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

GB/T 46695-2025

**Power load flexible adjustment and control terminals - General
requirements**

电力负荷柔性调控终端 通用要求

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1 Scope

GB/T 46695-2025 is the Chinese national standard covering the device that lets a grid operator shed or shift a customer's load - the control interface and the response time, the local override the customer keeps, the metering and verification of what was actually delivered, and the security of a remote control channel. First edition, in force from 1 May 2026. Issued on 31 October 2025, it has been in force since 1 May 2026.

This document specifies the standard values, environmental conditions, structural and mechanical performance, electrical performance, and measurability of flexible load control terminals. Technical requirements such as energy efficiency, flexible control, communication and security, data acquisition and management, and electromagnetic compatibility are described, along with test methods. This document applies to the design, manufacture, inspection, installation and commissioning of power load flexible control terminals (hereinafter referred to as "terminals").

2 Normative references

The contents of the following documents, through normative references within the text,

constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 2423.1 Environmental testing - Part

3 Terms and Definitions

The terms and definitions defined in GB/T 17215.211-2021, as well as the following terms and definitions, apply to this document.

8.2 Power Quality Monitoring 9

9.Flexible regulation 10.

11 Measuring apparatus

GB/T 17215.3 (all parts) Particular requirements for electrical measuring equipment (AC)

GB/T 17626.2 Electromagnetic compatibility testing and measurement techniques - Electrostatic discharge immunity test

GB/T 17626.3 Electromagnetic compatibility testing and measurement techniques - Part

12.3 Electrostatic discharge immunity 14

12.4 Radio Frequency Electromagnetic Field (No Current in Current Circuit) Immunity Test 14

12.5 Radio Frequency Electromagnetic Field (Current Circuit with Current) Immunity Test 14

12.7 Surge Test

15 Appendix A (Informative) Typical Application Scenarios of Flexible Power Load Control Terminals

16 Reference 17

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1.Structure and Drafting Rules of Standardization Documents". Drafting. Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents. This document was proposed by the China Machinery Industry Federation. This document is under the jurisdiction of the

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