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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 25967-2010

Test methods for thermal performance of domestic solar-plus-supplementary water heating systems

带辅助能源的家用太阳能热水系统热性能试验方法

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Table of Contents

Foreword

This standard is based on the actual situation of China's solar water heating system product development to prepare the standards with reference to the European standards EN12976-1.2006 "system of solar thermal systems and components manufacturing plants - Part 1. general requirements" and EN12976-2. 2006 ". Test methods - Part 2 of solar thermal systems and system components factory-made use of." Appendix A of this standard is a normative appendix. This standard by the National Standardization Technical Committee of solar energy (SAC/TC402) and focal points. This standard was drafted. National Solar Water Heater Quality Supervision and Inspection Center (Beijing), China National Institute of Standardization, Himin Solar collector Group Co., Ltd. Shandong Lok Sang solar energy, Beijing North Purcell Solar Engineering Co., Ltd., Jiangsu Huayang Solar has Ltd., Jiangsu Sunshine Solar Industry Co., Ltd., Hefei Rongshida Solar Technology Co., Ltd., Shandong power Norit New Energy Co. Division, Beijing Tsinghua Solar Energy Development Co., Ltd., Beijing Four Seasons song Mu Solar Technology Co., Ltd., Zhejiang Meida Solar Energy Industry have Ltd., Jiangsu Huaiyin brilliant Solar Co., Ltd., Jiangsu per liter Solar Group Co., Ltd., Jiangsu light kitchen and toilet Solar Technology Co., The company, AO Smith (China) Water Heater Co., Ltd., Beijing Science and Technology Development Co., Ltd. Tianyun Sun, Beijing Solar Temple Industrial Co. the company. The main drafters of this standard. He Tao, Jia Tieying, Yu Zhang Xin, Zheng Ruicheng, Liu Haibo, Zou Hongwei, Zhao Shan, Huang Yongwei, Xiao L, Pan Baochun, Ma Guangbo, Dou Jianqing, too Jiao Qing, Zhang Jiangping, Ma Zhigui, WU Dao Yuan, Wangsuo Gang, Ao Kaiping, Room Feng Jie, Ren Jie. Domestic solar water heating system with auxiliary energy Thermal performance test method

1 Scope

GB/T 25967-2010 is the Chinese national standard on test methods for thermal performance of domestic solar-plus-supplementary water heating systems, in the field of energy and heat transfer 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 January 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 May 2011. Classification: ICS 27.160, CCS F12. 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 thermal performance test method of household solar water heating system with auxiliary energy under outdoor conditions. This standard applies to domestic solar water heating system, hot water storage tank with a volume of 0.6m3 less auxiliary energy.

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 3100 International System of Units and Its Application (GB 3100-1993, eqv ISO 1000.1992)

GB/T 12936 solar thermal terms

GB/T 18708-2002 domestic solar water heating system thermal performance test method

GB/T 19141 domestic solar water heating systems

GB/T 19565 pyranometer JJG458 pyranometer ISO 9488.1999 Solar term

3 Terms and Definitions

GB 3100, GB/T 12936, GB/T 19141, GB/T 18708-2002 and ISO 9488.1999 and established the following terms And definitions apply to this standard.

3.1 Domestic solar water heating system with auxiliary energy domesticsolar-plus-supplementarywaterheatingsystem Solar collectors, heat storage tanks, pipelines, energy and auxiliary controllers and other components, also known as secondary energy with domestic solar water heating , A means for heating the hot water storage tank of water for use in residential and small commercial buildings or public buildings.

4 Symbols and units

GB/T 18708-2002 use symbols apply to this standard, symbols and units of this standard is also used in Appendix A.

5 Taxonomy

Domestic solar water heating system with auxiliary energy by seven kinds of features to classify each feature is divided into two or three kinds of patterns. Various features Classification as shown in Table 1.