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

GB/T 46979-2025

**Information technology - General specification for rack-scale
servers**

信息技术 整机柜服务器通用规范

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Foreword

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

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(Zhejiang) Co., Ltd., China Ordnance Changzhi Technology Co., Ltd., Yangtze Memory Technologies Co., Ltd., Zhongke Guowei (Beijing) Holdings Co., Ltd., Inspur Computer Technology Co., Ltd. The company, ZTE Corporation, and Suzhou Yuannao Intelligent Technology Co., Ltd. The main drafters of this document are. Zhang Bin, Liu Guangzhi, Dai Yusheng, Chen Hai, Chen Guofeng, Zhang Guangbin, Fang Fang, Wang Jibin, Sheng Yong, Han Baoyuan, and Zhang Chun. Chen Hai, Yang Jinyu, Wang Xinxin, Yu Huazhen, Liu Xiaohu, Sun Zhen, Li Wei, Ding Junfeng, Fu Xinjie, Liu Bing, Zhou Pingjiao, Li Yan, Cui Chen, Liu Wen, Zhu Jinwei Tang Zhen, Mao Feng, Li Peng, Yang Yougui, Xu Weishu, Cheng Wen, Hu Han, Feng Wenjing, Wang Baowen, Guo Hongyan, Li Youquan, Lu Lu, Shen Hailan, Cheng Mo Li Shengyi, Li Jingying, Liu Yaoyang, Liu Song, Xu Zhaogang, Song Guixiang, and Di Heliang. Information Technology Rack Server General Specification

1 Scope

GB/T 46979-2025 is the Chinese national standard covering the rack as the unit of purchase rather than the server - shared power and cooling for the whole cabinet, the node trays that slide into it, the management of the rack as one machine, and the delivery and installation of something that arrives assembled and weighs a tonne. First edition, 22,500 words. It was issued on 31 December 2025 and has been in force since 1 July 2026, as a first edition. The document is under the responsibility of the Standardization Administration of China. This page is published from the official record of the 2025 edition; the clause text of a standard this recent is not yet in circulation, and the figures, limits and tables it contains are those of the document itself, delivered in full with the English translation.

This document specifies the technical requirements, quality assessment procedures, marking, packaging, transportation, and storage of rack-mount servers, and describes the corresponding tests. method. This document applies to the design, manufacture, inspection and acceptance, and application of rack-mount servers.

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 191 Pictorial Symbols for Packaging and Storage

GB/T 2423.1 Environmental testing of electrical and electronic products - Part

4 Compression and Stacking Tests Using a Compression Testing Machine method

GB/T 4857.5 Drop Test Method for Packaging and Transport Packages

GB/T 4857.6 Packaging and Transport Packages Rolling Test Method

GB/T 4857.11 Packaging - Basic Tests for Transport Packaging - Part

11 Horizontal Impact Test Method

GB/T 4857.20 Packaging and Transport Packages - Impact Test Method

GB/T 4857.23-2021 Packaging - Basic Tests for Transport Packaging - Part

23. Test Method for Vertical Random Vibration

GB 4943.1 Audio-visual, information technology and communication technology equipment
- Part

14 Reliability, Maintainability and Availability

GB/T 5398-2016 Test methods for large transport packages

GB/T 5861-2003 Test Methods for Hydraulic Quick-Connect Couplings

GB/T 9254.1 Electromagnetic compatibility of information technology equipment,
multimedia equipment and receivers - Part