

ICS 29.140.30
CCS K 74



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

GB/T 19655-2016

Replacing GB/T 19655-2005

**Auxiliaries for lamps -- Starting devices (other than glow
starters) -- Performance requirements**
(English Translation)

Issued on: April 25, 2016

Implemented on: November 1, 2016

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine of the People's Republic of China**

Table of Contents

Preface
1 Scope
2 Normative reference document
3 Terms and definitions
4 General requirements
4.1 Environmental conditions, number of tests and test sequence
4.2 Power supply voltage
4.3 Corresponding safety requirements
4.4 Immunity
4.5 Related lights standard
5 Logo
6 Performance requirements for fluorescent starters (except glow starters)
6.1 Start test
6.2 Durability test
6.3 To activate the lamp test
7 Trigger Performance Requirements
7.1 Start test
7.2 Non-repetitive working level
7.3 Durability test
Appendix A (Normative Appendix) Ballast for Life Test
Appendix B (informative) Description of the start-up conditions for electronic starters with electronic switch components
Appendix C (informative) Method of assessment of product life and failure rate
Reference

Foreword

This standard is drafted in accordance with the rules given in GB/T 1.1-2009.

This standard replaces GB/T 19655-2005 "Lamp accessories with start-up device (except glow starter) performance requirements", and GB/T 19655-2005 compared to the main technical content changes are as follows.

- delete the title of the first, second, and third articles (see 2005 edition);

- This standard is revised to 7 chapters, all chapters of the section number of all adjustments (see full text, 2005 edition full text);
- Amend the scope of Chapter 1 by adding "Note 2" (see Chapter 1);
- changes to the standard in the "normative reference" (see Chapter 2, Edition 1.1.);
- the definition of "start-up auxiliary" has been modified (see 3.6, 2005 2.6);
- to modify and add headings to the contents of the "general requirements for the trial" and to increase the content of the relevant "lamp standards" (see Chapter 4, 2005 edition of Chapter 3);
- Amend the contents of the "Note" of the "Start-up Accessory Requirements" in Table 1 (see Table 1 in Table 1, 2005, Edition 6.3.1 of Table 6.1) - "In the performance requirements of the" Fluorescent starter (except glow starter) "in the" equipped with mechanical switch parts of the starter "in the "Work speed" and "non-repeatable start-up" section to modify the contents;
- Modify the contents of the "Switching Speed" section in the "Startup Test" in the "Performance Requirements for Triggers" (see 7.14, 2005 Version 10.4);
- Change the "cutoff frequency" to "Bandwidth", "Bandwidth. ≥ 10 MHz" in the "Pulse Voltage" clause to "Bandwidth.
- ≥ 50 MHz "(see 6.1.4.3, 7.1.5 and 7.16, 2005, 6.4.3, 10.5 and 10.6);
- Amendments to the contents of Appendix A (see Appendix A, Appendix A of 2005);
- a note to B.4.1 of Appendix B (see B.4.1, see 2005, B.4.1);
- increase the "reference" content.

This standard uses the translation method equivalent to IEC 60927.:2007 "Lamp accessories with start-up device (except glow starter) performance Seeking "(English version).

In this part of the normative reference to the international documents have a consistent correspondence between the following documents.

GB 7000.1-2007 lamps - Part 1. General requirements and tests (IEC 60598-1.:2003, IDT)
GB/T 10682-2010 double-ended fluorescent lamp performance requirements (IEC 60081.:2005, NEQ) GB/T 13259-2005 High pressure sodium lamp (IEC 60662.:2002, NEQ)
GB/T 14044-2008 Ballasts for tubular fluorescent lamps - Performance requirements (IEC 60921.:2006, MOD) GB/T 15042-2008 Lamp accessories - Performance requirements for ballasts for discharge lamps (excluding tubular fluorescent lamps) (IEC 60923. 2006, IDT)
GB/T 17262-2011 single-ended fluorescent lamp performance requirements (IEC

