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NATIONAL METROLOGY TECHNICAL SPECIFICATION OF THE

PEOPLE'S REPUBLIC OF CHINA

JJF 1779-2019

Program of Pattern Evaluation of Electricity Meters for Direct Current Energy

电子式直流电能表型式评价大纲

(English Translation)

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Introduction

This outline is based on the national measurement technical specification JJF 1015-2014 "General Specification for Type Evaluation of Measuring Instruments", JJF 1016-2014 "Guidelines for the Compilation of Outlines of Measuring Apparatus Type Evaluation", JJF 1001 "General Terms and Definitions of Measurement" the requirements are compiled.

This outline 7.1.6 "Electrical Clearance and Creepage Distance" adopts IEC 61010-1:2010 "Measurement, Control and Safety requirements for electrical equipment used in laboratories. Part 1: General Requirements electricalequipmentformeasurement,control,andlaboratoryuse-Part 1: General requirements) in Table 3, Table K.4 and 6.7.1.3.

This outline is published for the first time.

Outline of Type Evaluation of Electronic DC Electric Energy Meter

1 Scope

This outline is applicable to the 0.2, 0.5, 1 and 2 electronic models with the classification code of measuring instruments 15262500 (Static) Type evaluation of DC energy meters.

This outline does not apply to the following situations.

---Electronic DC energy meter with reference voltage exceeding 1000V;

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---DC standard electric energy meter;

---Car electronic DC electric energy meter.

2 Reference documents the outline cited the following documents.

JJG842-2017 electronic DC electric energy meter GB/T 2423.1-2008 Environmental testing for electrical and electronic products Part 2: Test methods Test A.

Low temperature

GB/T 2423.2-2008 Environmental testing for electrical and electronic products Part 2: Test methods Test B.

high temperature

GB/T 2423.4-2008 Environmental testing for electrical and electronic products. Part 2: Test method test Db.

Alternating damp heat (12h 12h cycle) GB/T 2423.5-2019 Environmental Test Part 2: Test Method Test Ea and Guide. Impact GB/T 2423.10-2008 Environmental testing for electrical and electronic products. Part 2: Test methods Test Fc.

Vibration (sine)

GB/T 2423.24-2013 Environmental Test Part 2: Test Method Test Sa. Simulate Ground Solar radiation and its test guidelines GB/T 2423.55-2006 Environmental testing for electrical and electronic products. Part 2: Environmental testing Eh.

Hammer test

GB/T 4208-2017 enclosure protection level (IP code) GB/T 5169.11-2017 Fire hazard testing for electrical and electronic products. Part 11: Glow wire/hot wire base Glow wire flammability test method for finished products of this test method (GWEPT) GB/T 16935.1-2008 Insulation coordination of equipment in low-voltage systems Part 1: Principles, requirements and test GB/T 17626.2-2018 Electromagnetic Compatibility Test and Measurement Technology Electrostatic Discharge Immunity Test GB/T 17626.3-2019 electromagnetic compatibility test and measurement technology RF electromagnetic field radiation immunity test GB/T 17626.4-2018 electromagnetic compatibility test and measurement technology electrical fast transient burst immunity test GB/T 17626.5-2019 EMC test and measurement technology surge (shock) immunity test

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