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

GB 4943.22-2019

**Information technology equipment -- Safety -- Part 22:
Equipment to be installed outdoor**

信息技术设备 安全 第22部分：室外安装设备

(English Translation)

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References

Foreword

The entire technical content of this part of GB 4943 is mandatory.

GB 4943 Information Technology Equipment Security is intended to be divided into the following sections.

- Part 1. General requirements;
- Part 21. remote feed;
- Part 22. outdoor installation equipment;
- Part 23. Large data storage devices.

This section is Part 22 of GB 4943.

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

This part uses the redrafting method to modify and adopt IEC 60950-22:2005 "Information Technology Equipment Safety Part 22. Outdoor Installation device".

The technical differences between this part and IEC 60950-22:2005 and their causes are as follows.

--- Regarding the normative references, this section has made adjustments with technical differences to adapt to China's technical conditions and the situation of adjustment. The situation is reflected in Chapter 2 "Regulatory Reference Documents", and the specific adjustments are as follows.

- Replace ISO 180 with GB/T 1843-2008 equivalent to the international standard;
- Replaced ISO 1817:2005 with GB/T 1690-2010 that adopted the international standard;
- Replace IEC 60068-2-11:1981 with GB/T 2423.17-2008 equivalent to the international standard;
- Replace IEC 60529 with GB/T 4208-2017 equivalent to the international standard;
- Replace IEC 60950-1:2005 with GB 4943.1-2011 which adopts the international standard;
- Replace ISO 178 with GB/T 9341-2008 equivalent to the international standard;
- Replace ISO 4892-1 with GB/T 16422.1-2006 equivalent to the international standard;
- GB/T 16422.2-2014 equivalent to the international standard is used instead of ISO 4892-2;
- GB/T 16422.4-2014 equivalent to the international standard is used instead of ISO

4892-4;

- GB/T 16895 (all parts) adopting international standards instead of IEC 60364 (all parts), each part of the two standards The degree of consistency between them is as follows.

- * GB/T 16895.5-2012 Low-voltage electrical installations Part 4-43. Safety protection overcurrent protection (IEC 60364-4-43:2008, IDT);

- GB/T 1040 (all parts) using international standards instead of ISO 527 (all parts);

- GB/T 1043 (all parts) adopting international standards instead of ISO 179 (all parts);

- Replace IEC 61643 (all parts) with GB/T 18802 (all parts) using international standards.

--- 10.2 of IEC 60950-22:2005 stipulates that "the test temperature when the minimum ambient temperature is not specified is -33 °C"; this section changes it to "if no minimum ambient temperature is specified, the following temperature shall be used: -50 °C for the cold zone, -33 °C for other zones". And increase the low temperature treatment time to 24h, increase the maximum time between low temperature treatment and impact test The interval is 2min.

--- 4.1 of IEC 60950-22:2005 stipulates "minimum ambient temperature: -33 °C"; this section is changed to "minimum ambient temperature: cold zone -50 °C, other areas -33 °C", and adds "Note 4: See GB/T 4797.1 for cold zones".

The following editorial changes have been made in this section.

--- According to the requirements of GB/T 1.1-2009, the chapter on scope has been rewritten.

1.1 Applicable equipment

This section of GB 4943 specifies additional safety requirements for information technology equipment intended for installation in outdoor locations.

This section applies to information technology equipment intended to be installed in outdoor locations. It also applies to the use of indoor information technology equipment in outdoor locations. The empty case provided at the time of use.

1.2 Additional requirements

Each installation can have special requirements. Some examples are given in 4.2. In addition, protection against direct lightning strikes on outdoor equipment Requirements are not included in this section. See IEC 61024-1 for information on this.

2 Normative references

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

GB/T 1040 (all parts) Determination of tensile properties of plastics [ISO 527 (all parts)]

GB/T 1043 (all parts) Determination of impact properties of simply supported plastic beams [ISO 179 (all parts)]

GB/T 1690-2010 Test method for liquid resistance of vulcanized rubber or thermoplastic rubber (ISO 1817:2005, MOD)

GB/T 1843-2008 Determination of impact strength of plastic cantilever beams (ISO 180:2000, IDT)

GB/T 2423.17-2008 Environmental testing for electric and electronic products Part 2: Test methods Test Ka. Salt spray (IEC 60068-2-11:1981, IDT)

GB/T 4208-2017 enclosure protection level (IP code) (IEC 60529:2013, IDT)

GB 4943.1-2011 Information Technology Equipment Safety Part 1: General Requirements (IEC 60950-1:2005, MOD)

GB/T 9341-2008 Determination of flexural properties of plastics (ISO 178:2001, IDT)

GB/T 16422.1-2006 Plastic laboratory light source exposure test methods-Part 1: General (ISO 4892-1:1999, IDT)

GB/T 16422.2-2014 Plastic laboratory light source exposure test methods-Part 2: Xenon arc lamps (ISO 4892-2:2006, IDT)

GB/T 16422.4-2014 Plastic laboratory light source exposure test methods-Part 4: Open carbon arc lamps (ISO 4892-4:2004, IDT)

GB/T 16895 (all parts) Low-voltage electrical installations [IEC 60364 (all parts)]

GB/T 16895.5-2012 Low-voltage electrical installations Part 4-43. Safety protection overcurrent protection (IEC 60364-4-43:2008, IDT)

GB/T 18802 (all parts) Low voltage surge protector [IEC 61643 (all parts)]

ISO 3231 Resistance to Wet Air with Sulfur Dioxide for Paints and Varnishes (Paints and varnishes - Determination of resistance to humid atmospheres containing sulfur dioxide)

ISO 4628-3 Evaluation of degradation of paint and varnish coatings. Number and size of defects and expression of consistent changes in appearance brightness. Method 3. Evaluation of oxidation levels