

<b>STN</b>	<b>Energetické vlastnosti ovládacích zariadení svetelných zdrojov Časť 2: Ovládacie zariadenia výbojok (okrem nízkotlakových ortuťových žiaroviek) Metóda merania na stanovenie účinnosti ovládacích zariadení</b>	<b>STN EN IEC 62442-2</b>  36 0513
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Energy performance of lamp controlgear - Part 2: Controlgear for discharge lamps (excluding low-pressure mercury 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. 06/22

Obsahuje: EN IEC 62442-2:2022, IEC 62442-2:2022

Oznámením tejto normy sa od 16.03.2025 ruší  
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EUROPEAN STANDARD

**EN IEC 62442-2**

NORME EUROPÉENNE

EUROPÄISCHE NORM

March 2022

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Supersedes EN IEC 62442-2:2018 and all of its amendments and corrigenda (if any)

English Version

**Energy performance of lamp controlgear - Part 2: Controlgear for discharge lamps (excluding low-pressure mercury fluorescent lamps) - Method of measurement to determine the efficiency of controlgear  
(IEC 62442-2:2022)**

Performance énergétique des appareillages de lampes -  
Partie 2: Appareillages des lampes à décharge (à l'exclusion des lampes à fluorescence à vapeur de mercure à basse pression) - Méthode de mesurage pour la détermination du rendement des appareillages  
(IEC 62442-2:2022)

Energieeffizienz von Lampenbetriebsgeräten - Teil 2:  
Betriebsgeräte für Hochdruck-Entladungslampen (ausgenommen Leuchtstofflampen) - Messverfahren zur Bestimmung des Wirkungsgrades von Betriebsgeräten  
(IEC 62442-2:2022)

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## EN IEC 62442-2:2022 (E)

### European foreword

The text of document 34C/1546/FDIS, future edition 3 of IEC 62442-2, prepared by SC 34C "Auxiliaries for lamps" of IEC/TC 34 "Lighting" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 62442-2:2022.

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) 2022-12-16
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2025-03-16

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### Endorsement notice

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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 62442-1 NOTE Harmonized as EN IEC 62442-1

IEC 62442-3 NOTE Harmonized as EN IEC 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](http://www.cenelec.eu).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60050-845	-	International Electrotechnical Vocabulary (IEC) – Part 845: Lighting	-	-
IEC 61347-1	2015	Lamp controlgear - Part 1: General and safety requirements	EN 61347-1	2015
IEC 63103	2020	Lighting equipment - Non-active mode power measurement	EN IEC 63103	2020
IEC TS 63105	2021	Lighting systems and related equipment - Vocabulary	-	-
IEC Guide 115	2021	Application of uncertainty of measurement - to conformity assessment activities in the electrotechnical sector	-	-



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Edition 3.0 2022-02

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

**Energy performance of lamp controlgear –  
Part 2: Controlgear for discharge lamps (excluding low-pressure mercury  
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 l'exclusion des lampes à  
fluorescence à vapeur de mercure à basse pression) – Méthode de mesurage  
pour la détermination du rendement des appareillages**



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## CONTENTS

FOREWORD .....	3
1 Scope .....	5
2 Normative references .....	5
3 Terms and definitions .....	6
4 General .....	8
4.1 General notes on tests .....	8
4.2 Controllable controlgear .....	8
4.3 Multi-lamp type controlgear .....	8
4.4 Measurement uncertainty .....	8
4.5 Sampling of controlgear for testing .....	8
4.6 Size of the test sample .....	8
4.7 Power supply .....	8
4.8 Supply voltage waveform .....	9
4.9 Instrument accuracy .....	9
4.10 Multi-rated voltage controlgear .....	10
4.11 Sensor and network connections .....	10
5 Method of measurement of the input power and calculation of the efficiency .....	10
5.1 Measurement set-up: electromagnetic controlgear .....	10
5.2 Efficiency calculation: electromagnetic controlgear .....	11
5.3 Measurement set-up: electronic controlgear .....	11
5.4 Efficiency calculation: electronic controlgear .....	12
5.5 Standby power measurement of electronic controlgear .....	12
5.6 Networked standby power measurement of electronic controlgear .....	12
5.7 Reporting of power measurements .....	12
Bibliography .....	13
Figure 1 – Measurement set-up for electromagnetic controlgear .....	10
Figure 2 – Measurement set-up for electronic controlgear .....	11
Table 1 – Typical nominal electricity supply details for some regions .....	9



## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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

## FOREWORD

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IEC 62442-2 has been prepared by subcommittee 34C: Auxiliaries for lamps, of IEC technical committee 34: Lighting. It is an International Standard.

This third edition cancels and replaces the second edition published in 2018. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) the title of Part 2 has been modified;
- b) this edition has been harmonized with IEC 62442-1 and IEC 62442-3;
- c) the reference to and use of the measurement methods for non-active power consumption in accordance with IEC 63103 have been added.

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

Draft	Report on voting
34C/1546/FDIS	34C/1549/RVD

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

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at [www.iec.ch/members\\_experts/refdocs](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/standardsdev/publications](http://www.iec.ch/standardsdev/publications).

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 [webstore.iec.ch](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 discharge lamps (excluding low-pressure mercury 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 discharge lamps (excluding low-pressure mercury fluorescent lamps). A calculation method of the efficiency of controlgear for 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 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 60050-845, *International Electrotechnical Vocabulary (IEV) – Part 845: Lighting* (available at <http://www.electropedia.org>)

IEC 61347-1:2015, *Lamp controlgear – Part 1: General and safety requirements*

IEC 63103:2020, *Lighting equipment – Non-active mode power measurement*

IEC TS 63105:2021, *Lighting systems and related equipment – Vocabulary*

IEC Guide 115:2021, *Application of uncertainty of measurement to conformity assessment activities in the electrotechnical sector*

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