SVENSK STANDARD

SS-EN IEC 61347-2-13, utg 3:2025

Fastställd	Sida	Ansvarig kommitté
2025-07-02	1 (20)	SEK TK 34

Belysningsmateriel – Drivdon för ljuskällor – Säkerhet – Del 2-13: Särskilda fordringar på elektroniska driftdon för LED-ljuskällor

Controlgear for electric light sources – Safety – Part 2-13: Particular requirements – Electronic controlgear for LED light sources

Som svensk standard gäller europastandarden EN IEC 61347-2-13:2024. Den svenska standarden innehåller den officiella engelska språkversionen av EN IEC 61347-2-13:2024.

Nationellt förord

Europastandarden EN IEC 61347-2-13:2024

består av:

– **europastandardens ikraftsättningsdokument,** utarbetat inom CENELEC
– **IEC 61347-2-13, Third edition, 2024 - Controlgear for electric light sources – Safety – Part 2-13: Particular requirements – Electronic controlgear for LED light sources**

utarbetad inom International Electrotechnical Commission, IEC.

Standarden ska användas tillsammans med SS-EN IEC 61347-1, utg 4:2025.

Tidigare fastställd svensk standard SS-EN 61347-2-13, utg 2:2014 med eventuella tillägg, ändringar och rättelser gäller ej fr o m 2027-12-13.

ICS 29.140.99

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Postadress: Box 1042, 172 21 Sundbyberg
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Standarder underlättar utvecklingen och höjer elsäkerheten

Det finns många fördelar med att ha gemensamma tekniska regler för bl a mätning, säkerhet och provning och för utförande, skötsel och dokumentation av elprodukter och elanläggningar.

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Var med och påverka!

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SEK Svensk Elstandard

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN IEC 61347-2-13

December 2024

ICS 29.140.99

Supersedes EN 61347-2-13:2014; EN 61347-2-13:2014/A1:2017

English Version

Controlgear for electric light sources - Safety - Part 2-13: Particular requirements - Electronic controlgear for LED light sources (IEC 61347-2-13:2024)

Appareillages de commande pour les sources de lumière électriques - Sécurité - Partie 2-13 : Exigences particulières - Appareillages électroniques pour les sources de lumière à LED
(IEC 61347-2-13:2024)

Geräte für elektrische Lichtquellen - Sicherheit - Teil 2-13: Besondere Anforderungen - elektronische Betriebsgeräte für LED-Lichtquellen
(IEC 61347-2-13:2024)

This European Standard was approved by CENELEC on 2024-10-16. 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 CEN-CENELEC Management Centre 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 CEN-CENELEC Management Centre has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Ref. No. EN IEC 61347-2-13:2024 E

European foreword

The text of document 34C/1599/FDIS, future edition 3 of IEC 61347-2-13, prepared by SC 34C "Auxiliaries for lamps" of IEC/TC 34 "Lighting" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 61347-2-13:2024.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2025-12-31
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2027-12-31

This document supersedes EN 61347-2-13:2014 and all of its amendments and corrigenda (if any).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

Any feedback and questions on this document should be directed to the users' national committee. A complete listing of these bodies can be found on the CENELEC website.

Endorsement notice

The text of the International Standard IEC 61347-2-13:2024 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standard indicated:

IEC 61140	NOTE	Approved as EN 61140
IEC 61347-1:2015	NOTE	Approved as EN 61347-1:2015 (not modified)
IEC 61347-1:2015/A1:2017	NOTE	Approved as EN 61347-1:2015/A1:2021 (not modified)
IEC 61347-2-7	NOTE	Approved as EN 61347-2-7
IEC 61347-2-13:2014	NOTE	Approved as EN 61347-2-13:2014 (not modified)
IEC 61347-2-13:2014/A1:2016	NOTE	Approved as EN 61347-2-13:2014/A1:2017 (not modified)

Annex ZA
(normative)

Normative references to international publications with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cencenelec.eu.

