

Lamp controlgear —

Part 2-8: Particular requirements for ballasts for fluorescent lamps

ICS 29.140.99

National foreword

This British Standard is the UK implementation of EN 61347-2-8:2001+A1:2006, incorporating corrigenda July 2003, December 2010 and August 2012. It is identical to IEC 61347-2-8:2000, incorporating amendment 1:2006. Together with BS EN 61347-1 it supersedes BS EN 60920:1991 which is withdrawn.

The start and finish of text introduced or altered by amendment is indicated in the text by tags **A1** **A1**. Tags indicating changes to IEC text carry the number of the IEC amendment. For example, text altered by IEC amendment 1 is indicated in the text by **A1** **A1**.

The UK participation in its preparation was entrusted to Technical Committee CPL/34, Lamps and Related Equipment, to Subcommittee CPL/34/3, Auxiliaries for lamps.

A list of organizations represented on this subcommittee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard, having been prepared under the direction of the Electrotechnical Sector Committee, was published under the authority of the Standards Committee and comes into effect on 15 May 2001

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	31 March 2011	Modification of CENELEC foreword
	30 September 2012	Implementation of IEC corrigendum August 2012: Figure I.1 updated

English version

**Lamp controlgear —
Part 2-8: Particular requirements
for ballasts for fluorescent lamps
(IEC 61347-2-8:2000)
(includes amendment A1:2006)**

Appareillages de lampes —
Partie 2-8: Prescriptions particulières
pour les ballasts pour lampes
fluorescentes
(CEI 61347-2-8:2000)
(inclut l'amendement A1:2006)

Geräte für Lampen —
Teil 2-8: Besondere Anforderungen an
Vorschaltgeräte für Leuchtstofflampen
(IEC 61347-2-8:2000)
(enthält Änderung A1:2006)

This European Standard was approved by CENELEC on 2000-11-01; amendment A1 was approved by CENELEC on 2006-02-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

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CENELEC

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

Central Secretariat: Avenue Marnix 17, B-1000 Brussels

Foreword

The text of document 34C/505/FDIS, future edition 1 of IEC 61347-2-8, prepared by SC 34C, Auxiliaries for lamps, of IEC TC 34, Lamps and related equipment, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61347-2-8 on 2000-11-01.

This European Standard, together with EN 61347-1, supersedes EN 60920:1991 + A1:1993 + A2:1996.

The following dates were fixed:

- latest date by which the EN has to be implemented
at national level by publication of an identical
national standard or by endorsement (dop) 2001-08-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2006-12-01

This standard shall be used in conjunction with EN 61347-1.

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

- requirements : in roman type;
- *test specifications: in italic type;*
- notes: in smaller roman type.

Annexes designated "normative" are part of the body of the standard.

In this standard, annexes A to I and ZA are normative and annex J is informative.

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 61347-2-8:2000 was approved by CENELEC as a European Standard without any modification.

Foreword to amendment A1

The text of document 34C/708/FDIS, future amendment 1 to IEC 61347-2-8:2000, prepared by SC 34C, Auxiliaries for lamps, of IEC TC 34, Lamps and related equipment, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as amendment A1 to EN 61347-2-8:2001 on 2006-02-01.

The following dates were fixed:

- latest date by which the amendment has to be
implemented at national level by publication of
an identical national standard or by endorsement (dop) 2006-11-01
- latest date by which the national standards conflicting
with the amendment have to be withdrawn (dow) 2009-02-01

Endorsement notice

The text of amendment 1:2006 to the International Standard IEC 61347-2-8:2000 was approved by CENELEC as an amendment to the European Standard without any modification.

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INTRODUCTION

This first edition of IEC 61347-2-8, published in conjunction with IEC 61347-1, represents an editorial review of IEC 60920. 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 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 controlgear covered by this particular part of IEC 61347-2.

LAMP CONTROLGEAR –

Part 2-8: Particular requirements for ballasts for fluorescent lamps

1 Scope

This part of IEC 61347 specifies safety requirements for ballasts, excluding resistance types, for use on a.c. supplies up to 1 000 V at 50 Hz or 60 Hz, associated with fluorescent lamps with or without pre-heated cathodes operated with or without a starter or starting device and having rated wattages, dimensions and characteristics as specified in IEC 60081 and 60901.

This standard applies to complete ballasts and to their component parts such as reactors, transformers and capacitors. Particular requirements for thermally protected ballasts are given in annex B.

Ballasts for conventional operation of lamps at mains frequency are covered, while a.c. supplied electronic ballasts for high frequency operation are excluded. These are specified in IEC 61347-2-3.

Capacitors having a capacitance greater than 0,1 μF are covered by IEC 61048 and IEC 61049. Capacitors having a capacitance less than or equal to 0,1 μF are specified in IEC 60384-14.

Performance requirements are the subject of IEC 60921.

2 Normative references

For the purpose of this part of IEC 61347, the normative references given in clause 2 of IEC 61374-1 which are mentioned in this standard apply, together with the following normative references:

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

3 Definitions

For the purpose of this part of IEC 61347, the definitions of clause 3 of IEC 61347-1 apply, together with the following:

3.1

rated temperature rise of a ballast winding

Δt

temperature rise assigned by the manufacturer under the conditions specified in this standard

NOTE The specifications for the supply and mounting conditions of the ballast are given in annex H.