

Irish Standard I.S. EN 61347-2-2:2012

Lamp controlgear -- Part 2-2: Particular requirements for d.c. or a.c. supplied electronic step-down convertors for filament lamps (IEC 61347-2-2:2011 (EQV))

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EUROPEAN STANDARD

EN 61347-2-2

NORME EUROPÉENNE EUROPÄISCHE NORM

March 2012

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Supersedes EN 61347-2-2:2001 + corr. Jul.2003 + A1:2006 + A2:2006 + corr. Nov.2006

English version

Lamp controlgear -

Part 2-2: Particular requirements for d.c. or a.c. supplied electronic stepdown convertors for filament lamps

(IEC 61347-2-2:2011)

Appareillages de lampes Partie 2-2: Exigences particulières pour
les convertisseurs abaisseurs
électroniques alimentés en courant
continu ou alternatif pour lampes à
incandescence
(CEI 61347-2-2:2011)

Geräte für Lampen -Teil 2-2: Besondere Anforderungen an gleich- oder wechselstromversorgte elektronische Konverter für Glühlampen (IEC 61347-2-2:2011)

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CENELEC

European Committee for Electrotechnical Standardization Comité Européen de Normalisation Electrotechnique Europäisches Komitee für Elektrotechnische Normung

Management Centre: Avenue Marnix 17, B - 1000 Brussels

EN 61347-2-2:2012

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Foreword

The text of document 34C/994/FDIS, future edition 2 of IEC 61347-2-2, 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 61347-2-2:2012.

The following dates are fixed:

•	latest date by which the document has	(dop)	2012-10-11
	to be implemented at national level by		
	publication of an identical national		
	standard or by endorsement		
•	latest date by which the national	(dow)	2015-01-11
	standards conflicting with the		
	document have to be withdrawn		

This document supersedes EN 61347-2-2:2001 + corr Jul. 2003 + A1:2006 + A2:2006 + corr. Nov. 2006.

The major modification for EN 61347-2-2:2012 is the changeover from SELV equivalent to SELV.

This standard shall be used in conjunction with EN 61347-1:2008 + A1:2011 + A2:200X¹.

This part 2 supplements or modifies the clauses in EN 61347-1, so as to convert that publication into the European Standard: Particular requirements for d.c. or a.c. supplied electronic step-down convertors for filament lamps.

NOTE In this standard, the following print types are used:

- Requirements proper: in roman type.
- Test specifications: in italic type.
- Explanatory matter: in smaller roman type.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

Endorsement notice

The text of the International Standard IEC 61347-2-2:2011 was approved by CENELEC as a European Standard without any modification.

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¹ To be published.

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>	EN/HD	<u>Year</u>
IEC 60357	-	Tungsten halogen lamps (non-vehicle) - Performance specifications	EN 60357	-
IEC 61047	-	DC or AC supplied electronic step-down convertors for filament lamps - Performance requirements	EN 61047	-
IEC 61347-1 (mod) + A1	2007 2010	Lamp controlgear - Part 1: General and safety requirements	EN 61347-1 + A1	2008 2011
IEC 61558-2-1	-	Safety of power transformers, power supplies reactors and similar products - Part 2-1: Particular requirements and tests for separating transformers and power supplies incorporating separating transformers for general applications		-
IEC 61558-2-6	-	Safety of transformers, reactors, power suppl 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	•	-
IEC 61558-2-13	-	Safety of transformers, reactors, power suppl units and similar products for supply voltages up to 1 100 V - Part 2-13: Particular requirements and tests for auto transformers and power supply units incorporating auto transformers	yEN 61558-2-13	-
IEC 61558-2-16	-	Safety of transformers, reactors, power suppl units and similar products for voltages up to 1 100 V - Part 2-16: Particular requirements and tests for switch mode power supply units and transformers for switch mode power supply units		-

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

LAMP CONTROLGEAR -

Part 2-2: Particular requirements for d.c. or a.c. supplied electronic step-down convertors for filament lamps

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard IEC 61347-2-2 has been prepared by subcommittee 34C: Auxiliaries for lamps, of IEC technical committee 34: Lamps and related equipment.

This second edition of IEC 61347-2-2 replaces the first edition (2000), Amendment 1 (2005) and Amendment 2 (2006). The major modification for this second edition is the changeover from SELV equivalent to SELV.

This standard shall be used in conjunction with the second edition of IEC 61347-1 (2007) and its Amendment 1 (2010) and 2 (to be published).

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

FDIS	Report on voting
34C/994/FDIS	34C/1001/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.

This part 2 supplements or modifies the clauses in IEC 61347-1, so as to convert that publication into the IEC Standard: Particular requirements for d.c. or a.c. supplied electronic step-down convertors for filament lamps.

NOTE In this standard, the following print types are used:

- Requirements proper: in roman type.
- Test specifications: in italic type.
- Explanatory matter: in smaller roman type.

A list of all parts of the IEC 61347 series, under the general title: Lamp control gear 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.

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INTRODUCTION

This second edition of IEC 61347-2-2 is published in conjunction with IEC 61347-1. The formatting into separately published parts provides for ease of future amendments and revisions. Additional requirements will be added as and when a need for them is recognized.

This standard, and the other parts which make up IEC 61347-2, in referring to any of the clauses of IEC 61347-1, specify the extent to which such a clause is applicable and the order in which the tests are to be performed; they also include additional requirements, as necessary. All parts which make up IEC 61347-2 are self-contained and, therefore, do not include references to each other.

Where the requirements of any of the clauses of IEC 61347-1 are referred to in this standard by the phrase "The requirements of clause n of IEC 61347-1 apply", this phrase is interpreted as meaning that all requirements of the clause in question of part 1 apply, except any which are clearly inapplicable to the specific type of lamp control gear covered by this particular part of IEC 61347-2.

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LAMP CONTROLGEAR -

Part 2-2: Particular requirements for d.c. or a.c. supplied electronic step-down convertors for filament lamps

1 Scope

This part of IEC 61347 specifies particular safety requirements for electronic step-down convertors for use on d.c. supplies of up to 250 V or a.c. supplies of up to 1 000 V, at 50 Hz or 60 Hz and with rated output voltage \leq 50 V r.m.s. at a frequency deviating from the supply frequency, or 120 V ripple free d.c. between conductors and between any conductor and earth, associated with tungsten-halogen lamps as specified in IEC 60357 and other filament lamps.

NOTE The limit of 50 V rated output voltage is in accordance with band I of IEC 60449.

Particular requirements for electronic step-down convertors with means of protection against overheating are given in Annex C.

Particular additional requirements for convertors providing safety extra low voltage (hereinafter SELV), are given in Annex I.

Performance requirements are covered by IEC 61047.

Plug-in convertors, being part of the luminaire, are covered as for built-in convertors by the additional requirements of the luminaire standard.

2 Normative references

For the purpose of this part of IEC 61347, the normative references given in Clause 2 of IEC 61347-1 which are mentioned in this standard apply, together with the following normative references:

IEC 60357, Tungsten halogen lamps (non vehicle) – Performance specifications

IEC 61047, DC or a.c. 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)

IEC 61558-2-1, Safety of power transformers, power supplies, reactors and similar products – Part 2-1: Particular requirements and tests for separating transformers and power supplies incorporating separating transformers for general applications

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

IEC 61558-2-13, Safety of transformers, reactors, power supply units and similar products for supply voltages up to 1 100 V - Part 2-13: Particular requirements and tests for auto transformers and power supply units incorporating auto transformers



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