

DC or AC supplied electronic control gear for LED modules — Performance requirements

ICS 29.140.99; 31.080.99

National foreword

This British Standard is the UK implementation of EN 62384:2006+A1:2009. It is identical to IEC 62384:2006, incorporating amendment 1:2009. It supersedes BS EN 62384:2006 which will be withdrawn on 1 August 2012.

The UK participation in its preparation was entrusted by Technical Committee CPL/34, Lamps and related equipment, to Subcommittee CPL/34/3, Auxiliaries for lamps.

A list of organizations represented on this subcommittee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with a British Standard cannot confer immunity from legal obligations.

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Amendments/corrigenda issued since publication

Date	Comments
31 December 2009	Implementation of IEC amendment 1:2009 with CENELEC endorsement A1:2009; Figure A.1 replaced

**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)

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.

Endorsement notice

The text of the International Standard IEC 62384:2006 was approved by CENELEC as a European Standard without any modification.

Foreword to amendment A1

The text of document 34C/869/CDV, future amendment 1 to IEC 62384:2006, 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 amendment A1 to EN 62384:2006 on 2009-08-01.

The following dates were fixed:

- latest date by which the amendment has to be
implemented at national level by publication of
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- latest date by which the national standards conflicting
with the amendment have to be withdrawn (dow) 2012-08-01

Endorsement notice

The text of amendment 1:2009 to the International Standard IEC 62384:2006 was approved by CENELEC as an amendment to the European Standard without any modification.

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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.

IEC 61347-2-13, *Lamp controlgear – 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* ¹

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

λ

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.