

**Lampide juhtimisseadised. Osa 2-13: Erinõuded
valgusdioodmoodulite alalis- või
vahelduvvoolutoiteliste juhtimisseadistele**

**Lamp controlgear - Part 2-13: Particular requirements for
d.c. or a.c. Supplied electronic controlgear for LED
modules**

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 61347-2-13:2014 sisaldab Euroopa standardi EN 61347-2-13:2014 inglisekeelset teksti.	This Estonian standard EVS-EN 61347-2-13:2014 consists of the English text of the European standard EN 61347-2-13:2014.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
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English Version

Lamp controlgear - Part 2-13: Particular requirements for d.c. or
a.c. supplied electronic controlgear for LED modules
(IEC 61347-2-13:2014)

Appareillages de lampes - Partie 2-13: Exigences
particulières pour les appareillages électroniques alimentés
en courant continu ou alternatif pour les modules de LED
(CEI 61347-2-13:2014)

Geräte für Lampen - Teil 2-13: Besondere Anforderungen
an gleich- oder wechselstromversorgte elektronische
Betriebsgeräte für LED-Module
(IEC 61347-2-13:2014)

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CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

Foreword

The text of document 34C/1092/FDIS, future edition 2 of IEC 61347-2-13, prepared by SC 34C, "Auxiliaries for lamps", of IEC TC 34, "Lamps and related equipment", was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 61347-2-13:2014.

The following dates are fixed:

- latest date by which the document has (dop) 2015-07-08
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standard or by endorsement
- latest date by which the national (dow) 2017-10-08
standards conflicting with the
document have to be withdrawn

This document supersedes EN 61347-2-13:2006

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

This standard covers the Principle Elements of the Safety Objectives for Electrical Equipment Designed for Use within Certain Voltage Limits (LVD - 2006/95/EC).

Endorsement notice

The text of the International Standard IEC 61347-2-13:2014 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 standards indicated:

IEC 60051 Series	NOTE	Harmonised in EN 60051 Series.
IEC 60085:2004	NOTE	Harmonised as EN 60085:2008.
IEC 60364-4-41:2005	NOTE	Harmonised as HD 60364-4-41:2007.
IEC 60384-14:2005	NOTE	Harmonised as EN 60384-14:2005.
IEC 60950-1:2005	NOTE	Harmonised as EN 60950-1:2006.
IEC 61558-1:2005	NOTE	Harmonised as EN 61558-1:2005.
IEC 61558-2-1:2007	NOTE	Harmonised as EN 61558-2-1:2007.
IEC 61558-2-4:2009	NOTE	Harmonised as EN 61558-2-4:2009.
IEC 61558-2-13:2009	NOTE	Harmonised as EN 61558-2-13:2009.

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INTRODUCTION

This second edition of IEC 61347-2-13 is published in conjunction with IEC 61347-1. The formatting into separately published parts provides for ease of future amendments and revisions. Additional requirements will be added as and when a need for them is recognized.

This standard and the parts which make up IEC 61347-2, in referring to any of the clauses of IEC 61347-1 specify the extent to which such a clause is applicable and the order in which the tests are to be performed; they also include additional requirements as necessary. All parts which make up IEC 61347-2 are self-contained and therefore do not include references to each other.

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LAMP CONTROLGEAR –

Part 2-13: Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules

1 Scope

This part of IEC 61347 specifies particular safety requirements for electronic controlgear for use on d.c. or a.c. supplies up to 1 000 V (a.c. at 50 Hz or 60 Hz) and at an output frequency which can deviate from the supply frequency, associated with LED modules.

Controlgear for LED modules specified in this standard are designed to provide constant voltage or current at SELV or higher voltages. Deviations from the pure voltage and current types do not exclude the gear from this standard.

The annexes of IEC 61347-1 which are applicable according to this Part 2-13 and using the word “lamp” are understood to also comprise LED modules.

Particular requirements for SELV controlgear are given in Annex I.

Performance requirements are covered by IEC 62384.

Plug-in controlgear, being part of the luminaire, are covered as for built-in controlgear by the additional requirements of the luminaire standard.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 61347-1:2007, *Lamp controlgear – Part 1: General and safety requirements*
Amendment 1:2010
Amendment 2:2012

IEC 61347-2-7:2011, *Lamp controlgear – Part 2-7: Particular requirements for battery supplied electronic controlgear for emergency lighting (self-contained)*

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

IEC 61558 (all parts), *Safety of power transformers, power supplies, reactors and similar products*

IEC 61558-2-6:2009, *Safety of transformers, reactors, power supply units and similar products for supply voltages up to 1 100 V – Part 2-6: Particular requirements and tests for safety isolating transformers and power supply units incorporating safety isolating transformers*

IEC 61558-2-16:2009, *Safety of transformers, reactors, power supply units and similar products for supply voltages up to 1 100 V – Part 2-16: Particular requirements and tests for switch mode power supply units and transformers for switch mode power supply units*

IEC 62384:2006, *DC or AC supplied electronic controlgear for LED modules – Performance requirements*

3 Terms and definitions

For the purpose of this document, the terms and definitions given in IEC 61347-1, as well as the following apply.

3.1

electronic controlgear for LED modules

unit inserted between the supply and one or more LED modules which serves to supply the LED module(s) with its (their) rated voltage or rated current

Note 1 to entry: The unit may consist of one or more separate components and may include means for dimming, correcting the power factor and suppressing radio interference, and further control functions.

Note 2 to entry: The controlgear consists of a power supply and a control unit.

Note 3 to entry: The controlgear may be partly or totally integrated in the LED module.

3.2

d.c. or a.c. supplied controlgear

controlgear that includes stabilising elements for operating one or more LED module(s)

3.3

SELV controlgear

controlgear providing an SELV output isolated from the supply mains by means such as a safety isolating transformer, as specified in IEC 61558-2-6 and IEC 61558-2-16

3.4

associated controlgear

controlgear designed to supply specific appliance(s) or equipment, incorporated or not incorporated

EXAMPLE: An electronic controlgear within an emergency unit where it is assigned in a one-to-one relation to a battery driven ballast.

3.5

plug-in controlgear

controlgear incorporated in an enclosure provided with an integral plug as the means of connection of the electrical supply

3.6

rated output voltage for constant voltage controlgear

output voltage, at rated supply voltage, rated frequency and at rated output power, assigned to the controlgear

3.7

rated output current for constant current controlgear

output current, at rated supply voltage, rated frequency and at rated output power, assigned to the controlgear

3.8

light emitting diode

LED

solid state device embodying a p-n junction, emitting optical radiation when excited by an electric current

Note 1 to entry: This definition is independent from the existence of enclosure(s) and of terminals.