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

GB/T 2820.6-2009

Replacing GB/T 2820.6-1997

**Reciprocating internal combustion engine driven alternating
current generating sets -- Part 6: Test methods**

往复式内燃机驱动的交流发电机组 第6部分：试验方法

(English Translation)

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Foreword

GB/T 2820 in "reciprocating internal combustion engine driven alternator group," the general heading consists of the following components.

--- Part 1. Application, ratings and performance

--- Part 2. Engines

--- Part 3. Generator with alternator

--- Part 4. Control and switchgear

--- Part 5. Generator

--- Part 6. Test methods

- Part 7. technical conditions for the technical description and design
- Part 8. small power generator set requirements and tests
- Part 9. Measurement and evaluation of mechanical vibrations
- Part 10. Measurement of noise (enveloping surface method)
- Part 11. Rotary uninterruptible power supply performance requirements and test methods
- Part 12. Emergency power supply to safety devices this section GB/T 2820 Part 6. This section identical with ISO 8528-6:2005 "Reciprocating internal combustion engine driven alternating Generating sets - Part 6. Test methods. " ". Test methods for reciprocating internal combustion engines drive alternating current generating sets - Part 6" GB/T 2820.6-1997 this section instead.

This section compared with the GB/T 2820.6-1997, reference standards and test load duration and other technical requirements have a greater change.

This part is proposed by the China Electrical Equipment Industrial Association.

This part of the mobile station by the National Standardization Technical Committee (SAC/TC329) centralized.

This part mainly drafted by. Lanzhou Institute of power vehicles, Shanghai Ketai Power Co., Weir letter (Shantou Bonded Zone) move Power Equipment Co., Ltd., Shenzhen City Waldock BOND New Energy Co., Imtech, Zhengzhou Jinyang Electric Co., Ltd., Fuzhou Hair Electric Equipment Co., Ltd.

1 Scope

This section GB/T 2820 specifies the test methods for the entire turbine characteristics.

This section applies to the reciprocating internal combustion (RIC) engine driven land and marine AC (a.c.) generator sets, does not apply to aviation or flooding Moving land vehicles and locomotives generators.

For some special purposes (such as hospitals, high-rise buildings essential power supply), additional requirements may be necessary. The provisions of this section it can be used as the basis to determine any additional requirements.

For other types of reciprocating by a prime mover (such as a steam engine) driven alternating current (a.c.) generator sets, the provisions of this section may as a basis.

NOTE: The existing test methods for engine (GB/T 6072.1-2008 and GB/T 6072.3-2008) and generator (GB/T 755.2-2003) applicable to these components. Turbine manufacturer is responsible for the provisions of these characteristics and experimental verification.

2 Normative references

The following documents contain provisions which, through reference to GB/T 2820 to the present, 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 755.2-2003 rotary motor (excluding traction motors) Test Method for losses and efficiency (IEC 60034-2 determined. 1972, IDT) GB/T 2820.1-2009 Reciprocating internal combustion engine driven alternating current generating sets - Part 1. Application, ratings and performance (ISO 8528-1:2005, IDT) GB/T 2820.5-2009 Reciprocating internal combustion engine driven alternating current generating sets - Part 5. Generator (ISO 8528-5.

2005, IDT)

GB/T 4942.1-2006 overall structure of the rotary motor protection (IP code) Classification (IEC 60034-5:2000, IDT) GB/T 6072.1-2008 Reciprocating internal combustion engines - Part 1. Power, calibration and testing of fuel and lubricating oil consumptions Additional requirements for engines for general method (ISO 3046-1:2002, IDT) GB/T 6072.3-2008 Reciprocating internal combustion engines - Part 3. Test measurements (ISO 3046-3:2006, IDT) IEC 60947-1:2001 Low-voltage switchgear and control equipment - Part 1. General

3 Other provisions and additional requirements

Of the classification rules must be observed for the ship's deck and offshore installation of AC (a.c.) generator sets, should be attached to meet the classification societies Canadian requirements. The name of the Society shall be user before issuing the order described.

AC (a.c.) generator set without level device for operation, subject to any additional requirements for manufacturers and users agreed.

To satisfy any other regulatory bodies (such as checking and/or legislative bodies) specific requirements set out in regulations, the governing body should be the name Users declaration before issuing the order.

Any other additional requirements by the manufacturer and user agreement.

4 General test requirements

ISO standards should function tests (see Part 5 of this chapter) or ISO standard acceptance test (see Section 6 of this chapter) for Generator Units GB/T 2820.6-2009/ISO 8528-6:2005