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

GB/T 10760.2-2017

Replacing GB/T 10760.2-2003

Generator of small wind turbines - Part 2: Testing methods

小型风力发电机组用发电机 第2部分：试验方法

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Foreword

GB/T 10760 "small wind turbine generator" is divided into the following two parts.

- Part 1. Technical conditions;
- Part 2. Test methods. This section GB/T 10760 Part 2. This section drafted in accordance with GB/T 1.1-2009 given rules. This Part replaces GB/T 10760.2-2003 "Off-grid wind turbine generator Part 2. Test Method." versus GB/T 10760.2-2003 compared to editorial changes in addition to the main technical changes are as follows:
 - Modify the scope of this section;
 - Standardized reference documents and made a readjustment;
 - Expand the test instrumentation;
 - Modify the overload test method;
 - Modify the bearing temperature measurement methods and content;
 - Fixed the formula for calculating the efficiency of the error correction and increase non-copper material parameters change;
 - Expanded the load curve of the measurement content;
 - Expanded start resistance torque measurement method;
 - Remove the low-temperature test and electromagnetic interference measurement content;
 - Increased vibration test method;
 - Increased noise test method;

1 Scope

GB/T 10760.2-2017 is the Chinese national standard on generator of small wind turbines -

part 2: testing methods, in the field of energy and heat transfer engineering. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 14 October 2017 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 May 2018. Classification: ICS 27.180, CCS F11. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

GB/T 10760 provisions of this part of a small wind turbine generator (hereinafter referred to as "generator") test method. This section applies to 0.1kW ~ 100kW small wind turbine generator.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version applies to this article Pieces. For undated references, the latest edition (including all revisions) applies to this document.

GB/T 755 Rotating motor quotas and performance

GB/T 1029 three-phase synchronous motor test method

GB/T 4942.1 rotary motor overall structure of the protection level (IP code) classification

GB/T 10068 Shaft center height of 56mm and above the motor vibration and vibration measurement, assessment and limits

GB/T 10069.1 rotary motor noise measurement methods and limits - Part 1. Rotor electrical noise measurement method

GB/T 12665 motor under normal conditions of use damp heat test requirements

GB/T 17646 small wind turbine

GB/T 22719.1 alternating current low-voltage motors interspersed winding inter-turn insulation Part 1. Test methods Test methods and limits for turn - to - turn insulation of molded low - voltage windings of JB/T 5811

3 Terms and definitions

GB/T 755, GB/T 17646 defined terms and definitions apply to this document.

4.1 Test prototype

4.1.1 The test prototype shall be accompanied by relevant technical data, drawings and installation instructions.

4.1.2 Test prototype should be accompanied by product certification.

4.2 measuring instruments Instruments used in measurement should meet the following requirements.

a) The measuring instruments, meters and sensors used in the test shall be qualified by the metrological department and shall be valid within the validity period;

b) the accuracy of the electrical measuring instruments used in the test should not be less than 0.5 (except megohmmeter), the accuracy of the power sensor should Not less than 0.2, the accuracy of the power transmitter should not be less than 0.5, tachometer accuracy should not be less than 1.0, dynamometer Accuracy should not be less than 1.0 (except hanging spring scale), thermometer error should be ± 1 °C.

c) When the inverter is used as the test power supply, the input and output terminals of the converter should adopt the wide-band digital measuring instrument, and in the measured frequency range