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

**GB/T 17262-2011**

Replacing GB/T 17262-2002

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**Single-capped fluorescent lamps -- Performance specification**

单端荧光灯 性能要求

**(English Translation)**

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## Foreword

This standard corresponds to IEC 60901 "single-ended fluorescent lamp performance requirements" (English Version) Version 2.4 (2007).

This standard and IEC 60901:2007 is not equivalent degree of consistency.

This standard is based on IEC 60901:2007 "single-ended fluorescent lamp performance requirements" redrafting.

This standard replaces GB/T 17262-2002 "single capped fluorescent lamps - Performance requirements." this standard and the "single-ended fluorescent lamp performance requirements" The main difference compared to the GB/T 17262-2002 as follows.

--- Original standard in aggregate table shows the various technical parameters of single-ended fluorescent lamps, and this revision of the standard in accordance with IEC Standard original format, in the form of loose-leaf gives the size of a single-ended fluorescent lamps, electrical parameters, characteristics of the cathode and ballast design Parameters, etc., in order to correspond to international standards; luminous efficiency, color and lifetime characteristics of the lamp parameter is still given in summary form, indicators slightly Improved.

--- This revision reference IEC 60901 revision of the original standard based on the increase of the following power specifications.

a) external AC power frequency band starts working boot twin 27W, 30W single-ended

preheated cathode fluorescent lamp;

b) the use of the AC supply frequency operation started four 27W single-ended cathode fluorescent lamp preheating;

c) AC power frequency and high-frequency non-starter to start working outside the square 18W, 24W, 36W single-ended cathode preheating Fluorescent lamps;

d) the use of high-frequency operation starts outside the double tube 80W, multi-tube 57W, 60W, 62W, 70W, 85W, 120W, and ring Shaped Phi3841W, 68W, 97W, Phi2922W, 32W, 40W, Phi1620W, 27W, 34W, 41W, 60W pre Hot cathode fluorescent single-ended.

--- Original standard total of 7 Appendix. Test Method A single-ended fluorescent lamp startup characteristics Appendix; optical parameters in Appendix B of the lamp test side Method; C life test method Appendix; Appendix D rated color characteristics; Appendix E in the form of single-ended fluorescent lamps; Appendix F AC Single-ended fluorescent ballast reference frequency characteristics of the power supply work; Appendix G high frequency fluorescent lamp and ballast design parameters. The repair After the set, a total of 8 Appendix. A startup characteristics - Test methods Appendix; B photoelectric characteristics and cathode performance test method Appendix;

Appendix C lumen maintenance and life test methods; Appendix D ballast and starter design parameters; Appendix E lighting design parameters;

Appendix F logo, packaging, transportation and storage; inspection rules in Appendix G; H form a single-ended fluorescent appendix.

The Standard Appendix A, Appendix B, Appendix C, Appendix F, Appendix G, Appendix H normative appendix, Appendix D, Appendix E for information only appendix.

The standard proposed by China National Light Industry Council.

This standard by the National Standardization Technical Committee of electrical lighting (SAC/TC224) centralized.

This standard was drafted. Zhejiang Sunshine Group Co., Ltd., Beijing Institute of electric light source Osram (China) Lighting Co., Ltd., North Beijing Matsushita Lighting Co., Ltd., Guangdong-Wright Optoelectronics Technology Co., Ltd., Hangzhou-high in Hong lighting Electric Co., Ltd., Zhejiang Changxing Jiabao Electronics Co., Ltd., Hengdian State Electronics Co., the National Electric Light Source Quality Supervision and Inspection Center (Shanghai).

## 1 Scope

This standard specifies the single-ended fluorescent lamps for general lighting performance requirements.

This standard includes the following external device using a lamp ballasts.

- a) within the AC mains frequencies of single-ended to start preheating cathode fluorescent lamp;
- b) AC power frequency and high-frequency band to start working outside the single-ended to start preheating cathode fluorescent lamp;
- c) AC power frequency and high-frequency non-starter to start-up work outside the single-ended cathode fluorescent lamp;
- d) the use of high-frequency preheating start working outside the single-ended cathode fluorescent lamp;
- e) high frequency preheat start working outside the single-ended cathode fluorescent lamps.

For some of the requirements of this standard lamp given, see the "light of the relevant data leaflet." Compliance with this standard lamp, when used in line with GB/T 14044 or GB/T 15144 and compliance with ballast or GB 20550 GB/T 19655-2005 launcher and installed in compliance with GB 7000.1-2007 lamps, the application of 92% to 106% of rated power Voltage, at an ambient temperature of 10 °C ~ 50 °C ignition, a smooth start-up and normal operation.

**NOTE:** For some light, at ambient temperature to -15 °C normal start of the high-frequency ballast provides for additional design parameters.

## 2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 1406.2 lamp types and dimensions - Part 2. Pin-type lamp (GB/T 1406.2-2008, IEC 60061-1.

2005, MOD)

GB/T 1483.2 Lamp caps Gauges - Part 2. pin-type lamp holder gauge (GB/T 1483.2-2008, IEC 60061-3:2004, MOD) GB/T 2828.1 Sampling procedures for inspection - Part 1. by acceptance quality limit (AQL) retrieval batch inspection sampling plan (GB/T 2828.1-2003, ISO 2859-1:1999, IDT) GB/T 2829 Periodic inspection Sampling procedures and tables (suitable for process stability test) GB/T 2900.65 Electrotechnical terminology Lighting (GB/T 2900.65-2004, IEC 60050 (845). 1987, MOD) GB 7000.1-2007 Lamps - Part 1. General requirements and tests (IEC 60598-1:2003, IDT) GB/T 10682 double-ended

fluorescent lamps - Performance requirements GB/T 14044 for tubular fluorescent ballasts Performance requirements (GB/T 14044-2008, IEC 60921:2006, MOD) GB/T 15144-2009 tubular fluorescent lamps with electronic ballasts Performance requirements (IEC 60929:2006, IDT) GB 16843 Single-capped fluorescent lamps - Safety requirements (GB 16843-2008, IEC 61199:1999, IDT) GB/T 19655-2005 lamps Starting devices (other than glow starters) Performance requirements (IEC 60927:1996, IDT) GB 20550 fluorescent glow starter (GB 20550-2006, IEC 60155:1993, IDT)

### **3 Terms and Definitions**

GB/T 2900.65 determined and the following terms and definitions apply to this standard.