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

GB 19212.20-2008

**Safety of power transformers, power supply units and similar --
Part 20: Particular requirements for perturbation attenuation
transformers**

电力变压器、电源装置和类似产品的安全 第20部分:干扰衰减变压器的特殊要求
(English Translation)

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Foreword

All technical content in this Part of GB 19212 is mandatory.

GB 19212 "of power transformers, power supply units and similar products" currently proposed is divided into 24 parts.

Part 1. General requirements and tests Part 2. Particular requirements for separating transformers for general use Part 3. Particular requirements for control transformers Part 4. Gas and oil burner ignition transformers for special requirements Particular requirements for isolating transformers for general purposes. Part 5 Part 6. Particular requirements for shaver transformers and shaver supply units Part 7. Particular requirements for safety isolating transformers for general purposes Part 8. Particular requirements for transformers for toys Particular requirements for bell and bell transformers. Part 9 Part 10. Particular requirements for class III portable transformers for filament lamps Part 11. Particular requirements for the operating voltage 1000V above high insulation level transformers Particular requirements for the leakage magnetic transformers. Part 12 Particular requirements for constant voltage transformers. Part 13 Part 14. General Purpose Particular requirements for auto-transformers Part 15. Particular requirements for regulator Part 16. Particular requirements for supply of medical locations isolation transformer Part 17. Particular requirements for power supply units and similar products Part 18. Particular requirements for transformers for switch mode power supplies Part 19. Particular requirements for medical devices for transformers Part 20. Particular requirements for transformers interference attenuation Particular requirements for small reactors. Part 21 Particular requirements for having a special media (liquid medium SF6) transformer. Part 22 Part 23. Electrical transformers have the highest rated temperature of the specific requirements Particular requirements for transformers for construction sites. Part 24 this is Part 20 GB 19212's.

The partial modification using IEC 61558-2-19:2000 (first edition), "Safety of power transformers, power supply units and similar products Part 2-19. Particular requirements for transformers disturbance attenuation "(in English).

This section according to IEC 61558-2-19:2000 redrafted. This part of IEC 61558-2-19:2000 In addition to this technical difference the modified content section, but entirely due to GB 19212.1-2003 "power transformers, power supply units referenced in this section and similar production Product Safety - Part 1. General requirements and tests "(IEC 61558-1:1998, MOD) and IEC 61558-1:1998 Existing technical Differences arising, see GB 19212.1-2003 the foreword. Taking into account China's national conditions, in using IEC 61558-2-19:2000, the present Part made some changes. About the technical differences have been incorporated into the text, and they are involved in terms of the margin of a single vertical line Identity.

For ease of use, this part of IEC 61558-2-19:2000 also made the following editorial

changes.

- a) "this International Standard" be replaced by "this section";
- b) use a decimal point instead of a decimal comma " , " ;
- c) Remove IEC 61558-2-19:2000 Foreword.

Taking into account the actual situation in China, this part of IEC 61558-2-19:2000 in the power supply voltage and rated voltage tolerance aspects it has been modified. IEC standards +6% - 10%, and this part of the country according to national standards, to + 7% - 10%. this Part of IEC 61558-2-19:2000 preferred value in the interference attenuation transformer AC rated output voltage complements increased domestic Common 220V, 380V AC and 36V rated output voltage.

This section is based on GB 19212.1-2003 on the development, it needs to be used in conjunction with GB 19212.1-2003.

This part is the GB 19212.1-2003 corresponding chapter, article supplement and modified so GB of content 19212.1-2003 Conversion-oriented part of the contents. The newly added section for GB 19212.1-2003 Terms numbered starting from 101.

This part is proposed by the China Electrical Equipment Industrial Association.

This part of the National Standardization Technical Committee transformers (SAC/TC44) centralized.

This part by the China Electronics Standardization Institute, Shenyang Transformer Research Institute drafted.

1 Scope

The chapter GB 19212.1-2003 by the following instead.

This section provides various aspects of the transformer (eg, electrical, thermal and mechanical aspects) safety requirements.

This section applies to Stationary or mobile, single-phase or multi-phase, air-cooled (natural cooling or forced cooling), alone or supporting the use of isolation or safety isolating transformer, its rated supply voltage not exceeding AC 1000V, rated frequency not exceeding 500Hz, rated output not exceeding 10kVA. Disturbance attenuation transformer intended to be used as office equipment or similar equipment power supply, the output circuit having a midpoint output to it attenuate conducted interference MAINS.

In addition, the installation procedures and equipment specifications double insulation or reinforced insulation between circuits should be implemented through the use of such a transformer.

Note 1: The use of such a transformer connected to the device specified in this does not mean that

you can reduce the requirements for the device.

Disturbance attenuation isolating transformer.

--- No-load output voltage and rated output voltage exceeding 50V AC or ripple-free DC 120V, but not more than AC 500V or Ripple-free DC 708V; To comply with national wiring regulations or requirements for a particular purpose, no-load output voltage or the rated output voltage these limits may be exceeded, but not exceed 1000V AC or ripple-free DC 1415V.

Disturbance attenuation safety isolating transformer.

--- No-load output voltage or the rated output voltage does not exceed 50V AC or ripple-free DC 120V.

This section applies to dry-type transformers. Windings can be sealed or non-sealed.

If the isolation transformer to two or more devices to provide power, so some of the devices connected to the exposed conductive parts Need to comply with the provisions of 413.5 of IEC 60364-4-41.

Note 2: The media is filled with a liquid or powder material (such as sand) of the transformer, the additional requirements are under consideration.

Note 3: to note the following.

--- For transformer intended to use in a tropical climate countries, special requirements may be necessary;

--- Located in areas of special environmental conditions may require specific requirements.

Note 4: This section does not prevent the use of the output circuit midpoint no other types of transformers as attenuation transformers.

This section does not include the performance of "decay" feature. This function can be different characteristics, e.g., to block or special laminate obtain.

This section also applies to transformers incorporating electronic circuits. This part is not intended to be used with the transformer input and output terminals or output A receptacle connector and an external circuit components.

2 Normative references

GB 19212.1-2003 this chapter apply.

3 Terms and Definitions

In addition to the following entries, GB 19212.1-2003 this chapter apply.

The chapter increased the following entries.