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

GB/T 19510.201-2023

Replacing GB 19510.2-2009

**Controlgear for light sources - Part 2-1: Particular requirements
for starting devices(other than glow starters)**
(English Translation)

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Foreword

This document is drafted in accordance with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents":

This document is Part 2-1 of GB/T 19510 "Light Source Control Device": GB/T 19510 has published the following parts:

- Part 1: General requirements and safety requirements;
- Part 2-1: Special requirements for starting devices (except glow starters);
- Part 2-2: Special requirements for DC/AC electronic buck converters for tungsten lamps;
- Part 2-3: Special requirements for AC and/or DC electronic control devices for fluorescent lamps;
- Part 2-7: Special requirements for electronic control devices powered by safety service power supply (ESSS) for emergency lighting (self-contained);
- Part 2-8: Special requirements for ballasts for fluorescent lamps;
- Part 2-9: Special requirements for electromagnetic control devices for discharge lamps (except fluorescent lamps);
- Part 2-10: Special requirements for electronic inverters and frequency converters for high-frequency cold start tubular discharge lamps (neon lamps);
- Part 2-11: Special requirements for miscellaneous electronic circuits used with lamps;
- Part 2-12: Special requirements for DC or AC electronic ballasts for discharge lamps (except fluorescent lamps);
- Part 2-13: Special requirements for DC or AC electronic control devices for LED modules:

This document replaces GB 19510.2-2009 "Lamp control devices - Part 2: Special requirements for starting devices (except glow starters)" "Requirements", compared with GB 19510.2-2009, in addition to structural adjustments and editorial changes, the main technical changes are as follows:

- Added the term and definition of "maximum shell temperature under abnormal conditions" (see 3.7);
- Added marking requirements for the maximum allowable shell temperature (see 7.1);
- Change the title of Chapter 15 to "Heating of built-in and independent starting devices" (see Chapter 15, GB 19510.2-2009 of Chapter 15);
- Added general requirements for heating of built-in and independent starting devices (see 15.1);
- Added normal working requirements for heating of built-in and independent starting devices (see 15.2);
- Added abnormal working requirements for built-in and independent starting devices (see 15.3);
- Change "dielectric strength" to "electrical strength" (see Chapter 12 and 15:2, Chapter 12 and 15:2 of GB 19510.2-2009):

This document is modified to adopt IEC 61347-2-1:2013 "Lamp control devices - Part 2-1: Starting devices (except glow starters)" special requirements":

The technical differences between this document and IEC 61347-2-1:2013 and their reasons are as follows:

- Replaced IEC 61347-1 with normative reference GB/T 19510.1-2023 (see Chapter 3 ~ Chapter 15, Chapter 18 ~ Chapter Chapter 22, Appendix A~Appendix H), in order to adapt to my country's technical conditions and increase operability;
- Replaced IEC 60155 (see Chapter 14, 17:1, 18:3) with normatively quoted GB/T 20550-2013 to adapt to my country's Technical conditions and increased operability;
- Replaced IEC 60598-1 (see Chapter 15) with the normatively cited GB/T 7000.1-2023 to adapt to my country's technical regulations components to increase operability;
- Replaced IEC 60052 (see Chapter 16, Appendix J) with normative reference GB/T 311.6-2005 to adapt to my country's technology conditions, increase operability;
- Replaced IEC 60068-2-75 (see I:1) with the normatively cited GB/T 2423.55-2023 to adapt to my country's technical conditions components to increase operability:

The following editorial changes have been made to this document:

- In order to coordinate with the existing standards, the name of the standard is changed to "Light source control device - Part 2-1: Starting device (except glow starter)" "Special requirements outside the country";
- Replaced IEC 61347-2-8 with the informative reference GB/T 19510.208-2023 (see Chapter 1);

---Replaced IEC 61347-2-9 with the informative reference GB/T 19510.209-2023 (see Chapter 1);

---Replaced IEC 60927 with the informative reference IEC 60927:2013 (see Chapter 1, 3:7):

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

Introduction

With the development of light source control device technology, the safety specifications of the previous version of the light source control device can no longer be adapted to meet the current light source control requirements:

Technical requirements and product safety requirements of the device: Safety requirements ensure that electrical equipment is correctly installed, maintained and used in the manner intended Reduce harm to people, livestock or property: GB/T 19510 "Light Source Control Device" updates the technical and safety requirements to the regulations:

It is of great significance to standardize light source control devices, reduce product safety risks, improve product quality, and enhance the competitiveness of our products:

GB/T 19510 aims to standardize light source control devices and is intended to consist of the following parts:

---Part 1: General requirements and safety requirements: The purpose is to standardize the general requirements for control devices and their safety requirements:

---Part 2-1: Special requirements for starting devices (except glow starters): The purpose is to standardize starting devices (except glow starters) (external) special requirements for safety requirements:

---Part 2-2: Special requirements for DC/AC electronic step-down converters for tungsten lamps: The purpose is to standardize the direct use of tungsten filament lamps Special requirements for safety requirements of current/AC electronic buck converters:

---Part 2-3: Special requirements for AC and/or DC electronic control devices for fluorescent lamps: The purpose is to standardize AC for fluorescent lamps and/or special requirements for safety requirements of DC electronic control devices:

---Part 2-7: Special requirements for electronic control devices powered by safety service power supplies (ESSS) for emergency lighting (self-contained): Purpose Special requirements for regulating the safety requirements of electronic control devices powered by safety service power supplies (ESSS) for emergency lighting (self-contained):

---Part 2-8: Special requirements for ballasts for fluorescent lamps: The purpose is to