

STN	Energetické vlastnosti ovládacích zariadení svetelných zdrojov Časť 2: Ovládacie zariadenia vysokotlakových výbojok (okrem žiariviek) Metóda merania na stanovenie účinnosti ovládacích zariadení	STN EN IEC 62442-2 36 0513
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Energy performance of lamp controlgear - Part 2: Controlgear for high intensity discharge lamps (excluding fluorescent lamps) - Method of measurement to determine the efficiency of controlgear

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. 02/19

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EUROPEAN STANDARD

EN IEC 62442-2

NORME EUROPÉENNE

EUROPÄISCHE NORM

September 2018

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English Version

**Energy performance of lamp controlgear - Part 2: Controlgear for
high intensity discharge lamps (excluding fluorescent lamps) -
Method of measurement to determine the efficiency of
controlgear
(IEC 62442-2:2018)**

Performance énergétique des appareillages de lampes -
Partie 2: Appareillages des lampes à décharge à haute
intensité (à l'exclusion des lampes à fluorescence) -
Méthode de mesure pour la détermination du rendement
des appareillages
(IEC 62442-2:2018)

Energieeffizienz von Lampenbetriebsgeräten - Teil 2:
Betriebsgeräte für Hochdruck-Entladungslampen
(ausgenommen Leuchtstofflampen) - Messverfahren zur
Bestimmung des Wirkungsgrades von Betriebsgeräten
(IEC 62442-2:2018)

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Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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

EN IEC 62442-2:2018 (E)**European foreword**

The text of document 34C/1336A/CDV, future edition 2 of IEC 62442-2, 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 IEC 62442-2:2018.

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) 2019-05-10
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2021-08-10

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The text of the International Standard IEC 62442-2:2018 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60188	NOTE	Harmonized as EN 60188.
IEC 60662	NOTE	Harmonized as EN 60662.
IEC 60923	NOTE	Harmonized as EN 60923.
IEC 61167	NOTE	Harmonized as EN 61167.
IEC 62035	NOTE	Harmonized as EN 62035.
IEC 62442-3	NOTE	Harmonized as EN 62442-3.

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 1 Where 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.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61347-1	2015	Lamp controlgear - Part 1: General and safety requirements	EN 61347-1	2015
IEC 61347-2-9	-	Lamp controlgear -- Part 2-9: Particular requirements for electromagnetic controlgear for discharge lamps (excluding fluorescent lamps)	EN 61347-2-9	-
IEC 61347-2-12	-	Lamp controlgear - Part 2-12: Particular-requirements for d.c. or a.c. supplied electronic ballasts for discharge lamps (excluding fluorescent lamps)		-
IEC Guide 115	2007	Application of uncertainty of measurement-to conformity assessment activities in the electrotechnical sector		-



IEC 62442-2

Edition 2.0 2018-05

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Energy performance of lamp controlgear –
Part 2: Controlgear for high intensity discharge lamps (excluding fluorescent
lamps) – Method of measurement to determine the efficiency of controlgear**

**Performance énergétique des appareillages de lampes –
Partie 2: Appareillages des lampes à décharge à haute intensité (à l'exclusion
des lampes à fluorescence) – Méthode de mesure pour la détermination du
rendement des appareillages**



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

ENERGY PERFORMANCE OF LAMP CONTROLGEAR –**Part 2: Controlgear for high intensity discharge lamps
(excluding fluorescent lamps) – Method of measurement
to determine the efficiency of controlgear**

FOREWORD

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International Standard IEC 62442-2 has been prepared by subcommittee 34C: Auxiliaries for lamps, of IEC technical committee 34: Lamps and related equipment.

This second edition cancels and replaces the first edition published in 2014. This edition constitutes a technical revision and has been harmonized with IEC 62442-1 and IEC 62442-3.

The text of this International Standard is based on the following documents:

CDV	Report on voting
34C/1336A/CDV	34C/1377/RVC

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

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

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

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

ENERGY PERFORMANCE OF LAMP CONTROLGEAR –

Part 2: Controlgear for high intensity discharge lamps (excluding fluorescent lamps) – Method of measurement to determine the efficiency of controlgear

1 Scope

This part of IEC 62442 defines a measurement method of the power losses of electromagnetic controlgear, the total input power and the standby power of electronic controlgear for high intensity discharge lamps (excluding fluorescent lamps). A calculation method of the efficiency of controlgear for high intensity discharge lamp(s) is also defined.

It is assumed that the controlgear are designed for use on DC supplies up to 1 000 V and/or AC supplies up to 1 000 V at 50 Hz or 60 Hz.

This document applies to electrical controlgear-lamp circuits comprised solely of the controlgear and of the lamp(s).

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

This document specifies the measurement method for the total input power, the standby power and the calculation method of the lamp controlgear efficiency for all controlgear sold for domestic and normal commercial purposes operating with high intensity discharge lamps.

This document does not apply to:

- controlgear which form an integral part of lamps;
- controlgear circuits with capacitors connected in series;
- controllable electromagnetic controlgear.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 61347-1:2015, *Lamp controlgear – Part 1: General and safety requirements*

IEC 61347-2-9, *Lamp controlgear – Part 2-9: Particular requirements for electromagnetic controlgear for discharge lamps (excluding fluorescent lamps)*

IEC 61347-2-12, *Lamp controlgear – Part 2-12: Particular requirements for d.c. or a.c. supplied electronic ballasts for discharge lamps (excluding fluorescent lamps)*

IEC Guide 115:2007, *Application of uncertainty of measurement to conformity assessment activities in the electrotechnical sector*