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JJG

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

JJG 1085-2013

Replacing JJG 596-1999

**Verification Regulation of Reference Meters for Electrical
Energy
(English Translation)**

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Introduction

The procedures in place JJG 596-1999 "electronic meters" standard meter section.

The procedure for JJG 596-1999 "electronic meters" standard meter section be revised, the main changes as follows.

- Based JJF1002-2010 "national verification procedures to write rules" for the editorial changes;
- Procedure name from "electronic meters" to "standard meter";
- This procedure applies only to electronic verification standard meter;
- Standard-meter basic error of energy measurement verification device according to JJG 597-2005 "AC power Meter testing equipment "revised accordingly.

Standard energy meter testing procedures

1 Scope

The order applies to the rated frequency of 50Hz or 60Hz initial verification of standard electronic energy meter, follow-up inspection and given the use of checks.

2. References

This procedure references the following documents.

JJG 597-2005 AC power meter testing equipment GB/T 17215.701-2011 standard meter for dated references, only the dated edition applies to this procedure; undated reference documents Member, the latest edition (including any amendments) applies to this procedure.

3 Overview

Standard electrical energy meter is a measure of the energy meter. And it is usually designed to work in a controlled laboratory environment to obtain the highest accuracy and stability. Usually by the standard meter voltage input module, current input module, multiplication Module, the digital signal processing unit, an error processing module and a display module.

Standard power meter can be used independently, but also as a master meter standard device verification equipment use.

4 metering performance requirements 4.1 basic error

4.1.1 Basic error expressed as a percentage relative error. Under the conditions specified in 6.2, the basic standard meter Error limit (referred to as the basic error limit) shall not

exceed the specified in Table 1 and Table 2.

4.1.2 in the test cycle, the basic error of the standard meter shall not exceed the values in Table 1 and Table 2. Standard Electric Meter in the absolute value of the basic error of the test cycle change amount shall not exceed the absolute value of the basic error limit.

The basic error of the absolute value of the amount of change in the 4.1.3 standard energy meter 24h shall not exceed the absolute value of the basic error limit $1/5$.

4.1.4 Warm-up time from the end date, the standard meter continuous work 8h, basic error should not exceed the basic error Limit and basic error shall not exceed the amount of change in the absolute value specified in Table 3.