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

GB/T 43723-2024

**Semi-integrated LED-lamps for general lighting services with
supply voltages not exceeding 50V a.c.r.m.s. or 120V ripple free
d.c.-Performance requirements**

普通照明用电源电压不大于交流有效值50V或无纹波直流120V的半集成式LED灯
性能要求

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

This document was proposed by China Light Industry Federation.

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The power supply voltage for general lighting is not greater than the AC effective value 50V or ripple-free DC 120V Semi-integrated LED lamp performance requirements

1 Scope

This document specifies the LED light source, control unit and lamp holder integrated into a single unit for general lighting in homes and similar occasions.

The classification and model naming, technical requirements, test methods and sample size for compliance testing of semi-integrated LED lamps (hereinafter referred to as "lamps") are as follows. This document applies to.

- Rated power 60W and below;
- The power supply voltage is not greater than AC effective value 50V or ripple-free DC 120V;
- The lamp holder complies with the requirements of 6.1 of GB/T 43626-2023;
- Directional semi-integrated LED lamp with appearance similar to the reflective halogen lamp MR11, MR16, AR111 series.

NOTE 1 The term "lamp" used in this document refers to "directional semi-integrated LED lamp". Other types of lamps are under consideration.

Note 2. The power supply to the lamp is usually a converter/inverter designed for incandescent or halogen lamps, such as an inductive transformer, electronic transformer or LED-specific Used control device [see Figure 1b) in GB/T 43626-2023].

2 Normative references

GB/T 7249

GB/T 14094

GB/T 24826

GB/T 29295-2012

GB/T 43626-2023

3 Terms and definitions

The terms and definitions defined in GB/T 24826 and the following apply to this document.

3.1

Directional semi-integrated LED lamp directional semi-integrated LED lamp; LED silamp The lamp holder meets the requirements of Table 1 of GB/T 43626-2023, and contains LED light source and control unit and other components as one.

LED lamps cannot be disassembled without damaging their structure. This type of lamp needs to be connected to the output power of an external control device to work properly.

The lamp concentrates at least 80% of its luminous flux within a solid angle of π sr (equivalent to the solid angle of a 120° cone).

3.2 The ripple voltage component does not exceed a certain value

Ripple free DC voltage ripple free.c.

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