

ICS 13.220.20

CCS C81



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

GB 23757-2025

Replacing GB 23757-2009

Protection requirements for fire electronic products

消防电子产品防护要求

Issued on: October 5, 2025

Implemented on: November 1, 2026

**Issued by: State Administration for Market Regulation;
Standardization Administration of China**

Table of Contents

- 1 Scope
- 2 Normative references
- 3 Radio frequency electromagnetic field radiated immunity testing
- 4 Usage Environment

Foreword

This document conforms to GB/T 1.1-2020 "Standardization Work Guidelines Part

1. Structure and Drafting Rules of Standardization Documents". Drafting is scheduled. This document replaces GB 23757-2009 "Requirements for Protection of Electronic Products in Fire Protection". Compared with GB 23757-2009, the main differences are structural adjustments and... Aside from editorial changes, the main technical changes are as follows:

- a) The normal operating environment has been improved (see 4.2);
- b) Special usage environments have been added (see 4.3);
- c) Added normal monitoring status (see 4.4);
- d) The strength requirements for materials and components have been changed (see 5.1, 3.2.2 in the 2009 edition).
- e) Terminal requirements have been changed (see 5.2, 3.2.3 of the 2009 edition);
- f) The protective grounding requirements have been changed (see 5.3, 3.2.4 of the 2009 edition).
- g) Added product requirements applicable to normal use environments (see 6.1);
- h) Added product requirements applicable to special use environments (see 6.2);
- i) Increased temperature rise requirements (see 6.3);

1 Scope

GB 23757-2025 is the Chinese national standard on protection requirements for fire electronic products, in the field of environment and health protection, safety. It carries no /T suffix, which in the Chinese system means compliance is mandatory: a product or a practice within its scope has to meet it to be lawfully made, sold or carried out in China. It

was issued on 5 October 2025 by the State Administration for Market Regulation; Standardization Administration of China, and takes effect on 1 November 2026.

Classification: ICS 13.220.20, CCS C81. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are listed below. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 4026-2019 Basic and Safety Rules for Human-Machine Interface Markings - Identification of Equipment Terminals, Conductor Ends and Conductors

GB/T 4208-2017 Degrees of protection provided by enclosures (IP codes)

GB/T 5169.5-2020 Fire Hazard Testing of Electrical and Electronic Products - Part 5. Test Flame Needle Flame Test Method and Apparatus Validate test methods and guidelines

GB/T 5169.10-2017 Fire Hazard Testing of Electrical and Electronic Products - Part 10. Basic Test Methods for Glow Wire/Hot Wire Hot Wire Apparatus and General Test Methods

GB/T 5169.11-2017 Fire Hazard Testing of Electrical and Electronic Products - Part 11. Basic Test Methods for Glow Wire/Hot Wire Glow wire flammability test method (GWEPT)

GB/T 5465.2 Graphical symbols for electrical equipment - Part

GB/T 16838 Environmental testing methods and severity levels for fire protection electronic products

GB/T 17626.2 Electromagnetic compatibility testing and measurement techniques - Electrostatic discharge immunity test

GB/T 17626.3 Electromagnetic compatibility testing and measurement techniques - Part

3 Radio frequency electromagnetic field radiated immunity testing

GB/T 17626.4 Electromagnetic compatibility testing and measurement techniques -

Electrical fast transient/burst immunity test

GB/T 17626.5 Electromagnetic compatibility testing and measurement techniques - Surge (impulse) immunity test

GB/T 17626.6 Electromagnetic compatibility testing and measurement techniques - Conducted disturbance immunity induced by radio frequency fields

GB/T 17626.8 Electromagnetic compatibility testing and measurement techniques - Power frequency magnetic field immunity test

GB/T 17626.11 Electromagnetic compatibility testing and measurement techniques - Part

11. For input currents less than or equal to 16 A per phase, the following applies. Voltage sag, short interruption and voltage change immunity tests

4 Usage Environment

4.1 General Rules When fire protection electronic products (hereinafter referred to as "products") need to be classified according to the usage environment, they shall be classified according to the usage environment conditions specified in this chapter.