux categories and indication are specified in JIS C 8158:2012.

A.1 General

Replace items b) and c) with the following new text:

- b) During the stabilization, measurements of luminous flux or luminous intensity and electrical lamp power are made at least at an interval of 1 min. The LED lamp shall be operated for at least 30 min and it is considered stable and suitable for test purpose, if the relative difference of maximum and minimum readings of light output and electrical power observed over the last 15 minutes is less than 0,5 % of the minimum reading. If the LED lamp is pre-burned, it does not need to be operated for 30 min, and it is considered stable if the readings of the last 15 min meet above requirement.

If the LED lamp exhibits large fluctuations and stabilization conditions are not achieved within 45 min of operation due to the fluctuations, the measurement may be started and the observed fluctuations shall be reported. However if, instead of random fluctuations, a slow decrease of gradient in the measured values is still observed, then the measurements should be started only when the stabilization criteria are met.

NOTE 1 Normally the observed stabilization process is a slow decrease in light output until thermal stability is reached. However, due to the electronics, fluctuations can still occur near thermal stability.

- c) The stabilization is strongly related to thermal equilibrium of the components. A pre-burning (operation of the light source prior to mounting in the measurement system) may be applied to reduce the stabilization time in the measurement system. In particular for measurement of a number of products of the same type, measurement time may be reduced if it has been demonstrated that the pre-burning method produces the same stabilized condition as when using the normal procedure.

Delete item d).

Renumber Notes 1 and 2 to A.1 as Notes 2 and 3

Bibliography

Add, after the existing reference to "JIS C 8155", a new reference as follows:

JIS C 8158:2012, *Self-ballasted LED-lamps for general lighting services by voltage > 50 V*
