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

GB/T 19212.7-2012

Replacing GB 19212.7-2006

[GB/T 19212.7-2012] Safety of transformers, reactors, power supply units and similar products for supply voltages up to 1 100 V -- Part 7: Particular requirements and test for safety isolating transformers and power supply units incorporating safety isola

电源电压为1 100V及以下的变压器、电抗器、电源装置和类似产品的安全 第7部分：安全隔离变压器和内装安全隔离变压器的电源装置的特殊要求和试验

(English Translation)

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Foreword

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

GB 19212 "of power transformers, power supplies, reactors and similar products -" 1) now includes the following sections.

1) This series of standards, some parts are under "power transformers, power supplies, reactors and similar products," the title, some parts in the "Supply Voltage

For the next 1100V and below transformers, reactors, power supply units and similar products, "the title, the title of this series of standards possible future release

It will be modified.

--- Part 1. General requirements and tests;

--- Part 2. Particular requirements and general purpose test transformer isolated and built separate transformer power supply;

--- Part 3. Specific requirements and test control and built-in control transformer transformer power supply;

--- Part 4. Gas and oil burner ignition transformers for special requirements;

--- Part 5. Particular requirements and tests and built-in isolation transformer isolation transformer power supply device;

--- Part 6. Particular requirements for shaver transformers and shaver supply units;

--- Part 7. Particular requirements and tests for safety isolating transformers and built-in safety isolating transformer power supply device;

--- Part 8. Particular requirements for transformers for toys and power supplies and test;

--- Part 9. Particular requirements for bell and bell transformers;

--- Part 10. Particular requirements for class III portable transformers for filament lamps;

--- Part 13. Particular requirements for constant voltage transformers;

- Part 14. Particular requirements for auto and test transformers and autotransformers built power supply device;
- Part 15. Particular requirements for the regulator;
- Part 16. supply of medical locations Particular requirements for isolating transformers;
- Part 17. switched-mode power supply units and switch-mode power supply unit with the special requirements for transformers and tests;
- Part 20. Particular requirements for interference attenuation transformers;
- Part 21. Small reactors Particular requirements;
- Part 24. Particular requirements for transformers for construction sites.

Other parts are under consideration.

This is Part 7 GB 19212's. This is part of the GB 19212.1-2008 developed on the basis of this part of the need and

GB 19212.1-2008 and No. 1 in conjunction with amendments.

This part is the GB 19212.1-2008 corresponding chapter, article supplement and modified so GB of content 19212.1-2008

Conversion-oriented part of the contents. The newly added section for GB 19212.1-2008 content numbered starting from 101.

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

19212.7-2006 "Safety - Part 7 of power transformers, power supply units and similar products of this section instead of GB . General Purpose Security

Particular requirements for full isolation transformer ", compared with GB 19212.7-2006, the main technical changes are as follows.

a) the standard name to "supply voltage of 1100V and below transformers, safe reactors, power supply units and similar products

Part 7. safety isolating transformers and safety isolating transformers built power supply unit Particular requirements and tests ";

b) Chapter 1 increase in the content of the relevant safety isolating transformers built power-related;

c) The standard supply voltage up to 1100V;

d) modify the contents of 19.1, complementing the output circuit of claim;

e) an increase of R changes to Appendix.

This section uses the translation method identical with IEC 61558-2-6:2009 "supply voltage

is 1100V and below transformers, reactors,

Safe power supply units and similar products - Part 2-6. safety isolating transformers and safety isolating transformer built a special power supply unit

Requirements and testing "(in English).

For ease of use, this part of the IEC 61558-2-6.2009 also made the following editorial changes.

a) "this International Standard" by "this section";

b) Remove IEC 61558-2-6.2009 Foreword.

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.

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

This part of the National Small power transformers, reactors, power supply units and similar products Standardization Technical Committee (SAC/TC418)

Centralized.

This section is drafted. Shenyang Transformer Research Institute, China Electronics Standardization Institute, National Radio and Television Product Quality Supervision and Inspection

Test center (Beijing Terrett Detection Technology Services Co., Ltd.), the Ministry of Industry Institute of Electronics fifth quality inspection center, Shanghai quality supervision

Governor Electronics Technology Research Institute testing, inspection and quality household appliances.

1 Scope

GB 19212.1-2008 this chapter is replaced by the following.

GB 19212 of the provisions of this part of the general-purpose power supply device for safety isolating transformers and general purpose built safety isolating transformer

Safety requirements. Transformers incorporating electronic circuits are also included in this section.

Note 1: Includes electrical, temperature and mechanical safety aspects.

Unless otherwise specified, the following "transformer" includes general purpose electrical safety isolating transformer and built for safety isolating transformers for general purposes

Source device.

Note 2: (linear) power supply unit, this part applies. Switching power supply unit, IEC 61558-2-16 and applicable in this section.

This section applies to Stationary or mobile, single-phase or multi-phase, air-cooled (self-cooled or air-cooled), with independent and supporting the use of dry-type transformer Device. Windings may be encapsulated or non-encapsulated type.

Rated supply voltage not exceeding AC 1100V, rated frequency and internal operating frequency not exceeding 500Hz.

Rated output not exceeding.

--- Single-phase transformers, 10kVA;

--- Multiphase transformers, 16kVA.

If the purchaser and the manufacturer otherwise agree, this section also applies to the transformer rated output is not limited.

Note 3: This does not cover intended for distribution network transformer.

Load output voltage or the rated output voltage does not exceed 50V AC or ripple-free DC 120V.

This section does not apply to scheduled to be connected with the input and output terminals of the transformer and its external circuit components.

This section applies to the requirements of insulation between circuits in the installation procedures or equipment specifications for double or reinforced insulation transformer.

Note 4: Note the following.

--- Transformer predetermined use on a vehicle, ship or aircraft, may require some additional requirements (according to other applicable standards, national regulations, etc.);

--- Avoid the housing and the housing components such as protective measures by the outside influence of mold, insects, termites, solar radiation, and icing should also be considered;

--- Transformer transport, storage and different working conditions should also be considered;

--- Intended to be used for special circumstances, such as for the tropical environment transformers can be attached in line with national standards and other applicable rules of order

Canadian requirements.

Note 5: With the future development of transformer technology, may need to increase the upper limit frequency, but before then, you can use this section as a guide.