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Belysningsmateriel – Drivdon för ljuskällor – Säkerhet – Del 2-12: Särskilda fordringar på elektroniska förkopplingsdon för urladdningslampor andra än lysrör

Controlgear for electric light sources –

Safety –

Part 2-12: Particular requirements –

DC or AC supplied electronic controlgear for discharge lamps (excluding fluorescent lamps)

Som svensk standard gäller europastandarden EN IEC 61347-2-12:2024. Den svenska standarden innehåller den officiella engelska språkversionen av EN IEC 61347-2-12:2024.

Nationellt förord

Europastandarden EN IEC 61347-2-12:2024

består av:

- **europastandardens ikraftsättningsdokument**, utarbetat inom CENELEC
- **IEC 61347-2-12, Second edition, 2024 - Controlgear for electric light sources – Safety – Part 2-12: Particular requirements – DC or AC supplied electronic controlgear for discharge lamps (excluding fluorescent lamps)**

utarbetad inom International Electrotechnical Commission, IEC.

Standarden ska användas tillsammans med SS-EN 61347-1, utg 3:2015 och dess separat utgivna tillägg.

Tidigare fastställd svensk standard SS-EN 61347-2-12, utg 1:2005 med eventuella tillägg, ändringar och rättelser gäller ej fr o m 2027-12-31.

ICS 29.140.99

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN IEC 61347-2-12

December 2024

ICS 29.140.99

Supersedes EN 61347-2-12:2005; EN 61347-2-12:2005/corrigendum Dec. 2010; EN 61347-2-12:2005/A1:2010

English Version

**Controlgear for electric light sources - Safety - Part 2-12:
Particular requirements - DC or AC supplied electronic
controlgear for discharge lamps (excluding fluorescent lamps)
(IEC 61347-2-12:2024)**

Appareillages de commande pour les sources de lumière
électriques - Sécurité - Partie 2-12: Exigences particulières
- Appareillages électroniques alimentés en courant continu
ou alternatif pour lampes à décharge (à l'exclusion des
lampes fluorescentes)
(IEC 61347-2-12:2024)

Betriebsgeräte für elektrische Lichtquellen - Sicherheit - Teil
2-12: Besondere Anforderungen - gleich- oder
wechselstromversorgte elektronische Vorschaltgeräte für
Entladungslampen (ausgenommen Leuchtstofflampen)
(IEC 61347-2-12:2024)

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.

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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.

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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

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Ref. No. EN IEC 61347-2-12:2024 E

SEK Svensk Elstandard

SS-EN IEC 61347-2-12, utg 2:2025

European foreword

The text of document 34C/1585/CDV, future edition 2 of IEC 61347-2-12, 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 61347-2-12:2024.

The following dates are fixed:

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

This document supersedes EN 61347-2-12:2005 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 61347-2-12:2024 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 60188	NOTE	Approved as EN 60188
IEC 60192	NOTE	Approved as EN 60192
IEC 60662	NOTE	Approved as EN 60662
IEC 61167	NOTE	Approved as EN 61167
IEC 61347-2-12:2005	NOTE	Approved as EN 61347-2-12:2005 (not modified)
IEC 61347-2-12:2005/A1:2010	NOTE	Approved as EN 61347-2-12:2005/A1:2010 (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.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60052	2002	Voltage measurement by means of standard air gaps	EN 60052	2002
IEC 60417	-	Graphical symbols for use on equipment. Index, survey and compilation of the single sheets.	-	-
IEC 61347-1	2015	Lamp controlgear - Part 1: General and safety requirements	EN 61347-1	2015
+ A1	2017		+ A1	2021
IEC 61347-2-1	2024	Controlgear for electric light sources - Safety - Part 2-1: Particular requirements - Starting devices (other than glow starters)	EN IEC 61347-2-1	2024

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Controlgear for electric light sources – Safety –
Part 2-12: Particular requirements – DC or AC supplied electronic controlgear
for discharge lamps (excluding fluorescent lamps)**

