
Energijske lastnosti krmilne naprave sijalke - 1. del: Krmilna naprava za fluorescentne sijalke - Merilna metoda za ugotavljanje celotne vhodne moči krmilnih vezij in izkoristka krmilne naprave

Energy performance of lamp control gear - Part 1: Control gear for fluorescent lamps - Method of measurement to determine the total input power of control gear circuits and the efficiency of the control gear

Energieeffizienz von Lampenbetriebsgeräten - Teil 1: Betriebsgeräte für Leuchtstofflampen - Messverfahren zur Bestimmung der Gesamteingangsleistung von Betriebsgeräteschaltungen und des Wirkungsgrades von Betriebsgeräten

[SIST EN 62442-1:2012](https://standards.iteh.ai/catalog/standards/sist/0590713a-aa3d-4c38-9a18-)

Performance énergétique des appareillages de lampes - Partie 1: Appareillages des lampes à fluorescence - Méthode de mesure pour la détermination de la puissance d'entrée totale des circuits d'appareillage et du rendement des appareillages

Ta slovenski standard je istoveten z: EN 62442-1:2011

ICS:

29.140.99	Drugi standardi v zvezi z žarnicami	Other standards related to lamps
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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 62442-1

November 2011

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English version

**Energy performance of lamp controlgear -
Part 1: Controlgear for fluorescent lamps -
Method of measurement to determine the total input power of controlgear
circuits and the efficiency of the controlgear
(IEC 62442-1:2011)**

Performance énergétique des
appareillages de lampes -
Partie 1: Appareillages des lampes à
fluorescence -
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de la puissance d'entrée totale des circuits
d'appareillage et du rendement des
appareillages
(CEI 62442-1:2011)

Energieeffizienz von
Lampenbetriebsgeräten -
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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 CEN-CENELEC Management Centre has the same status as the official versions.

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CENELEC

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

Management Centre: Avenue Marnix 17, B - 1000 Brussels

Foreword

The text of document 34C/987/FDIS, future edition 1 of IEC 62442-1, prepared by SC 34C, "Auxiliaries for lamps", of IEC/TC 34, "Lamps and related equipment" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 62442-1:2011.

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) 2012-08-16
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2014-11-16

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.

Endorsement notice

The text of the International Standard IEC 62442-1:2011 was approved by CENELEC as a European Standard without any modification.

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Annex ZA (normative)

Normative references to international publications with their corresponding European publications

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

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 60081	-	Double-capped fluorescent lamps - Performance specifications	EN 60081	-
IEC 60901	-	Single-capped fluorescent lamps - Performance specifications	EN 60901	-
IEC 60921	2004	Ballasts for tubular fluorescent lamps - Performance requirements	EN 60921	2004
IEC 60929 + corr. September	2011 2011	AC and/or DC-supplied electronic control gear for tubular fluorescent lamps - Performance requirements	EN 60929	2011
IEC 61347-2-3	-	Lamp control gear - Part 2-3: Particular requirements for a.c. and/or d.c. supplied electronic control gear for fluorescent lamps	EN 61347-2-3	-
IEC 61347-2-8	-	Lamp control gear - Part 2-8: Particular requirements for ballasts for fluorescent lamps	EN 61347-2-8	-

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INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Energy performance of lamp controlgear –
Part 1: Controlgear for fluorescent lamps – Method of measurement to determine
the total input power of controlgear circuits and the efficiency of the controlgear**

**Performance énergétique des appareillages de lampes –
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INTERNATIONAL ELECTROTECHNICAL COMMISSION

ENERGY PERFORMANCE OF LAMP CONTROLGEAR –

**Part 1: Controlgear for fluorescent lamps –
Method of measurement to determine the total input power
of controlgear circuits and the efficiency of the controlgear**

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard IEC 62442-1 has been prepared by subcommittee 34C: Auxiliaries for lamps, of IEC technical committee 34: Lamps and related equipment.

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

FDIS	Report on voting
34C/987/FDIS	34C/996/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts of the IEC 62442 series, published under the general title *Energy performance of lamp controlgear*, can be found on the IEC website.

This standard has been drafted in response to support classification systems for lamp controlgear.

Consideration is being given to include in a future edition of this standard:

- Controlgear – high intensity discharge (HID) lamp circuits;
- Transformer or step-down converter – low voltage halogen lamp circuits;

The committee has decided that the contents of this 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.

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ENERGY PERFORMANCE OF LAMP CONTROLGEAR –

Part 1: Controlgear for fluorescent lamps – Method of measurement to determine the total input power of controlgear circuits and the efficiency of the controlgear

1 Scope

This part of IEC 62442 defines a measurement and calculation method of the total input power for controlgear – lamp circuits when operating with their associated fluorescent lamp(s). The calculation method for the efficiency of the lamp controlgear is also defined. This International Standard applies to electrical controlgear lamp circuits consisting only of the controlgear and the lamp(s). It is intended for use on a.c. supplies up to 1 000 V at 50 Hz or 60 Hz.

NOTE Requirements for testing individual controlgear during production are not included.

It specifies the measurement method for the total input power and the calculation method of the controlgear efficiency for all controlgear used for domestic and normal commercial purposes operating with the following fluorescent lamps:

- linear fluorescent lamps;
- single-ended (compact) fluorescent lamps;
- other general purpose fluorescent lamps.

This International Standard does not apply to:

- controlgear which form an integral part of the lamp;
- controllable wire-wound magnetic controlgear;
- luminaires, which rely on additional optical performance aspects.

2 Normative references

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

IEC 60081, *Double-capped fluorescent lamps – Performance specifications*

IEC 60901, *Single-capped fluorescent lamps – Performance requirements*

IEC 60921:2004, *Ballasts for tubular fluorescent lamps – Performance requirements*

IEC 60929:2011, *AC and/or DC-supplied electronic control gear for tubular fluorescent lamps – Performance requirements*

IEC 61347-2-3, *Lamp control gear – Part 2-3: Particular requirements for a.c. and/or d.c. supplied electronic control gear for fluorescent lamps*

IEC 61347-2-8, *Lamp controlgear – Part 2-8: Particular requirements for ballasts for fluorescent lamps*