60901.:2007, NEQ) GB/T 18595-2014 Electromagnetic compatibility immunity requirements for general lighting equipment (IEC 61547.:2009, IDT) Control devices for lamps - Part 1. General requirements and safety requirements (IEC 61347-1.:2007, IDT) GB 19510.2 - Lamp controlgear - Part 2. Particular requirements for start - up devices (except glow starters) (IEC 61347-2-1.:2006, IDT) GB 19510.10-2009 Lamp controlgear - Part 10. Particular requirements for ballasts for discharge lamps (except fluorescent lamps) (IEC 61347-2-9.:2003, IDT) GB/T 23126-2008 low pressure sodium lamp performance requirements (IEC 60192.:2001, MOD) Metallic halide lamps (rare earth series) - Performance requirements (IEC 61167.:1998, NEQ) GB/T 24457-2009 this standard is proposed by the China Light Industry Federation.

This standard by the National Lighting Standardization Technical Committee (SAC/TC224) centralized.

The drafting of this standard. Foshan City, the whole Electric Lighting Co., Ltd., Hengdian Group was state Lighting Co., Ltd., Beijing Electric Light Source Research Institute.

1 Scope

This standard specifies the use of no more than 1000V, 50Hz or 60Hz AC power of the tubular fluorescent lamps and other discharge lights with the start Device (starter and trigger) performance requirements, this starting device can produce no more than 5kV start pulse.

This standard is used with IEC 61347-1 and IEC 61347-2-1.

Note 1: The requirements for all glow starters (including thermal relays/circuit breakers) for fluorescent lamps and other discharge lamps are given in IEC 60155.

Note 2: The terms of EMC requirements for end products of lamps and independent control devices are regional standards. In the fixture, the control device is in the EMC Aspects play a major role. Control devices and other components are suitable for these standards.

2 Normative reference documents

The following documents are indispensable for the application of this document. For dated references, only the dated edition applies to this article Pieces. For undated references, the latest edition (including all modifications) applies to this document.

IEC 60081 double-ended fluorescent lamp performance requirements
(Double-cappedfluorescentlamps-Performancespecifica-tions IEC 60192 low pressure sodium lamp performance requirements
(Low-pressuresodiumvapourlamps-Performancespecifica-tions IEC 60598-1.:2003 AMD1..2006 Lamps - Part 1. General requirements and tests (Luminaires - Part 1. Generalrequirementsandtests1)) Amendment 1 (Amendment 1)

1) has an integrated version of 6.1, including IEC 60598-1 (2003) and its revision (2006).

IEC 60662 high-pressure sodium lamp (High-pressure sodium vapour lamps) IEC 60901
single-ended fluorescent lamp performance requirements
(Single-capped fluorescent lamps - Performance specifications IEC 60921 Ballasts for tubular
fluorescent lamps Performance requirements
(Ballasts for tubular fluorescent lamps - Performance requirements IEC 60923 Lamp
accessories Discharge lamp (except for tubular fluorescent lamps) Ballast performance
requirements (Auxiliaries for lamps - Ballasts for discharge lamps
(excluding tubular fluorescent lamps) - Performance requirements IEC 61167 Metal halide
lamps (Metal halide lamps) Control devices for IEC 61347-1 lamps - Part 1. General
requirements and safety requirements (Lamp control gear - General and safety requirements
IEC 61347-2-1 Lamp control gear - Part 2. Particular requirements for starting devices
(except glow starters) [Lamp control gear - Particular requirements for starting devices
(other than glow starters)] IEC 61347-2-9 Lamp control device Special requirements for
ballasts for discharge lamps (except fluorescent lamps)
[Lamp control gear - Particular requirements for ballasts for discharge lamps
(excluding fluorescent lamps) IEC 61547 General lighting equipment Electromagnetic
compatibility immunity requirements
(Equipment for general lighting purposes - EMC immunity requirements)