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JJG

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

JJG 569-2014

Replacing JJG 569-1988

**Verification Regulation of Electricity Meters with Maximum
Demand Measurement Functions
(English Translation)**

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Introduction

This procedure based on JJF1002-2010 "national verification procedures write rules" establishment.

This procedure reference GB/T 17215.301-2007 "multifunction energy meter special requirements", GB/T 17215.211-2006 "AC measuring equipment General requirements, tests and test conditions Part 11. Measuring Device", JJF1245.6-2010 "installation of energy type evaluation outlining the special requirements meter functional class" and JJG 780-1992 "Digital AC Power Meter" and other technical specifications, for JJG 569-1988

"maximum demand meter (Meter) Trial test procedures" have been revised. Compared with JJG 569-1988, in addition to editorial changes to the Main Technical changes are as follows.

- Scope changes, for three-phase electronic energy meter maximum demand, the maximum does not apply to electromechanical Demand Meter;
- Basic error, creep, start, constant, AC voltage tests according JJG 596-2012 execution;
- Increased day clock timing error, the clock indication error test project, canceled the demand cycle test project;
- Increased demand indication error requirements.

The previous versions of the release JJG 569 case.

JJG 569-1988 "maximum demand meter (meter) Trial test procedures" Maximum demand meter testing procedures

1 Scope

The order applies to the reference frequency of 50Hz or 60Hz three-phase electronic energy meter maximum demand (referred Demand Table) initial verification and subsequent verification.

For multifunction meter with a measurement of maximum demand function, the same verification procedure of the project implementation.

This procedure does not apply to on-site inspection and the need to scale electromechanical scale required verification.

2. References

This procedure references the following documents.

JJG 596-2012 electronic AC power meter JJG 597-2005 AC power meter testing equipment GB/T 17215.352-2009 AC measuring equipment - Specific requirements - Part 52. Symbols 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

Demand is an average of a predetermined time interval in the power, which is the expression of formula (1).

$T_0 \int$

$p(t) dt$ (1)

Where.

p --- instantaneous power, kW;

T_0 --- billing cycle, min;

Average active power P --- T_0 time, that demand, kW.

Scale required by the energy measurement unit and data processing unit, etc., can simultaneously measure the three-phase active energy and maximum demand the amount. Maximum demand refers to demand the maximum period or the recorded billing period prescribed.

Scale works need to issue at the beginning or end of each billing cycle by the time base circuit set billing cycle A control signal to obtain a set billing cycle current demand, the demand and maximum demand values recorded in the memory phase Compare, if more than the memory of maximum demand, to replace the memory of the original data, complete the maximum demand recorded.

4 metering performance requirements 4.1 basic error Scale should meet the needs JJG 596-2012 4.1 requirements.

4.2 Creeping

Need to comply with the requirements JJG 596-2012 scale of 4.2.