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

GB/T 19652-2023

Replacing GB 19652-2005

**Discharge lamps (excluding fluorescent lamps) - Safety
specifications**

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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 19652-2005 "Safety Requirements for Discharge Lamps (Except Fluorescent Lamps)": Compared with GB 19652-2005, except for the structure

In addition to adjustments and editorial changes, the main technical changes are as follows:

---Changed the terminology of "UV Hazardous Efficacy of Photovisual Radiation", "Group", "Family", "Delivery Test" and "Metal Halide Lamp with Self-Protective Screen"

Righteousness (see Chapter 3, Chapter 3 of the:2005 edition);

---Changed the additional content of the logo (see 4:2:2, 4:2:2 of the:2005 version);

- Changed the requirements for creepage distance (see 4:3:1:2, 4:3:1:2 of the:2005 version);
- Added qualification inspection requirements for accidentally energized parts (see 4:4:1);
- Changed the corresponding requirements for insulation resistance (see 4:4:2, 4:4:2 of the:2005 edition);
- Changed the corresponding requirements for electrical strength (see 4:4:3,:2005 version of 4:4:3);
- Added photobiological requirements (see 4:6);
- Changed the special safety requirements for high-pressure sodium lamps and metal halide lamps (see Chapter 5, Chapter 5 of the:2005 edition);
- Added "Do not look at the light source symbol" (see Appendix B);
- Added "Tolerance Test Procedures for Metal Halide Lamps with Quartz Arc Tubes" and "Metal Halide Lamps with Ceramic Arc Tubes"

Tolerance test procedure" (see Appendix G, Appendix H):

This document is modified to adopt IEC 62035:2016 "Safety Specifications for Discharge Lamps (Except Fluorescent Lamps)":

Compared with IEC 62035:2016, this document has made the following structural adjustments:

- Appendix B corresponds to Appendix H in IEC 62035:2016;
- Appendix C corresponds to Appendix B in IEC 62035:2016;
- Appendix D corresponds to Appendix C in IEC 62035:2016;
- Appendix E corresponds to Appendix D in IEC 62035:2016;
- Appendix F corresponds to Appendix E in IEC 62035:2016;
- Appendix G corresponds to Appendix I in IEC 62035:2016;
- Appendix H corresponds to Appendix J in IEC 62035:2016;
- Appendix I corresponds to Appendix F in IEC 62035:2016;
- Appendix J corresponds to Appendix K in IEC 62035:2016;
- Appendix K corresponds to Appendix G of IEC 62035:2016:

The technical differences between this document and IEC 62035:2016 and their reasons are as follows:

- Replaced IEC 60598-1:2014 with GB/T 7000:1-2023, IEC 60598-1:2014 has been

replaced (see Chapter 4);

---Replaced IEC TR62778:2012 with GB /Z 39942, and IEC TR62778 has been withdrawn (see 4:6:2):

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 the safety requirements for discharge lamps (other than fluorescent lamps) for general lighting:

This document applies to low-pressure sodium lamps and high-intensity discharge lamps (HID), i.e: high-pressure mercury lamps (including hybrid lamps), high-pressure sodium lamps and metal halides

lamp: This document applies to both single-ended lamps and double-ended lamps: Appendix A lists the lamp holder models used:

This document only covers safety requirements and does not include performance requirements: For performance requirements, see IEC 60188, IEC 60192, IEC 60662, IEC 61167 and IEC 61549:

Lamps complying with this document are rated at 90% to 110% of the rated supply voltage when equipped with corresponding ballasts, starting devices and lamps:

Work safely, with ballasts in accordance with the requirements of IEC 61347-2-9 and IEC 60923, and starting devices in accordance with IEC 61347-2-1 and

In accordance with the requirements of IEC 60927, the lamps shall comply with the requirements of GB/T 7000:1:

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

GB /Z 39942 applies GB/T 20145 to evaluate the blue light hazards of light sources and

lamps (GB /Z 39942-2021, IEC TR62778:

2014,IDT)

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

lary(IEV)-Part 845:Lighting]

Note: GB/T 2900:65-2023 Electrical Terminology Lighting (IEC 60050-845:2020, IDT)

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) Inspection gauge for lamp holders and lamp holders (IEC 60061-3)

IEC 60061-4 Lamp caps, lampholders and test standards for interchangeability and safety - Part 4: Guidance and general information (Lamp

Note: GB/T 21098-2022 Lamp caps, lamp holders and gauges for testing their safety and interchangeability Part 4: Guidelines and general information (IEC 60061-4:

2018,IDT)

Note: GB/T 13259-2021 High-pressure sodium lamp performance requirements (IEC 60662:2011, NEQ)

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