

STN	Energetické vlastnosti ovládacích zariadení svetelných zdrojov. Časť 2: Ovládacie zariadenia pre vysokotlakové výbojky (okrem žiaroviek). Metóda merania na stanovenie účinnosti ovládacích zariadení.	STN EN 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 the 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. 01/15

Obsahuje: EN 62442-2:2014, IEC 62442-2:2014

119913

Úrad pre normalizáciu, metrológiu a skúšobníctvo SR, odbor SÚTN, 2015
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 62442-2

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 2014

ICS 29.140.99

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 the
controlgear
(IEC 62442-2:2014)**

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
(CEI 62442-2:2014)

Energieeffizienz von Lampenbetriebsgeräten - Teil 2:
Betriebsgeräte für Hochdruck-Entladungslampen
(ausgenommen Leuchtstofflampen) - Messverfahren zur
Bestimmung des Wirkungsgrades von Betriebsgeräten
(IEC 62442-2:2014)

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Foreword

The text of document 34C/1078/FDIS, future edition 1 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 62442-2:2014.

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) 2015-02-22
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2017-05-22

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

IEC 60188	NOTE	Harmonised in EN 60188 (not modified).
IEC 60662	NOTE	Harmonised in EN 60662 (not modified).
IEC 60923	NOTE	Harmonised in EN 60923 (not modified).
IEC 61167	NOTE	Harmonised in EN 61167 (not modified).
IEC 62035	NOTE	Harmonised in EN 62035 (not modified).
IEC 62442-1:2011	NOTE	Harmonised in EN 62442-1:2011 (not modified).
IEC 62442-3	NOTE	Harmonised in EN 62442-3 (not modified).

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

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61347-1 (mod)	2007	Lamp controlgear -- Part 1: General and safety requirements	EN 61347-1	2008
+A1	2010		+A1	2011
+A2	2012		+A2	2013
IEC 61347-2-9	2012	Lamp controlgear -- Part 2-9: Particular requirements for electromagnetic controlgear for discharge lamps (excluding fluorescent lamps)	EN 61347-2-9	2013
IEC 61347-2-12	2010	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		Application of uncertainty of measurement - to conformity assessment activities in the electrotechnical sector	-	-

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 the 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
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PRICE CODE
CODE PRIX

M

ICS 29.140.99

ISBN 978-2-8322-1529-6

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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 the controlgear**

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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.

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

FDIS	Report on voting
34C/1078/FDIS	34C/1089/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.

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.

ENERGY PERFORMANCE OF LAMP CONTROLGEAR –

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

1 Scope

This part of the IEC 62442 series 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 discharged lamps (excluding fluorescent lamps). Also a calculation method of the efficiency for controlgear for high intensity discharged lamp(s) is defined.

This International Standard 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.

It 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 International Standard does not apply to:

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

2 Normative references

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.

IEC 61347-1:2007, *Lamp controlgear – Part 1: General and safety requirements*
Amendment 1:2010
Amendment 2:2012

IEC 61347-2-9:2012, *Lamp controlgear – Part 2-9: Particular requirements for electromagnetic controlgear for discharge lamps (excluding fluorescent lamps)*

IEC 61347-2-12:2010, *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*