

ICS 13.310
CCS A91



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

GB/T 15408-2011

Replacing GB/T 15408-1994

**Technical requirement of power-supply for security &
protection system**

安全防范系统供电技术要求

Issued on: June 16, 2011

Implemented on: December 1, 2011

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

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Foreword

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

GB/T 15408-1994 "Alarm system power units, test methods and performance criteria," the revised and standard name Changed to "security system power supply technology requirements." This standard compared with GB/T 15408-1994, the main technical changes are as follows:

- Alarm system power units to expand the power supply system for the security system, the power supply performance requirements, expand security Performance of the system power supply system requirements, configuration requirements of the principle of comprehensive, system management, power supply equipment installation requirements (see GB/T 15408-1994, Chapter 5, Chapter 6, Chapter 7, Chapter 8, Chapter 9);
- Clear interface with the power supply system and the relationship between the city grid (see 5.2.3,5.2.4);
- Clear security system power supply protection requirements (see 5.4);
- Clear each subsystem power requirements (see 5.9,5.10,5.11,5.12);
- Clearly safety, electromagnetic compatibility requirements (see 6.1, 6.3);
- Increase energy efficiency, environmental protection and other requirements (see 8.4,8.5,6.4.2,6.3.2);
- Increased interface with the relationship between the content supply device and the load (see 9.1.3,9.1.4);
- Clear security systems powered equipment selection requirements (see Chapter 9);
- Increase the number of informative annex (see Appendix A, Appendix B, Appendix C, Appendix D). Please note that some of the content of this document may involve patents. Release mechanism of the present document does not assume responsibility for the identification of these patents. The standard proposed by the People's Republic of China Ministry of Public Security. This standard by the National Security Alarm System Standardization Technical Committee (SAC/TC100) centralized. This standard was drafted. Beijing in the security shield technology development company, Beijing Univision Aegis Security Technology Co., Ltd., the Ministry of Public Security Police Electronic Products Quality Inspection Center, Ministry of Public Security First Research Institute of China Building Standard Design and Research Institute, Guangdong Zhicheng Champion Group Co., Ltd. The main drafters of this standard. Yang Guosheng, Li Xiulin, Jin Wei, Sun Lan, Li Minying. This standard replaces the standards previously issued as follows:
- GB/T 15408-1994. Security system supply technical requirements

1 Scope

GB/T 15408-2011 is the Chinese national standard on technical requirement of power-supply for security & protection system, in the field of environment and health

protection, safety. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 16 June 2011 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 December 2011. Classification: ICS 13.310, CCS A91. 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.

This standard specifies the security requirements of the system power supply technology, the security system power supply system design, equipment selection, installation. The fundamental basis for the construction, testing and acceptance. This standard applies to security (hereinafter referred to as security) system power supply design, installation, testing and acceptance.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB 4208-2008 shell protection (IP code)

GB 4943-2001 Safety of information technology equipment

GB 8702 electromagnetic radiation protection

GB/T 14549 Power quality utility grid harmonic

GB/T 15211 alarm system environmental testing

GB 17625.1 Electromagnetic Compatibility Limits for harmonic current emissions (equipment input current $\leq 16\text{A}$) GB /Z17625.6 harmonic electromagnetic compatibility limits rated current greater than 16A devices in low-voltage power supply systems Limit flow

GB/T 17626.2-2006 Electromagnetic compatibility - Testing and measurement techniques - Electrostatic discharge immunity test

GB/T 17626.3-2006 Electromagnetic compatibility - Testing and measurement techniques RFEMS test

GB/T 17626.4-2008 Electromagnetic compatibility - Testing and measurement techniques - Electrical fast transient burst immunity test

GB/T 17626.5-2008 Electromagnetic compatibility - Testing and measurement techniques -

Surge (impact) immunity test

GB/T 17626.6-2008 Electromagnetic compatibility - Testing and measurement techniques
Immunity to conducted disturbances induced field

GB/T 17626.11-2008 Electromagnetic compatibility Testing and measurement techniques -
Voltage dips, short interruptions and voltage variations immunity test

GB 50057 Lightning in design

3 Terms, definitions and abbreviations

3.1 Terms and Definitions JGJ16-2008 define the following terms and definitions apply to this document.

3.1.1 Main power mainpowersupply Support security systems or equipment fully functioning power source.