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Standards

Irish Standard  
I.S. EN 62639:2012

# Fluorescent induction lamps - Performance specification (IEC 62639:2012 (EQV))

## I.S. EN 62639:2012

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**I.S. EN 62639:2012**

**EUROPEAN STANDARD**  
**NORME EUROPÉENNE**  
**EUROPÄISCHE NORM**

**EN 62639**

April 2012

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English version

**Fluorescent induction lamps -  
Performance specification  
(IEC 62639:2012)**

**Lampes fluorescentes à induction -  
Spécification de performance  
(CEI 62639:2012)**

**Leuchtstoff-Induktionslampen -  
Anforderungen an die Arbeitsweise  
(IEC 62639:2012)**

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Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

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

## **I.S. EN 62639:2012**

EN 62639:2012

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### **Foreword**

The text of document 34A/1526/FDIS, future edition 1 of IEC 62639, prepared by SC 34A, "Lamps", of IEC/TC 34, "Lamps and related equipment" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 62639:2012.

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) 2012-12-27
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2015-03-27

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## 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 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	1997	Double-capped fluorescent lamps - Performance specifications	EN 60081	1998
IEC 60598-1	-	Luminaires - Part 1: General requirements and tests	EN 60598-1	-
IEC 60929	-	AC and/or DC-supplied electronic control gear for tubular fluorescent lamps - Performance requirements	EN 60929	-
IEC 61347-2-3	-	Lamp controlgear - Part 2-3: Particular requirements for a.c. and/or d.c. supplied electronic control gear for fluorescent lamps	EN 61347-2-3	-
IEC 62532	2011	Fluorescent induction lamps - Safety specifications	EN 62532	2011

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

### FLUORESCENT INDUCTION LAMPS – PERFORMANCE SPECIFICATION

#### FOREWORD

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International Standard IEC 62639 has been prepared by subcommittee 34A: 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
34A/1526/FDIS	34A/1555/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.



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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## INTRODUCTION

Performance standard IEC 62639 follows IEC 62532:2011-01, which is the safety standard for induction lamps.

Requirements are given on marking, dimensions, starting characteristics, electrical characteristics, photometric characteristics, lumen maintenance and life. Further, information is given for designing ballasts and luminaires.

The requirements are detailed by means of lamp data sheets, diagrammatic data sheets and maximum lamp outline sheets.

## FLUORESCENT INDUCTION LAMPS – PERFORMANCE SPECIFICATION

### 1 Scope

This International Standard specifies the performance requirements for fluorescent induction lamps for general lighting purposes.

In this standard, the term “lamp” stands for “induction lamp”.

It may be expected that lamps which comply with this standard will start and operate satisfactorily at voltages between 92 % and 106 % of rated supply voltage and at an ambient air temperature between 10 °C and 50 °C, when operated with ballasts complying with IEC 60929 and IEC 61347-2-3, as far as applicable, and in a luminaire complying with IEC 60598-1.

NOTE For some lamps, additional information for ballast design is given for proper starting at an ambient air temperature of –15 °C.

### 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 60081:1997, *Double-capped fluorescent lamps – Performance specifications*

IEC 60598-1, *Luminaires – Part 1: General requirements and tests*

IEC 60929, *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 62532:2011, *Fluorescent induction lamps – Safety specifications*

### 3 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 62532 and IEC 60081 apply, together with the following.

#### 3.1

##### ambient temperature

$T_{amb}$

average temperature of air or another medium in the vicinity of the lamp

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