

Svenska Elektriska Kommissionen, SEK

Fastställt	Utgåva	Sida	Ingår i
2001-05-29	1	1 (1+10)	SEK Översikt 34

© Copyright SEK. Reproduction in any form without permission is prohibited.

**Belysningsmateriel –
Start- och driftdon för ljuskällor –
Säkerhet –
Del 2-4: Särskilda fordringar på likströmsmatade elektroniska
förkopplingsdon för allmänna belysningsändamål**

*Lamp controlgear –**Part 2-4: Particular requirements for d.c. supplied electronic ballasts for general lighting*

Som svensk standard gäller europastandarden EN 61347-2-4:2001. Den svenska standarden innehåller den officiella engelska språkversionen av EN 61347-2-4:2001.

Nationellt förord

Europastandarden EN 61347-2-4:2001

består av:

- **europastandardens ikraftsättningsdokument**, utarbetat inom CENELEC
- **IEC 61347-2-4, First edition, 2000 - Lamp controlgear -
Part 2-4: Particular requirements for d.c. supplied electronic
ballasts for general lighting**

utarbetad inom International Electrotechnical Commission, IEC.

Standarden skall användas tillsammans med SS-EN 61347-1, utgåva 1, 2001.

Tidigare utgiven svensk standard SS-EN 60924, utgåva 1, 1991 och SS-EN 60924/A1, utgåva 1, 1994, gäller ej fr o m 2003-11-01.

EUROPEAN STANDARD

EN 61347-2-4

NORME EUROPÉENNE

EUROPÄISCHE NORM

January 2001

ICS 29.140.99

Partly supersedes EN 60924:1991 + A1:1994

English version

Lamp controlgear
Part 2-4: Particular requirements for d.c. supplied electronic ballasts
for general lighting
(IEC 61347-2-4:2000)

Appareillages de lampes
Partie 2-4: Prescriptions particulières pour
les ballasts électroniques alimentés en
courant continu pour l'éclairage général
(CEI 61347-2-4:2000)

Geräte für Lampen
Teil 2-4: Besondere Anforderungen an
gleichstromversorgte elektronische
Vorschaltgeräte für die
Allgemeinbeleuchtung
(IEC 61347-2-4:2000)

This European Standard was approved by CENELEC on 2000-11-01. 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, Czech Republic, 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

The text of document 34C/501/FDIS, future edition 1 of IEC 61347-2-4, 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 61347-2-4 on 2000-11-01.

This European Standard, together with EN 61347-1, supersedes section three of EN 60924:1991 + A1:1994.

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) 2003-11-01

This standard shall be used in conjunction with EN 61347-1:2001.

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 H and ZA are normative.
Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 61347-2-4:2000 was approved by CENELEC as a European Standard without any modification.

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

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>	<u>EN/HD</u>	<u>Year</u>
IEC 61347-1	2000	Lamp controlgear Part 1: General and safety requirements	EN 61347-1	2001
IEC 60925	¹⁾	D.C. supplied electronic ballasts for tubular fluorescent lamps - Performance requirements	EN 60925	1991 ²⁾

¹⁾ undated reference.

²⁾ valid edition at date of issue.

CONTENTS

Page

Clause

1	Scope	4
2	Normative references.....	4
3	Definitions.....	4
4	General requirements.....	4
5	General notes on tests	4
6	Classification.....	4
7	Marking.....	5
7.1	Mandatory markings	5
7.2	Information to be provided, if applicable	5
8	Protection against accidental contact with live parts.....	5
9	Terminals.....	5
10	Provisions for earthing	5
11	Moisture resistance and insulation.....	5
12	Electric strength.....	5
13	Thermal endurance test for windings	5
14	Pulse voltages	6
15	Abnormal conditions.....	6
15.1	Removal of lamp(s)	6
15.2	Lamp fails to start (cathodes intact electrically)	6
15.3	Polarity reversal	7
16	Fault conditions	7
17	Construction	7
18	Creepage distances and clearances	7
19	Screws, current-carrying parts and connections.....	7
20	Resistance to heat, fire and tracking	7
21	Resistance to corrosion	7
Annex A (normative) Test to establish whether a conductive part is a live part which may cause an electric shock.....		8
Annex B (normative) Particular requirements for thermally protected lamp controlgear.....		8
Annex C (normative) Particular requirements for electronic lamp controlgear with means of protection against overheating		8
Annex D (normative) Requirements for carrying out the heating tests of thermally protected lamp controlgear		8
Annex E (normative) Use of constant S other than 4 500 in t_w tests.....		8
Annex F (normative) Draught-proof enclosure.....		9
Annex G (normative) Explanation of the derivation of the values of pulse voltages		9
Annex H (normative) Tests		9
Table 1 – Pulse voltages		6

LAMP CONTROLGEAR –

Part 2-4: Particular requirements for d.c. supplied electronic ballasts for general lighting

1 Scope

This part of IEC 61347 specifies particular safety requirements for d.c. supplied electronic ballasts intended for operation from transient and surge-free power sources, operated directly from batteries without charging equipment as used in leisure equipment, for example, caravans, etc.

Performance requirements are the subject of IEC 60925.

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

IEC 60925, *D.C. supplied electronic ballasts for tubular fluorescent lamps – Performance requirements*

■ [REDACTED]

[REDACTED]

■ [REDACTED]

[REDACTED]

■ [REDACTED]

[REDACTED]

■ [REDACTED]

[REDACTED]