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ICS 35.020
CCS L09

YD

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

YD/T 6588-2025

Requirements and test methods for electrical safety and lightning protection of 10kV AC input uninterruptible power system used in information communication system

信息通信用10kV交流输入不间断电源系统的电气安全及防雷技术要求和试验方法

(English Translation)

Issued on: December 17, 2025 **Implemented on: April 1, 2026**

Issued by: Ministry of Industry and Information Technology

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https://chinastandards.org/standards/yd-t-6588-2025

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1 Foreword

YD/T 6588-2025 was issued by Ministry of Industry and Information Technology on 17 December 2025 and has been in force since 1 April 2026.

The YD/T prefix marks a recommended standard. It is not law in itself: it becomes binding when a contract names it, when a regulation or a mandatory standard refers to it, or when a producer declares conformity with it.

The document runs to 15 pages in English translation.

2 Scope Preview

This standard specifies the electrical safety, lightning protection, and grounding technical requirements and test methods for uninterruptible power supply (UPS) systems with a medium-voltage 10kV AC input and a low-voltage AC or DC output. This standard applies to centralized power supply scenarios in large data centers and communication stations, with a medium-voltage 10kV AC input and a low-voltage (not exceeding 1000V AC or 1500V DC) output UPS systems. This standard does not apply to output-side electrical equipment.

YD/T 6588-2025 falls under ICS 35.020, in the field of information technology.

This catalogue holds 725 other YD/T standards in that field.

In this catalogue, YD/T standards carry edition years from 1982 to 2026.

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3 About this standard

Sector: Telecommunication Industry Standard (Recommended)

Issued by: Ministry of Industry and Information Technology

English translation: about 15 pages (approximate)

4 Related standards

Standards on related subjects:

GB 4943.1-2022 - Audio/video,information and communication technology equipment-Part 1: Safety requirements

GB 4943.21-2019 - Information technology equipment -- Safety -- Part 21: Remote power feeding

GB 4943.23-2012 - Information technology equipment - Safety - Part 23: Large data storage equipment

YD/T 2379.3-2026 - Environmental test requirements and test methods for telecommunications equipment - Part 3: Equipment of stationary use at non-weather-protected locations

YD/T 1542.1-2026 - Requirements and test methods for surge protective devices connected to information and telecommunication systems - Part 1: General principles

YD/T 1429-2024 - Technical requirements and testing methods for lightning protection systems in use in communications bureaus (stations)

5 Classification and status

International classification (ICS): 35.020

Chinese Standard Classification (CCS): L 09

Prefix YD/T: recommended standard.

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