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**NATIONAL STANDARD OF THE  
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**GB/T 25446-2010**

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**Specification and technical requirements for oil-immersed  
amorphous alloy core distribution transformers**

油浸式非晶合金铁心配电变压器技术参数和要求

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### Foreword

Appendix A of this standard is a normative appendix. The standard proposed by China Electrical Equipment Industrial Association. This standard by the National Standardization Technical Committee transformers (SAC/TC44) centralized. This standard was drafted. Shenyang Transformer Research Institute, Shanghai Zhixin Electric Co., Ltd., Guangzhou Panyu Pearl Electric Co., Ltd. The company, State Grid Electric Power Research Institute, Guangdong Julong Electric Power Equipment Co., Ltd. Wujiang City Transformer Co., Ltd., Guangdong Power Grid Corporation Research Institute, China Electric Equipment Group Co., Ltd., and three transformers Technology Co., Ltd., Jiangsu Pa Weier Electric Co., Ltd., Shandong Luneng Taishan Power Equipment Co., Ltd., Tianwei Huarui Electric Co. transformers, high-tech Co., Ltd. Ningbo Aux. The main drafters of this standard. Guo Yan, Sun Jun, Ling Jian, Xiang Yang, Caiding Guo, Chao Fu, the Origins of Chan Lincan Hua, Xu Linfeng, Xuzai Hong, Lin Lei Day, Fuchang Xiang, Zhou Guangyu, Sun Xinzhong, Wang law. Oil-immersed amorphous alloy core distribution transformers Technical parameters and requirements

### 1 Scope

GB/T 25446-2010 is the Chinese national standard on specification and technical requirements for oil-immersed amorphous alloy core distribution transformers, in the field of electrical engineering. 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 10 November 2010 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 May 2011. Classification: ICS 29.180, CCS K41. 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 terms and definitions oil-immersed amorphous alloy core

distribution transformers, product model, performance parameters, technical requirements, test Project, logo, lifting, packaging, transportation and storage. This standard applies to.

--- Voltage rating of 6kV, 10kV grade, rated frequency 50Hz, rated capacity of 5kVA ~ 160kVA single-phase oil-immersed Non-excitation regulator amorphous alloy core distribution transformers (hereinafter referred to as "single-phase transformer");

--- Voltage rating of 6kV, 10kV, 20kV class, rated frequency 50Hz, rated capacity of 30kVA ~ 2500kVA Three Phase oil-immersed non-excited Surge amorphous alloy core distribution transformers (hereinafter referred to as "three-phase transformer");

--- Voltage rating of 35kV, rated frequency 50Hz, rated capacity of 50kVA ~ 2500kVA three-phase oil-free Excitation regulator amorphous alloy core distribution transformers (hereinafter referred to as "three-phase transformer").

Note 1. The rated capacity of the other products may refer to this standard.

Note 2. Since Chapter 6, the term "transformer" refer to the three-phase transformer.

## 2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB 1094.1 Power transformers - Part 1. General ( GB 1094.1-1996, eqv IEC 60076-1.1993)

GB 1094.2 Power transformers - Part 2. Temperature Rise ( GB 1094.2-1996, eqv IEC 60076-2.1993)

GB 1094.3 Power transformers Part 3. Insulation levels, dielectric tests and external insulation air gap ( GB 1094.3-2003, eqv IEC 60076-3.2000)

GB 1094.5 Power transformers Part 5. Ability to withstand short circuit ( GB 1094.5-2008, IEC 60076-5.2006, MOD)

GB/T 1094.7 Power transformers - Part 7. oil-immersed power transformer loading guidelines ( GB/T 1094.7-2008, IEC 60076-7.2005, MOD)

GB/T 1094.10 Power transformers - Part 10. Determination of sound levels ( GB/T 1094.10-2003, IEC 60076-10.2001, MOD)

GB/T 2900.15-1997 Electrotechnical terminology transformers, transformers, voltage regulator and reactor (neq IEC 60050-421.1990; IEC 60050-321. 1986)

JB/T 3837 Transformer Model methodology

### 3 Terms and Definitions

GB 1094.1 and GB/T 2900.15 established in the following terms and definitions apply to this standard.

3.1 Amorphous alloy amorphous alloy Iron, silicon, boron, carbon, cobalt and other elements as raw materials, with a special process to make rapid cooling of atoms inside the alloy exhibits disordered arrangement.