

ICS 29.140.99

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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 24906-2023

Replacing GB 24906-2010

**Self-ballasted LED-lamps for general lighting services by
voltage>50 V - Safety specifications**

Issued on: December 28, 2023

Implemented on: January 1, 2026

**Issued by: State Administration for Market Regulation, China National
Standardization Administration**

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Foreword

This document complies with the provisions of GB/T 1:1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents"

Drafting:

This document replaces GB 24906-2010 "Safety Requirements for Self-ballasted LED Lamps Above 50V for General Lighting" and is consistent with GB 24906-

Compared with:2010, in addition to structural adjustments and editorial changes, the main technical changes are as follows:

---Added the terms and definitions of "UV hazard effectiveness of photovisual radiation" (see 3:10);

---Changed the information that should be supplemented by the logo (see 5:2, 5:2 of the:2010 version);

---Changed the bending moment and mass of the lamp on the lamp holder (see 6:2,:2010 version of 6:2);

--- Added requirements related to electrical strength (see 8:3);

---Added mechanical strength compliance requirements (see 9:3);

---Changed the relevant requirements for fault status (see Chapter 13, Chapter 13 of the:2010 edition);

---Added creepage distance and clearance requirements (see Chapter 14);

- Added requirements for abnormal work (see Chapter 15);
- Added test conditions for dimming lamps (see Chapter 16);
- Added photobiological safety requirements (see Chapter 17);
- Added intrusion protection requirements (see Chapter 18);
- Added lighting design information (see Chapter 19):

This document is equivalent to IEC 62560:2015 "Safety Specifications for Self-ballasted LED Lamps Above 50V for General Lighting":

Please note that some content in this document may be subject to patents: The publisher of this document assumes no responsibility for identifying patents:

1 Scope

This document specifies LED lamps (self-suppressing lamps) with integrated stable ignition components for general lighting in homes and similar situations:

flow LED lights): This document specifies the safety and interchangeability requirements for this type of lamp, as well as test methods and conditions for checking whether it is qualified:

This document applies to the following scope:

- Rated power 60W and below;
- The rated voltage is greater than 50V and less than or equal to 250V;
- Lamp holder meets the requirements of Table 1:

The requirements of this document relate only to type testing:

For inspection or batch inspection of all products, see Appendix C of IEC 62031:

Note 1: "Lamp" appearing in this document represents "self-ballasted LED lamp" unless otherwise specified:

Note 2: This document includes photobiological safety technical requirements:

2 Normative reference documents

The contents of the following documents constitute essential provisions of this document through normative references in the text: Among them, the dated quotations

For undated referenced documents, only the version corresponding to that date applies to this document; for undated referenced documents, the latest version (including all amendments) applies to

this document:

GB /Z 39942-2021 Apply GB/T 20145 to evaluate the blue light hazards of light sources and lamps (IEC TR62778:2014, IDT)

Note: IEC TR62778 has been withdrawn: This document uses GB /Z 39942-2021 instead of IEC TR62778 without any technical differences:

ISO 4046-4 Glossary of paper, paperboard, pulp and related terms Part 4: Paper and paperboard grades and processed products
products)

IEC 60061-1 Lampcaps, lampholders and gauges for testing their interchangeability and safety - Part 1: Lampcaps and

Note: GB/T 1406 (all parts) Type and size of lamp holder (IEC 60061-1)

IEC 60061-3 Lampcaps, lampholders and gauges for testing their interchangeability and safety - Part 3: Gauges (Lampcaps and

Note: GB/T 1483 (all parts) Lamp holder and lamp holder inspection gauge (IEC 60061-3)
rise)

Note: GB/T 24392-2009 Measurement method of lamp cap temperature rise (IEC 60360:1998, IDT)

Note: GB/T 4208-2017 Enclosure protection level (IP code) (IEC 60529:2013, IDT)
tests)

Note: GB/T 7000:1-2023 Luminaires Part 1: General requirements and tests (IEC 60598-1:2020, MOD)

IEC 60695-2-10 Fire hazard test Part 2-10: Glow wire/hot wire basic test method Glow wire device and general test