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

GB/T 33627-2025

Replacing GB/T 33627-2017

**General requirement of aero-derivative gas turbine assembly
enclosure**

航空派生型燃气轮机机组箱装体通用技术要求

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

This document replaces GB/T 33627-2017 "General technical requirements for aviation-derived gas turbine unit casings" and GB/T 33627- Compared with 2017, in addition to structural adjustments and editorial changes, the main technical changes are as follows.

- a) Added terms and definitions (see Chapter 3);
- b) The unit case structure design content has been modified (see Chapter 6, Chapter 5 of the 2017 edition);
- c) Added the application requirements for marine environment unit enclosures (see 6.9 and 6.11);
- d) The structures of the ventilation system, air conditioning system, and heating system have been changed (see Chapter 9, Chapters 8 and 9 of the 2017 edition);

e) The content of heating system has been changed (see 9.4, Chapter 9 of the 2017 edition).

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

This document was proposed by the China Machinery Industry Federation.

This document is under the jurisdiction of the National Technical Committee for Standardization of Gas Turbines (SAC/TC259).

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This document was first published in 2017 and this is the first revision.

Aviation-derived gas turbine unit casing General technical requirements

1 Scope

This document specifies the composition, structural design, noise control, and design of the aviation-derived gas turbine box body (hereinafter referred to as the "box body").

General technical requirements for fire control, fire fighting and fire extinguishing, ventilation systems, etc.

This document applies to aircraft-derived gas turbine packaged for power generation. Used for body reference.

2 Normative references

GB 146.1

GB 146.2

GB 2894

GB 3096

GB/T 10491

GB 12348

GB/T 13673

GB/T 15135

GB/T 17888

GB 50009

GB/T 50011

GB/T 50034

GB 50058

GB 50116

GB/T 50193

3 Terms and Definitions

The terms and definitions defined in GB/T 15135 and the following apply to this document.

3.1 Boxed body enclosure

Used to protect personnel and equipment from environmental impact and/or not to affect the environment, including fire protection and noise reduction barrier.

[Source: GB/T 15135-2018, 4.29, with modifications]