

INTERNATIONAL STANDARD

NORME INTERNATIONALE



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

Appareillages électroniques alimentés en courant continu ou alternatif pour modules de DEL – Exigences de performances



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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

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The technical content is therefore identical to the base edition and its amendment and has been prepared for user convenience. A vertical line in the margin shows where the base publication has been modified by amendment 1. Additions and deletions are displayed in red, with deletions being struck through.

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

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 the base publication and its amendments will remain unchanged until the stability 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

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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.