

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

**Controlgear for electric light sources – Safety –  
Part 2-3: Particular requirements – AC or DC supplied electronic controlgear for  
fluorescent lamps**

**Appareillages de commande pour les sources de lumière électriques – Sécurité –  
Partie 2-3: Exigences particulières – Appareillages électroniques alimentés en  
courant alternatif ou en courant continu pour lampes fluorescentes**



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## CONTENTS

FOREWORD.....	4
INTRODUCTION.....	6
1 Scope.....	7
2 Normative references .....	7
3 Terms and definitions .....	8
4 General requirements .....	9
5 General notes on tests .....	10
6 Classification.....	10
7 Marking .....	10
7.1 Marking and information.....	10
7.1.1 Mandatory marking .....	10
7.1.2 Information to be provided .....	10
7.2 Durability and legibility of markings.....	10
7.3 Built-in controlgear.....	10
8 Terminals .....	11
9 Earthing.....	11
10 Protection against accidental contact with live parts .....	11
11 Moisture resistance and insulation.....	11
12 Electric strength .....	11
13 Thermal endurance test for windings of ballasts .....	11
14 Fault conditions .....	11
15 Protection of associated components.....	11
15.1 Maximum allowed peak voltage under normal operation conditions .....	11
15.2 Maximum working voltage under normal and abnormal operating conditions .....	12
15.3 Maximum working voltage and rectifying effect .....	12
15.4 Output voltage and abnormal conditions .....	12
15.5 Isolation of input terminals of controllable electronic controlgear.....	12
16 Abnormal conditions .....	13
16.1 Abnormal conditions for AC and DC controlgear .....	13
16.2 Additional abnormal conditions for DC supplied electronic controlgear .....	13
17 Behaviour of the controlgear at end of lamp life .....	14
17.1 End of lamp life effects .....	14
17.2 Asymmetric pulse test.....	14
17.3 Asymmetric power test.....	16
17.4 Open filament test.....	18
17.4.1 Selection .....	18
17.4.2 Measurements to be carried out prior to test procedure A.....	18
17.4.3 Test procedure A .....	19
17.4.4 Test procedure B .....	19
18 Construction.....	21
19 Creepage distances and clearances .....	21
20 Screws, current-carrying parts and connections.....	21
21 Resistance to heat, fire and tracking.....	21
22 Resistance to corrosion .....	21

23	Applicable annexes of IEC 61347-1 .....	22
	Annex A (normative) Measurement of high-frequency leakage current .....	27
	Annex B (normative) Additional requirements for centrally supplied controlgear for emergency lighting.....	31
	B.1 Marking.....	31
	B.1.1 Mandatory markings .....	31
	B.1.2 Information to be provided if applicable .....	31
	B.2 General statement .....	31
	B.3 Starting conditions .....	31
	B.4 Operating conditions .....	32
	B.5 Current .....	32
	B.6 Maximum current in any lead to a cathode .....	32
	B.7 Lamp operating current waveform .....	32
	B.8 EMC immunity.....	32
	B.9 Pulse voltage from central battery systems .....	32
	B.10 Tests for abnormal conditions .....	33
	B.11 Temperature cycling test and endurance test.....	33
	B.12 Functional safety (EBLF).....	33
	Annex C (informative) Components used in the asymmetric pulse test circuit.....	34
	Annex D (informative) Schedule of more onerous requirements .....	35
	Bibliography.....	36
	Figure 1 – Asymmetric pulse test circuit.....	16
	Figure 2 – Asymmetric power detection circuit .....	18
	Figure 3 – Open filament test circuits .....	21
	Figure 4 – Circuit for testing rectifying effect.....	23
	Figure 5 – Nomographs for the capacitive leakage current limits of HF-operated fluorescent lamps.....	26
	Figure A.1 – Leakage current test arrangement for various fluorescent lamps.....	30
	Table 1 – Relation between RMS working voltage and maximum allowed peak voltage.....	12
	Table B.1 – Pulse voltages .....	32
	Table C.1 – Material specification .....	34
	Table C.2 – Transformer specification.....	34

## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**CONTROLGEAR FOR ELECTRIC LIGHT SOURCES – SAFETY –****Part 2-3: Particular requirements – AC or DC  
supplied electronic controlgear for fluorescent lamps**

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IEC 61347-2-3 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 2011 and Amendment 1:2016. This edition constitutes a technical revision.

