

Specification for

D.C. or a.c. supplied electronic step-down convertors for filament lamps — Performance requirements

The European Standard EN 61047:1992, with the incorporation of amendments A1:1996 and A2:2001, has the status of a British Standard

ICS 29.140.99

Cooperating organizations

The European Committee for Electrotechnical Standardization (CENELEC), under whose supervision this European Standard was prepared, comprises the national committees of the following countries:

Austria	Italy
Belgium	Luxembourg
Denmark	Netherlands
Finland	Norway
France	Portugal
Germany	Spain
Greece	Sweden
Iceland	Switzerland
Ireland	United Kingdom

This British Standard, having been prepared under the direction of the Electrical Illuminations Standards Policy Committee, was published under the authority of the Standards Board and comes into effect on 15 March 1993

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Amendments issued since publication

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The following BSI references relate to the work on this standard:
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National foreword

This British Standard has been prepared under the direction of the Electrical Illuminations Standards Policy Committee and is the English language version of EN 61047:1992 *D.C. or a.c. electronic step-down converters for filament lamps. Performance requirements*, and its amendments A1:1996 and A2:2001, published by the European Committee for Electrotechnical Standardization (CENELEC). It is identical with IEC 1047:1991 and its amendments 1:1996 and 2:2001, published by the International Electrotechnical Commission (IEC).

The foreword of amendment A1 to the EN makes reference to the “date of withdrawal (dow) of conflicting national standards” as 1997-04-01. In this case, the relevant national standard is BS EN 61047:1992, but the date of withdrawal relates only to those parts of the British Standard subject to Amendment No. 1.

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 by **A1** **A1**.

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 organizations represented on this committee can be obtained on request to its secretary.

From 1 January 1997, all IEC publications have the number 60000 added to the old number. For instance, IEC 27-1 has been renumbered as IEC 60027-1. For a period of time during the changeover from one numbering system to another, publications may contain identifiers from both systems.

Cross-references

The British Standards which implement international or European publications referred to in this document may be found in the *BSI Catalogue* under the section entitled “International Standards Correspondence Index”, or by using the “Search” facility of the *BSI Electronic Catalogue* or of British Standards Online.

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 does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, the EN title page, pages 2 to 15 and a back cover.

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Descriptors: Electronic equipment, convertor, filament lamp, halogen lamp, classification, marking, temperature shock test, test requirement

English version

D.C. or a.c. supplied electronic step-down convertors for filament lamps — Performance requirements

(includes amendments A1:1996 and A2:2001)

(IEC 61047:1991 + A1:1996 + A2:2001)

Convertisseurs abaisseurs électroniques
alimentés en courant continu ou alternatif
pour lampes à incandescence
Prescriptions de performances
(inclut les amendements A1:1996 et A2:2001)
(CEI 61047:1991 + A1:1996 + A2:2001)

Gleich- oder wechselstromversorgte
elektronische Konverter für Glühlampen —
Anforderungen an die Arbeitsweise
(enthält Änderungen A1:1996 und A2:2001)
(IEC 61047:1991 + A1:1996 + A2:2001)

This European Standard was approved by CENELEC on 1992-09-15; amendment A1 was approved by CENELEC on 1996-07-02 and amendment A2 was approved by CENELEC on 2001-04-01. 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.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

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

Central Secretariat: rue de Stassart 35, B-1050 Brussels

Foreword

At the request of the CENELEC Technical Committee TC 34Z, Luminaires and association equipment, the International Standard IEC 1047:1991 was submitted to the CENELEC Unique Acceptance Procedure (UAP) in November 1991 for acceptance as a European Standard.

The text of the International Standard was approved by CENELEC as EN 61047 on 15 September 1992.

The following dates were fixed:

- latest date of publication of an identical national standard (dop) 1993-09-01
- latest date of withdrawal of conflicting national standards (dow) 1993-09-01

Annexes designated “normative” are part of the body of the standard. In this standard, Annex ZA is normative.

For products which have complied with the relevant national standard before 1993-09-01, as shown by the manufacturer or by a certification body, this previous standard may continue to apply for production until 1998-09-01.

Foreword to amendment A1

The text of document 34C/332/FDIS, future amendment 1 to IEC 1047:1991, 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 61047:1992 on 1996-07-02.

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) 1997-04-01
- latest date by which the national standards conflicting with the amendment have to be withdrawn (dow) 1997-04-01

Foreword to amendment A2

The text of document 34C/525/FDIS, future amendment 2 to IEC 60925:1991, prepared by SC 34C, Auxillaries 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 A2 to EN 60925:1992 on 2001-04-01.

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) 2002-01-01
- latest date by which the national standards conflicting with the amendment have to be withdrawn (dow) 2004-04-01

Annexes designated “normative” are part of the body of the standard. In this standard, Annex ZA is normative.

Annex ZA has been added by CENELEC.