Publication	Year	Title	EN/HD	Year
IEC 61347-1	2024	Controlgear for electric light sources - Safety - Part 1: General requirements	EN IEC 61347-1	2024
IEC 61547	-	Equipment for general lighting purposes - EMC immunity requirements	EN IEC 61547	-
IEC 62384	2020	DC or AC supplied electronic controlgear for LED modules - Performance requirements	EN IEC 62384	2020

IEC 61347-2-13

Edition 3.0 2024-06

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Controlgear for electric light sources – Safety – Part 2-13: Particular requirements – Electronic controlgear for LED light sources

Appareillages de commande pour les sources de lumière électriques – Sécurité – Partie 2-13: Exigences particulières – Appareillages électroniques pour les sources de lumière à LED

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CONTENTS

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CONTROLGEAR FOR ELECTRIC LIGHT SOURCES – SAFETY –

Part 2-13: Particular requirements – Electronic controlgear for LED light sources

FOREWORD

1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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8) Attention is drawn to the Normative references cited in this publication. Use of the referenced publications is indispensable for the correct application of this publication.
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IEC 61347-2-13 has been prepared by subcommittee 34C: Auxiliaries for lamps, of IEC technical committee 34: Lighting. It is an International Standard.

This third edition cancels and replaces the second edition published in 2014 and Amendment 1:2016. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

a) alignment with respect to the fourth edition of IEC 61347-1:
   – introduction of dated references to the fourth edition of IEC 61347-1 as appropriate;
   – deletion of the clauses and subclauses which are either no longer relevant or now covered in IEC 61347-1;
b) update of normative references, introducing dated references where appropriate;
c) scope extension to 1 500 V for direct current;
d) scope clarification;
e) deletion of unused definitions;
f) revision of information and marking requirements;
g) new marking requirement "electronic controlgear for LED light sources";
h) new requirements for electronic controlgear for LED light sources with constant light output function or programmable current (additions to Clause 3, Clause 6, Clause 16 and Clause 18);
i) modification of requirements for the determination of the output working voltage (new Clause 17);
j) new requirements for the determination of the rated output characteristics (Clause 18).

The text of this International Standard is based on the following documents:

Draft	Report on voting
34C/1599/FDIS	34C/1603/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

This document is intended to be used in conjunction with IEC 61347-1:2024. Where the requirements of any of the clauses of IEC 61347-1:2024 are referred to in this document by the phrase "IEC 61347-1:2024, Clause n applies", this phrase is interpreted as meaning that all the requirements of the clause in question of IEC 61347-1:2024 apply, except any which are clearly inapplicable to the specific type of controlgear covered by this document.

NOTE In this document, the following print type is used:

– *compliance statements: in italic type*.

A list of all parts in the IEC 61347 series, published under the general title *Controlgear for electric light sources – Safety* can be found on the IEC website.

Future documents in this series will carry the new general title as cited above. Titles of existing documents in this series will be updated at the time of the next edition.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn, or
- revised.

INTRODUCTION

This document specifies safety requirements for electronic controlgear for LED light sources. All general requirements, which apply to controlgear for electric light sources in general, regardless of the specific type of light source in question, are contained in IEC 61347-1. The corresponding general requirements apply to electronic controlgear for LED light sources by clause-wise reference in this document to any of the clauses of IEC 61347-1, thereby specifying the extent to which such a clause is applicable and the order in which the tests are performed.

In the same way, further documents exist specifying individual safety requirements for different types of controlgear related to different types of electric light sources which, together with this document, constitute the IEC 61347-2 series.

Any such parts of the IEC 61347-2 series are the leading documents for the safety assessment of the corresponding types of controlgear; it is not IEC 61347-1.

Also, all parts of the IEC 61347-2 series are self-contained and therefore typically do not include references to each other.

CONTROLGEAR FOR ELECTRIC LIGHT SOURCES – SAFETY –

Part 2-13: Particular requirements – Electronic controlgear for LED light sources

1 Scope

This part of IEC 61347 specifies safety requirements for electronic controlgear for LED light sources for use on DC supplies up to 1 500 V or on AC supplies up to 1 000 V at 50 Hz or 60 Hz.

This document is applicable for electronic controlgear for LED light sources with an output voltage (RMS) not higher than 1 000 V.

NOTE 1 Control units, such as devices connected between the power supply unit and LED light sources that control or adjust the operation of LED light sources, are covered by this document.

NOTE 2 Performance requirements are covered by IEC 62384.

NOTE 3 Such controlgear can also be used for electric sources producing optical radiation with the same technology used for purposes different than illumination and producing radiation other than visible spectrum.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 61347-1:2024, *Controlgear for electric light sources – Safety – Part 1: General requirements*

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

IEC 62384:2020, *DC or AC supplied electronic controlgear for LED modules – Performance requirements*