

ICS 17.220.20

CCS N 22



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

GB/T 17215.322-2008

Replacing GB/T 17883-1999

**Electricity metering equipment (a.c.) -- Particular requirements
-- Part 22: Static meters for active energy (classes 0, 2 S and 0, 5
S)**

交流电测量设备 特殊要求 第22部分：静止式有功电能表（0.2S级和0.5S级）

(English Translation)

Issued on: June 30, 2008

Implemented on: January 1, 2009

Issued by: Standardization Administration of China

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Foreword

This section identical with IEC 62053-22:2003 "AC measuring equipment - Specific requirements Part 22. Static meters for active energy (0.2S and 0.5S grade level). " This portion of the GB/T 17215.211-2006 "AC measuring equipment General requirements, tests and test strips Member Part 11. Measuring Device "together constitute a class 0.2S and 0.5S level static active energy meter type test requirements.

This Part replaces GB/T 17883-1999.

This portion of the GB/T 17883-1999 main difference is as follows.

--- Short time current. defined the scope of the test current from 0 to 10% of terms and definitions;

--- Electromagnetic compatibility test. a high-frequency electromagnetic field immunity test frequency range widened to 80MHz ~ 2000MHz, the current line no current situation of strong end to 30V/m; fast transient burst test requirements in line with the rated current of the current situation IEC 62059-21:2002 AC measuring equipment reliability - Part 21. Field data collection instrument reliability.

This part of the standard meter type test. It covers the special requirements of indoor instruments, but does not include specific components (such as. independence Measuring means within the housing and/or display).

This section should be used in conjunction with the GB/T 17215.211. Any requirement in this section relates to Ruoyi included in GB/T 17215.211 in this section take precedence over the requirements of GB/T 17215.211 requirements.

This part distinction.

--- Accuracy class 0.2S and 0.5S index instruments;

--- I class protection instrumentation and II class protection instrumentation;

--- Equipped or not equipped with a ground fault suppression of power line use of the instrument.

This test level is seen as offering the lowest value of all instrument functions under nominal operating conditions. For special applications, it may be necessary His test levels shall be agreed between the user and the manufacturer.

GB/T 17215.322-2008/IEC 62053-22:2003 AC measuring equipment - Specific requirements Part 22. Static meters for active energy (0.2S and 0.5S grade level)

1 Scope

GB/T 17215 in this section applies only to 50Hz or 60Hz AC active energy measuring network, accuracy rating 0.2S and 0.5S of newly manufactured static meters for active energy, and only applicable to their type testing.

This section is intended for indoor use, consisting of a measuring element and one or more counters and packed in the same case the access type transformer the static energy meter. It also applies to one or more work or more indicators and a test output. If you have a meter for Measuring more than one power measuring device (multi-power meter), or other functional units, such as maximum demand indicators, electronic tariff registers, time Between switches, ripple control receivers, data communication interfaces, etc. enclosed in the same case, the functional unit is adapted to these respective standards.

Note: GB/T 1208.1-2006 defines the measuring range $0.01I_n$ to $1.2I_n$, or $0.05I_n$ to $1.5I_n$, or transformers to $2I_n$ and accuracy of 0.05In Class 0.2S and 0.5S measuring range $0.01I_n$ to $1.2I_n$ transformer. Since the measurement range of the instrument transformers must be used in conjunction therewith match Distribution, and only class 0.2S and 0.5S of this standard instrument transformer that has the work required accuracy requirements, and therefore the measurement range of the instrument as $0.01I_n$ to $1.2I_n$.

This section does not apply to.

a) connection jumper terminal voltage exceeds 600V (polyphase meter of line to line voltage) Active Energy Meter;

b) portable instrumentation and outdoor instruments;

c) instrument counters and data interface;

d) standard table.

Note: The reliability required by the IEC 62059 series of documents.

2 Normative references

The following documents contain provisions which, through reference GB/T 17215 in this section constitute provisions of this section. For dated reference documents Member, all subsequent amendments (not including errata content) or revisions do not apply to this section, however, encouraged to reach under this section Parties to research agreement to use the latest versions of these documents. For undated reference documents, the latest versions apply to this section.

GB/T 1208.1-2006 instrument transformers - Part 1. Current transformers (IEC 60044-1:1996, IDT) GB/T 11150-2001 energy meter testing device. Meter test equipment (neq IEC 60736. 1982) GB/T 17215.211-2006 AC measuring equipment General requirements, tests and test conditions Part 11. measuring equipment (IEC 62052-11:2002, IDT) IEC 62053-61:1998 Power consumption and voltage requirements

3 Terms and Definitions

GB/T 17215.211-2006 terms and definitions apply to this section.

4 Standard power value

GB/T 17215.211-2006 specified power value applicable to this section.

GB/T 17215.322-2008/IEC 62053-22:2003