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**Enosmerno ali izmenično napajane krmilne stikalne naprave za module LED -  
Tehnične zahteve (IEC 62384:2006)**

**(istoveten EN 62384:2006)**

D.C. or A.C. supplied electronic controlgears for LED modules - Performance  
requirements (IEC 62384:2006)

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**DC or AC supplied electronic control gear  
for LED modules -  
Performance requirements  
(IEC 62384:2006)**

Appareillages électroniques alimentés  
en courant continu ou alternatif  
pour modules de DEL -  
Exigences de performances  
(CEI 62384:2006)

Gleich- oder wechselstromversorgte  
elektronische Betriebsgeräte  
für LED-Module -  
Anforderungen an die Arbeitsweise  
(IEC 62384:2006)

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This European Standard was approved by CENELEC on 2006-09-01. 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, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the 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/752/FDIS, future edition 1 of IEC 62384, 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 62384 on 2006-09-01.

This standard is to be used in conjunction with EN 61347-2-13.

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) 2007-06-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2009-09-01

Annex ZA has been added by CENELEC.

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## Endorsement notice

The text of the International Standard IEC 62384:2006 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 61000-3-2 NOTE Harmonized as EN 61000-3-2:2000 (modified).

IEC 61547 NOTE Harmonized as EN 61547:1995 (not modified).

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## Annex ZA (normative)

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

The following referenced documents are indispensable for the application 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 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 61347-2-13	- <sup>1)</sup>	Lamp controlgear Part 2-13: Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules	EN 61347-2-13	2006 <sup>2)</sup>
IEC 62031	- <sup>3)</sup>	LED modules for general lighting - Safety specifications	-	-

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<sup>1)</sup> Undated reference.

<sup>2)</sup> Valid edition at date of issue.

<sup>3)</sup> At draft stage.

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Exigences de performances**

**iTeh STANDARD PREVIEW**  
**DC or AC supplied electronic  
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International Electrotechnical Commission  
Международная Электротехническая Комиссия

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For price, see current catalogue*

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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**DC OR AC SUPPLIED ELECTRONIC CONTROL GEAR  
FOR LED MODULES –  
PERFORMANCE REQUIREMENTS**

## 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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International Standard IEC 62384 has been prepared by subcommittee 34C: Auxiliaries for lamps, of IEC technical committee 34: Lamps and related equipment

The text of this standard is based on the following documents:

FDIS	Report on voting
34/752/FDIS	34/760/RVD

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

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

This standard is to be read in conjunction with IEC 61347-2-13.

The committee has decided that the contents of this publication will remain unchanged until the maintenance result date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed;
- withdrawn;
- replaced by a revised edition, or
- amended.

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[SIST EN 62384:2007](#)

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# DC OR AC SUPPLIED ELECTRONIC CONTROL GEAR FOR LED MODULES – PERFORMANCE REQUIREMENTS

## 1 Scope

This international standard specifies performance requirements for electronic control gear for use on d.c. supplies up to 250 V and a.c. supplies up to 1 000 V at 50 Hz or 60 Hz with an output frequency which can deviate from the supply frequency, associated with LED modules according to IEC 62031. Control gear for LED modules specified in this standard are designed to provide constant voltage or current. Deviations from the pure voltage and current types do not exclude the gear from this standard.

NOTE 1 The tests in this standard are type tests. Requirements for testing individual control gear during production are not included.

NOTE 2 Requirements for control gear which incorporate means for varying the output power are under consideration.

NOTE 3 It may be expected that control gear complying with this standard will ensure satisfactory operation between 92 % and 106 % of the rated supply voltage, taking into account the specifications of the LED module manufacturer.

## 2 Normative references

The following referenced documents are indispensable for the application 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.

<https://standards.iteh.ai/catalog/standards/sist/0f323c20-6f10-4c3a-81e1-62384181-2006/sist/2-13-62384-2006>

IEC 61347-2-13, *Lamp control gear – Part 2-13: Particular requirements for d.c. or a.c. supplied electronic control gear for LED modules*

IEC 62031, *LED modules for general lighting – Safety requirements* <sup>1</sup>

## 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

### 3.1

#### **total circuit power**

total power dissipated by control gear and LED module(s) in combination, at rated supply voltage of the control gear and at the highest rated output load.

### 3.2

#### **circuit power factor**

$\lambda$

ratio of the measured circuit power to the product of the supply voltage (r.m.s.) and the supply current (r.m.s.).

### 3.3

#### **high audio-frequency impedance control gear**

control gear the impedance of which in the frequency range 250 Hz to 2 000 Hz exceeds the values specified in Clause 11 of this standard.