



**NSAI**  
Standards

Irish Standard  
I.S. EN 62442-3:2014&A11:2017

Energy performance of lamp controlgear -  
Part 3: Controlgear for halogen lamps and  
LED modules - Method of measurement to  
determine the efficiency of the controlgear

**I.S. EN 62442-3:2014&A11:2017**

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

EN 62442-3:2014/A11:2017

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## National Foreword

I.S. EN 62442-3:2014&A11:2017 is the adopted Irish version of the European Document EN 62442-3:2014, Energy performance of lamp controlgear - Part 3: Controlgear for halogen lamps and LED modules - Method of measurement to determine the efficiency of the controlgear

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EUROPEAN STANDARD

**EN 62442-3:2014/A11**

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2017

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ICS 29.140.99

English Version

Energy performance of lamp controlgear -  
Part 3: Controlgear for halogen lamps and LED modules -  
Method of measurement to determine the efficiency of the  
controlgear

Performance énergétique des appareillages de lampes -  
Partie 3: Appareillage de lampes à halogène et modules de  
DEL - Méthode de mesure pour la détermination du  
rendement de l'appareillage

Energieeffizienz von Lampenbetriebsgeräten -  
Teil 3: Betriebsgeräte für Halogenlampen und LED-Module -  
Messverfahren zur Bestimmung des Wirkungsgrades des  
Betriebsgerätes

This amendment A11 modifies the European Standard EN 62442-3:2014; it was approved by CENELEC on 2017-07-11. 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.

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Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**

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## **European foreword**

This document (EN 62442-3:2014/A11:2017) has been prepared by CLC/TC 34 "Lamps and related equipment".

The following dates are fixed:

- latest date by which this document has to be implemented (dop) 2018-07-11  
at national level by publication of an identical national  
standard or by endorsement
- latest date by which the national standards conflicting with (dow) 2020-07-11  
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For the relationship with EU Directive(s) see informative Annex ZZ, which is an integral part of this document.

EUROPEAN STANDARD

**EN 62442-3**

NORME EUROPÉENNE

EUROPÄISCHE NORM

July 2014

ICS 29.140.99

English Version

**Energy performance of lamp controlgear - Part 3: Controlgear for  
halogen lamps and LED modules - Method of measurement to  
determine the efficiency of the controlgear  
(IEC 62442-3:2014)**

Performance énergétique des appareillages de lampes -  
Partie 3: Appareillage de lampes à halogène et modules de  
DEL - Méthode de mesure pour la détermination du  
rendement de l'appareillage  
(CEI 62442-3:2014)

Energieeffizienz von Lampenbetriebsgeräten - Teil 3:  
Betriebsgeräte für Halogenlampen und LED-Module -  
Messverfahren zur Bestimmung des Wirkungsgrades des  
Betriebsgerätes  
(IEC 62442-3:2014)

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Europäisches Komitee für Elektrotechnische Normung

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## Foreword

The text of document 34C/1077/FDIS, future edition 1 of IEC 62442-3, 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 62442-3:2014.

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) 2015-03-01
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The text of the International Standard IEC 62442-3:2014 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 60357	NOTE	Harmonized as EN 60357.
IEC 62384	NOTE	Harmonized as EN 62384.
IEC 62442-1:2011	NOTE	Harmonized as EN 62442-1:2011 (not modified).
IEC 62442-2:—	NOTE	Harmonized as EN 62442-2:2014 (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](http://www.cenelec.eu).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61047	2004	DC or AC supplied electronic step-down convertors for filament lamps - Performance requirements	EN 61047	2004
IEC 61347-1 (mod)	2007	Lamp controlgear -	EN 61347-1	2008
+A1	2010	Part 1: General and safety requirements	+A1	2011
+A2	2012		+A2	2013
IEC 61347-2-2	-	Lamp controlgear - Part 2-2: Particular requirements for d.c. or a.c. supplied electronic step-down convertors for filament lamps	EN 61347-2-2	-
IEC 61347-2-13	-	Lamp controlgear - Part 2-13: Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules	EN 61347-2-13	-
IEC 61558-1	-	Safety of power transformers, power supplies, reactors and similar products - Part 1: General requirements and tests	EN 61558-1	-
IEC 61558-2-6	-	Safety of transformers, reactors, power supply units and similar products for supply voltages up to 1 100 V - Part 2-6: Particular requirements and tests for safety isolating transformers and power supply units incorporating safety isolating transformers	EN 61558-2-6	-
IEC Guide 115	2007	Application of uncertainty of measurement to conformity assessment activities in the electrotechnical sector	-	-

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**IEC 62442-3**

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# **INTERNATIONAL STANDARD**

# **NORME INTERNATIONALE**

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**Energy performance of lamp controlgear –  
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# **INTERNATIONAL STANDARD**

# **NORME INTERNATIONALE**

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**Energy performance of lamp controlgear –  
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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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### ENERGY PERFORMANCE OF LAMP CONTROLGEAR –

#### **Part 3: Controlgear for halogen lamps and LED modules – Method of measurement to determine the efficiency of the controlgear**

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

FDIS	Report on voting
34C/1077/FDIS	34C/1088/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,
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## ENERGY PERFORMANCE OF LAMP CONTROLGEAR –

### Part 3: Controlgear for halogen lamps and LED modules – Method of measurement to determine the efficiency of the controlgear

#### 1 Scope

This part of the IEC 62442 series defines a measurement method for the power losses of magnetic transformers and the power losses with the standby power of electronic convertor for halogen lamps and LED modules.

Also a calculation method of the efficiency for the mentioned controlgear for halogen lamps and LED modules is defined.

This part of IEC 62442 applies to electrical controlgear – lamp circuits comprised solely of the controlgear and of the lamp(s).

For multipurpose power supplies only the lighting part will be considered.

NOTE 1 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 controlgear efficiency for all controlgear sold for domestic and normal commercial purposes operating with halogen lamps and LED modules.

This part of IEC 62442 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 61047:2004, *DC or AC. supplied electronic step-down convertors for filament lamps – Performance requirements*

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

IEC 61347-2-2, *Lamp controlgear – Part 2-2: Particular requirements for d.c. or a.c. supplied electronic step-down convertors for filament lamps*

IEC 61347-2-13, *Lamp controlgear – Part 2-13: Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules*

IEC 61558-1, *Safety of power transformers, power supplies, reactors and similar products – Part 1: General requirements and tests*

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