**Appareillages de commande pour les sources de lumière électriques – Sécurité –
Partie 2-12: Exigences particulières – Appareillages électroniques alimentés en
courant continu ou alternatif pour lampes à décharge (à l'exclusion des lampes
fluorescentes)**

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

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INTERNATIONALE

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

CONTROLGEAR FOR ELECTRIC LIGHT SOURCES – SAFETY –**Part 2-12: Particular requirements – DC or AC supplied electronic controlgear for discharge lamps (excluding fluorescent lamps)**

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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- 9) IEC draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). IEC takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, IEC had not received notice of (a) patent(s), which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at <https://patents.iec.ch>. IEC shall not be held responsible for identifying any or all such patent rights.

IEC 61347-2-12 has been prepared by subcommittee 34C: Auxiliaries for lamps, of IEC technical committee 34: Lighting. It is an International Standard.

This second edition cancels and replaces the first edition published in 2005 and Amendment 1:2010. This edition constitutes a technical revision.

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

- a) introduction of dated references where appropriate;
- b) clarification of sample item numbers;
- c) addition of new information requirements (items v), w) and x) of IEC 61347-1:2015, 7.1 and IEC 61347-1:2015/AMD1:2017, 7.1).

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

Draft	Report on voting
34C/1585/CDV	34C/1593/RVC

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 61347-1:2015 and IEC 61347-1:2015/AMD1:2017. Where the requirements of any of the clauses of IEC 61347-1:2015 and IEC 61347-1:2015/AMD1:2017 are referred to in this document by the phrase "IEC 61347-1:2015, Clause n and IEC 61347-1:2015/AMD1:2017, Clause n apply", this phrase is interpreted as meaning that all the requirements of the clause in question of IEC 61347-1:2015 and IEC 61347-1:2015/AMD1:2017 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

The technical requirements in this document compared to IEC 61347-2-12:2005 and IEC 61347-2-12:2005/AMD1:2010 are essentially unchanged. Nevertheless, a new edition of this document could not be avoided, as without the introduction of dated references to IEC 61347-1:2015 and IEC 61347-1:2015/AMD1:2017, the fourth edition of IEC 61347-1:—¹ would have been implicitly applicable due to the undated nature of the references to IEC 61347-1 in IEC 61347-2-12:2005 and IEC 61347-2-12:2005/AMD1:2010.

This document, in referring to any of the clauses of IEC 61347-1:2015 and IEC 61347-1:2015/AMD1:2017, specifies the extent to which such a clause is applicable. Additional requirements are also included, as necessary.

¹ Fourth edition under preparation. Stage at the time of publication IEC FDIS 61347-1:2024.

CONTROLGEAR FOR ELECTRIC LIGHT SOURCES – SAFETY –

Part 2-12: Particular requirements – DC or AC supplied electronic controlgear for discharge lamps (excluding fluorescent lamps)

1 Scope

This part of IEC 61347 specifies safety requirements for electronic controlgear for use on AC supplies at 50 Hz or 60 Hz up to 1 000 V or DC supplies up to 1 000 V. The type of controlgear is a convertor that can contain igniting and stabilizing elements for operation of a discharge lamp under direct current or at a frequency that can deviate from the supply frequency.

NOTE Lamps associated with this type of controlgear are specified in IEC 60188 (High pressure mercury vapour lamps), IEC 60192 (Low pressure sodium vapour lamps), IEC 60662 (High pressure sodium vapour lamps), IEC 61167 (Metal halide lamps) and else for general purpose lighting.

Controlgear for fluorescent lamps and for lamps for special applications such as theatre and vehicles are excluded.

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 60052:2002, *Voltage measurement by means of standard air gaps*

IEC 60417, *Graphical symbols for use on equipment*, available at <https://www.graphical-symbols.info/equipment>

IEC 61347-1:2015, *Lamp controlgear – Part 1: General and safety requirements*
IEC 61347-1:2015/AMD1:2017

IEC 61347-2-1:2024, *Controlgear for electric light sources – Safety – Part 2-1: Particular requirements for starting devices (other than glow starters)*