

DC or AC supplied electronic step-down convertors for filament lamps — Performance requirements

The European Standard EN 61047:2004 has the status of a
British Standard

ICS 29.140.20

National foreword

This British Standard is the official English language version of EN 61047:2004. It is identical with IEC 61047:2004. It supersedes BS EN 61047:1993, which is withdrawn.

The UK participation in its preparation was entrusted by Technical Committee CPL/34, Lamps and related equipment, to Subcommittee CPL/34/3, Auxiliaries for lamps, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

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

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Supersedes EN 61047:1992 + A1:1996 + A2:2001

English version

**DC or AC supplied electronic step-down convertors for filament lamps -
Performance requirements
(IEC 61047:2004)**

Convertisseurs abaisseurs électroniques
alimentés en courant continu ou alternatif
pour lampes à incandescence –
Exigences de performance
(CEI 61047:2004)

Gleich- oder wechselstromversorgte
elektronische Konverter für Glühlampen -
Anforderungen an die Arbeitsweise
(IEC 61047:2004)

This European Standard was approved by CENELEC on 2004-09-01. 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

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Foreword

The text of document 34C/635/FDIS, future edition 2 of IEC 61047, 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 61047 on 2004-09-01.

This European Standard supersedes EN 61047:1992 + A1:1996 + A2:2001.

It constitutes a technical revision. EN 61047:1992 needed to be revised completely after the decision to delete all EMC-related requirements, given that EMC varies from region to region.

This European Standard is to be read in conjunction with EN 61347-1 and EN 61347-2-2.

In this standard, the following print types are used:

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

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) | 2005-06-01 |
| – latest date by which the national standards conflicting with the EN have to be withdrawn | (dow) | 2011-09-01 |

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 61047:2004 was approved by CENELEC as a European Standard without any modification.

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INTRODUCTION

This International Standard covers performance requirements for electronic step-down convertors for d.c. supplies up to 250 V and a.c. supplies up to 1 000 V at 50 Hz or 60 Hz, operating with controlled voltage filament lamps at frequencies deviating from the supply frequency.

Attention is drawn to the fact that operating frequencies below 20 kHz may cause audio noise.

NOTE CISPR requirements regarding radio interference have to be observed in some countries.

In order to obtain satisfactory performance of filament lamps and electronic convertors, it is necessary that certain features of their designs be properly coordinated.