

<b>STN</b>	<b>Ovládacie zariadenia svetelných zdrojov Bezpečnosť Časť 2-2: Osobitné požiadavky Elektronické znižujúce meniče pre žiarovky</b>	<b>STN EN IEC 61347-2-2</b>  36 0511
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Controlgear for electric light sources - Safety - Part 2-2: Particular requirements - Electronic step-down convertors for filament lamps

Táto norma obsahuje anglickú verziu európskej normy.  
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 03/25

Obsahuje: EN IEC 61347-2-2:2024, IEC 61347-2-2:2024

Oznámením tejto normy sa od 31.12.2027 ruší  
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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN IEC 61347-2-2**

December 2024

ICS 29.140.99

Supersedes EN 61347-2-2:2012

English Version

**Controlgear for electric light sources - Safety - Part 2-2:  
Particular requirements - Electronic step-down convertors for  
filament lamps  
(IEC 61347-2-2:2024)**

Appareillages de commande pour les sources de lumière  
électriques - Sécurité - Partie 2-2: Exigences particulières -  
Convertisseurs abaisseurs électroniques pour lampes à  
incandescence  
(IEC 61347-2-2:2024)

Geräte für elektrische Lichtquellen - Sicherheit - Teil 2-2:  
Besondere Anforderungen - elektronische Konverter für  
Glühlampen  
(IEC 61347-2-2:2024)

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Comité Européen de Normalisation Electrotechnique  
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**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

**EN IEC 61347-2-2:2024 (E)****European foreword**

The text of document 34C/1597/FDIS, future edition 3 of IEC 61347-2-2, 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 61347-2-2:2024.

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IEC 60357	NOTE	Approved as EN 60357
IEC 61140:2016	NOTE	Approved as EN 61140:2016 (not modified)
IEC 61047	NOTE	Approved as EN 61047
IEC 61347-2-2:2011	NOTE	Approved as EN 61347-2-2:2012 (not modified)

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### **Normative references to international publications with their corresponding European publications**

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<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61347-1	2024	Controlgear for electric light sources - Safety - Part 1: General requirements	EN IEC 61347-1	2024



IEC 61347-2-2

Edition 3.0 2024-06

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

**Controlgear for electric light sources – Safety –  
Part 2-2: Particular requirements – Electronic step-down convertors for filament  
lamps**

**Appareillages de commande pour les sources de lumière électriques – Sécurité –  
Partie 2-2: Exigences particulières – Convertisseurs abaisseurs électroniques  
pour lampes à incandescence**



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IEC 61347-2-2

Edition 3.0 2024-06

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# NORME INTERNATIONALE

**Controlgear for electric light sources – Safety –  
Part 2-2: Particular requirements – Electronic step-down convertors for filament  
lamps**

**Appareillages de commande pour les sources de lumière électriques – Sécurité –  
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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**CONTROLGEAR FOR ELECTRIC LIGHT SOURCES – SAFETY –****Part 2-2: Particular requirements – Electronic  
step-down convertors for filament lamps**

## FOREWORD

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IEC 61347-2-2 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 2011. 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) scope extension to 1 500 V for direct current;
- c) scope clarification;
- d) deletion of unused definitions;
- e) revision of information and marking requirements;
- f) revision of compliance conditions for the measurement of the output voltage during fault condition testing and during thermal testing.

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

Draft	Report on voting
34C/1597/FDIS	34C/1602/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](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/publications](http://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.

A list of all parts in the IEC 61347, 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](http://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 filament lamp controlgear. 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 filament lamp controlgear 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 type 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 2-2: Particular requirements – Electronic step-down convertors for filament lamps

#### 1 Scope

This part of IEC 61347 specifies safety requirements for electronic step-down convertors for use on DC supplies of up to 1 500 V or AC supplies of up to 1 000 V at 50 Hz or 60 Hz, and with a rated output voltage  $\leq 50$  V (RMS) at a frequency deviating from the supply frequency, or 120 V ripple free DC between conductors and between any conductor and earth, associated with tungsten-halogen lamps as specified in IEC 60357, and other filament lamps.

NOTE 1 The limits of 50 V (alternating current) and 120 V (direct current) are in accordance with the extra-low-voltage (ELV) band of IEC 61140:2016.

NOTE 2 Performance requirements are covered by IEC 61047.

NOTE 3 Such step-down convertors 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*

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