

CONSOLIDATED VERSION

VERSION CONSOLIDÉE



Lamp control gear –

Part 2-3: Particular requirements for a.c. and/or d.c. supplied electronic control gear for fluorescent lamps

Appareillages de lampes –

Partie 2-3: Exigences particulières pour les appareillages électroniques alimentés en courant alternatif et/ou en courant continu pour lampes fluorescentes



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INTERNATIONAL
ELECTROTECHNICAL
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ISBN 978-2-8322-3539-3

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CONTENTS

FOREWORD.....	4
INTRODUCTION.....	6
1 Scope	7
2 Normative references	7
3 Terms and definitions	7
4 General requirements	8
5 General notes on tests.....	8
6 Classification.....	9
7 Marking	9
8 Protection against accidental contact with live parts	9
9 Terminals	9
10 Provisions for earthing.....	10
11 Moisture resistance and insulation	10
12 Electric strength	10
13 Thermal endurance test for windings.....	10
14 Fault conditions	10
15 Protection of associated components	10
16 Abnormal conditions	12
17 Behaviour of the control gear at end of lamp life.....	13
18 Construction.....	19
19 Creepage distances and clearances.....	19
20 Screws, current-carrying parts and connections.....	19
21 Resistance to heat, fire and tracking.....	19
22 Resistance to corrosion	19
Annex A (normative) Test to establish whether a conductive part is a live part which may cause an electric shock.....	24
Annex B (normative) Particular requirements for thermally protected lamp control gear	25
Annex C (normative) Particular requirements for electronic lamp control gear with means of protection against overheating	26
Annex D (normative) Requirements for carrying out the heating tests of thermally protected lamp control gear.....	27
Annex E (normative) Use of constant S other than 4 500 in t_w tests	28
Annex F (normative) Draught-proof enclosure.....	29
Annex G (normative) Explanation of the derivation of the values of pulse voltages	30
Annex H (normative) Tests.....	31
Annex I (normative) Measurement of high-frequency leakage current.....	32
Annex J (normative) Particular additional safety requirements for a.c., a.c./d.c. or d.c. supplied electronic control gear for emergency lighting	37
Annex K (informative) Components used in the asymmetric pulse test circuit (see Figure 1)	41
Annex L (normative) Information for control gear design (from Annex E of IEC 61195)	42
Bibliography	43

Figure 1 – Asymmetric pulse test circuit	14
Figure 2 – Asymmetric power detection circuit.....	16
Figure 3 – Open filament test circuits	18
Figure 4 – Circuit for testing rectifying effect.....	20
Figure 5 – Nomographs for the capacitive leakage current limits of HF-operated fluorescent lamps	23
Figure I.1 – Leakage current test arrangement for various fluorescent lamps.....	36
Table 1 – Relation between r.m.s. working voltage and maximum peak voltage	11
Table J.1 – Pulse voltages	10
Table K.1 – Material specification.....	41
Table K.2 – Transformer specification	41

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LAMP CONTROL GEAR –

Part 2-3: Particular requirements for a.c. and/or d.c. supplied electronic control gear for fluorescent lamps

FOREWORD

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This Consolidated version of IEC 61347-2-3 bears the edition number 2.1. It consists of the second edition (2011-05) [documents 34C/955/FDIS and 34C/968/RVD], its corrigendum 1 (2011-09) and its amendment 1 (2016-07) [documents 34C/1206/FDIS and 34C/1241/RVD]. The technical content is identical to the base edition and its amendment.

In this Redline version, a vertical line in the margin shows where the technical content is modified by amendment 1. Additions are in green text, deletions are in strikethrough red text. A separate Final version with all changes accepted is available in this publication.

International Standard IEC 61347-2-3 has been prepared by subcommittee 34C: Auxiliaries for lamps, of IEC technical committee 34: Lamps and related equipment.

This standard shall be used in conjunction with IEC 61347-1 (2007) and its Amendment 1 (2010).

This second edition constitutes a technical revision.

The significant revisions with respect to the first edition are:

- rectifying test conditions when dimming;
- construction requirements;
- measurement circuits and limits for HF leakage currents;
- modification of the structure to become a standard exclusively for a.c. and d.c. centrally supplied electronic control gear for general lighting and Annex J cover centrally-supplied emergency control gear.

This publication has been drafted in accordance with the ISO/IEC Directive – Part 2.

This part 2 supplements or modifies the corresponding clauses in IEC 61347-1 so as to convert that publication into the IEC standard: Particular requirements for a.c. and/or d.c. centrally supplied electronic control gear for fluorescent 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, published under the general title: *Lamp control gear*, can be found on the IEC website.

The committee has decided that the contents of the base publication and its amendment 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

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INTRODUCTION

This second edition of IEC 61347-2-3, published in conjunction with IEC 61347-1, represents an review of the first edition of IEC 61347-2-3. 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 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 intended to be self-contained and, therefore, do not include references to each other. However, for the case of emergency lighting lamp control gear, some cross-referencing has been necessary.

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.

LAMP CONTROL GEAR –

Part 2-3: Particular requirements for a.c. and/or d.c. supplied electronic control gear for fluorescent lamps

1 Scope

This part of IEC 61347 specifies particular safety requirements for electronic control gear for use on a.c. supplies at 50 Hz or 60 Hz up to 1 000 V and/or d.c. supplies up to 1 000 V ~~at 50 Hz or 60 Hz~~ with lamp operating frequencies deviating from the supply frequency, associated with fluorescent lamps as specified in IEC 60081 and IEC 60901, and other fluorescent lamps for high-frequency operation.

Performance requirements are the subject of IEC 60929.

Particular requirements for electronic control gear with means protection against overheating are given in Annex C.

For emergency lighting operation, particular requirements for control gear operated from a central supply are given in Annex J. Performance requirements appropriate to the safe operation of emergency lighting are also contained in Annex J.

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

NOTE Performance requirements detailed by Annex J are those considered to be safety-related with respect to reliable emergency operation.

2 Normative references

For the purposes of this document, 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 60929: 2011, *AC and/or DC-supplied electronic control gear for tubular fluorescent lamps – Performance requirements*

IEC 61347-1:2007, *Lamp control gear – Part 1: General and safety requirements* Amendment 1(2010)

IEC 61347-2-7, ___ *Lamp control gear – Part 2-7: Particular requirements for battery supplied electronic control gear for emergency lighting (self-contained)*¹

IEC 61547, *Equipment for general lighting purposes – EMC immunity requirements*

3 Terms and definitions

For the purposes of this document, the terms and definitions of Clause 3 of IEC 61347-1 apply, together with the following.

¹ To be published