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

- a) introduction of dated references where appropriate;
- b) clarification of sample item numbers;
- c) alignment of clause numbers with those of IEC 61347-1.

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

Draft	Report on voting
34C/1586/CDV	34C/1594/RVC

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/publications](http://www.iec.ch/publications).

This document is intended to be used in conjunction with IEC 61347-1:2015 and IEC 61347-1:2015/AMD1:2017. Where the requirements of any of the clauses of IEC 61347-1:2015 and IEC 61347-1:2015/AMD1:2017 are referred to in this document by the phrase "IEC 61347-1:2015, Clause n and IEC 61347-1:2015/AMD1:2017, Clause n apply", this phrase is interpreted as meaning that all the requirements of the clause in question of IEC 61347-1:2015 and IEC 61347-1:2015/AMD1:2017 apply, except any which are clearly inapplicable to the specific type of controlgear covered by this document.

NOTE In this document, the following print type is used:

– *compliance statements: in italic type.*

A list of all parts in the IEC 61347 series, published under the general title *Controlgear for electric light sources – Safety*, can be found on the IEC website.

Future documents in this series will carry the new general title as cited above. Titles of existing documents in this series will be updated at the time of the next edition.

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, or
- revised.

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## INTRODUCTION

The technical requirements in this document compared to IEC 61347-2-3:2011 and IEC 61347-2-3:2011/AMD1:2016 are essentially unchanged. Nevertheless, a new edition of this document could not be avoided, as without the introduction of dated references to IEC 61347-1:2015 and IEC 61347-1:2015/AMD1:2017, the fourth edition of IEC 61347-1:<sup>1</sup> would have been implicitly applicable due to the undated nature of the references to IEC 61347-1 in IEC 61347-2-3:2011 and IEC 61347-2-3:2011/AMD1:2016.

This document, in referring to any of the clauses of IEC 61347-1:2015 and IEC 61347-1:2015/AMD1:2017, specifies the extent to which such a clause is applicable. Additional requirements are also included, as necessary.

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<sup>1</sup> Fourth edition under preparation. Stage at the time of publication IEC FDIS 61347-1:2024.



## CONTROLGEAR FOR ELECTRIC LIGHT SOURCES – SAFETY –

### Part 2-3: Particular requirements – AC or DC supplied electronic controlgear for fluorescent lamps

#### 1 Scope

This part of IEC 61347 specifies safety requirements for electronic controlgear for use on AC supplies at 50 Hz or 60 Hz up to 1 000 V or on DC supplies up to 1 000 V with lamp operating frequencies deviating from the supply frequency, associated with fluorescent lamps as specified in IEC 60081 and IEC 60901, low-pressure UV lamps, and other fluorescent lamps for high-frequency operation.

NOTE 1 Requirements for centrally supplied controlgear for emergency lighting are given in Annex B. This also includes performance requirements as far as they are considered to be safety-related with respect to reliable emergency operation.

NOTE 2 Requirements for emergency lighting controlgear operating from non-centralised power supplies are given in IEC 61347-2-7.

NOTE 3 Performance requirements are the subject of IEC 60929.

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

IEC 60081:1997/AMD1:2000

IEC 60081:1997/AMD2:2003

IEC 60081:1997/AMD3:2005

IEC 60081:1997/AMD4:2010

IEC 60081:1997/AMD5:2013

IEC 60081:1997/AMD6:2017

IEC 60901:1997, *Single-capped fluorescent lamps – Performance specifications*

IEC 60901:1997/AMD1:1997

IEC 60901:1997/AMD2:2000

IEC 60901:1997/AMD3:2004

IEC 60901:1997/AMD4:2007

IEC 60901:1997/AMD5:2011

IEC 60901:1997/AMD6:2014

IEC 60929:2011, *AC and/or DC-supplied electronic control gear for tubular fluorescent lamps – Performance requirements*

IEC 60929:2011/AMD1:2015

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

IEC 61347-1:2015/AMD1:2017