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JJF

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

JJF 1261.11-2017

Replacing JJF 1261.11-2013

**Rules of Metrology Testing for Energy Efficiency of Domestic
Solar Water Heating Systems
(English Translation)**

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Introduction

In order to regulate the implementation of energy efficiency logo management of domestic solar hot water systems (hereinafter referred to as home solar energy) the energy efficiency measurement and inspection work is based on the JJF 1261.1-2017 Energy Efficiency Measurement and Detection Rules for Energy-using Products.

Requirements, the development of this specification.

This specification replaces JJF 1261.11-2013, compared with JJF 1261.11-2013, except for editorial modifications.

The main changes are as follows.

--- The name of the specification was changed from "Household solar hot water system energy efficiency identification measurement and measurement rules" to "Home use too Yangneng Hot Water System Energy Efficiency Measurement and Detection Rules;

--- "5.1 energy efficiency labeling" to increase "energy efficiency information code" and "energy efficiency 'leader' information", etc.

Claim;

--- The original record format and test report format were revised accordingly (Appendix E, Appendix F).

The previous versions of this specification were issued as follows.

---JJF 1261.11-2013.

Domestic solar hot water system energy efficiency measurement and detection rules

1 Scope

This specification stipulates the energy efficiency measurement of domestic solar hot water systems with a hot storage tank volume of less than 0.6m³.

Requirements, metrology and testing procedures, metrological testing methods, criteria for the assessment of measurement results, and test reports.

This specification applies to energy efficiency measurement of domestic solar hot water systems with a capacity of up to 0.6m³. Supervisor inspection, commission inspection can refer to this specification. Units that produce and sell home solar hot water systems can also refer to this specification is tested.

The tested domestic solar hot water system should be a product that the producers have passed their own inspection or imported by the seller.

Sales of goods.

2 references

This specification refers to the following documents.

JJF 1261.1-2017 Energy Product Energy Efficiency Measurement Inspection Rules GB/T 2829-2002 Periodic Inspection Count Sampling Procedures and Tables (Applicable to Inspection of Process Stability) GB/T 12936 Solar Thermal Terms GB/T 18708 Domestic solar hot water system thermal performance test method GB/T 19141 Domestic Solar Hot Water System Technical Conditions GB 26969-2011 Domestic solar energy hot water system energy efficiency limit and energy efficiency grade GB/T 26970 home split dual loop solar hot water system technical conditions for dated references, only dated editions apply to this specification; for undated references, the latest version (including all amendments) applies to this specification.

3 Terms and units of measure the following terms and units of measurement apply to this specification.

3.1 Unit outline lighting area daily useful heat (q_{17}) daily useful energy per contour aperture Area of domestic solar water heating system when the water temperature in the hot water storage tank is not lower than the specified value under a certain amount of solar radiation, the unit outline lighting area is stored in the hot water tank the daily useful heat of water is measured in units of MJ/m².

3.2 Average Heat Loss Factor (USL)

average heat loss factor of domestic solar water heating system in the absence of solar irradiation, when the temperature difference between the temperature of the water stored in the domestic solar hot water system and the ambient temperature is 1K, the single the average heat loss of a domestic solar hot water system per unit of time, in units of W/(m³·K).

3.3 Domestic solar hot water system energy efficiency coefficient (CTP)

thecoefficientofthermalperformanceof Domestic solar water heating system