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

GB/T 19069-2017

Replacing GB/T 19069-2003

**Stall regulation wind turbines - Control system - Technical
condition**

失速型风力发电机组 控制系统 技术条件

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Quarantine of the People's Republic of China;
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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009. This standard replaces GB/T 19069-2003 "wind turbine controller technical conditions." This standard compared with GB/T 19069-2003, in addition to editorial changes outside the main technical changes are as follows:

- Added "controller" terms and definitions (see 3.18);
- Modify the "environmental conditions" (see 4.2,.2003 version 4.2);
- Modify the "grid conditions" (see 4.3,.2003 version 4.2);
- Modify the "monitoring function" (see 5.2,.2003 version 5.2.2);
- Modify the "control function" (see 5.3,.2003 version 5.2.1);
- Removed "large and small generator switch control" (see.2003 version 5.5);
- Added "communication requirements" (see 5.5);
- Added "electromagnetic compatibility requirements" (see 5.6);
- Added "low temperature performance requirements" (see 5.7);
- Added "high temperature performance requirements" (see 5.8);
- Added "hot and humid performance requirements" (see 5.9);
- Added "mechanical performance requirements" (see 5.10);
- Added "test method" (see Chapter 6);

1 Scope

GB/T 19069-2017 is the Chinese national standard on stall regulation wind turbines - control system - technical condition, 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.

This standard specifies the pitch-stall-based grid-connected wind turbine control system related terms and definitions, general requirements, technical requirements, Test methods, inspection rules, product information, packaging, shipping and storage. This standard applies to parallel operation with the grid, the use of asynchronous generator stalling pitch wind turbine control system.

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 amendments) applies to this document.

GB/T 191 Packaging - Pictorial signs

GB/T 2900.53 Electrotechnical terminology wind turbine

GB/T 4588.1 metal-free single-sided PCB printed circuit board sub-standard

GB/T 4588.2 metal double-sided printed circuit board with a sub-standard

GB/T 11287-2000 Electrical relays - Part 21. Vibration, shock, bump and earthquakes of measuring relays and protection devices Test Part 1. Vibration test (sine)

GB/T 13384 mechanical and electrical product packaging General technical conditions Shock and collision tests for measuring relays and protection equipment

GB/T 15969.1 programmable logic controller Part 1. General Information

GB/T 15969.2 programmable logic controller Part 2. Equipment requirements and testing

GB/T 16895.21 low voltage electrical installations - Part 4-41. Safety protection Shock protection Electromagnetic compatibility (EMC) test and measurement techniques Electrostatic discharge (ESD) immunity test

GB/T 17626.3-2016 Electromagnetic compatibility testing and measurement techniques RF electromagnetic field radiation immunity test

GB/T 17626.4-2008 Electromagnetic compatibility test and measurement technology Electrical fast transient burst immunity test

GB/T 17626.5-2008 Electromagnetic compatibility test and measurement techniques surge

(impact) immunity test

GB/T 17626.6-2008 Electromagnetic compatibility test and measurement techniques RF field induced conduction disturbances immunity Electromagnetic compatibility (EMC) - Tests and measurement techniques - Ringing wave immunity test

3 Terms and definitions

GB/T 2900.53 defined and the following terms and definitions apply to this document.