Chinastandards.org

ICS 29.200
CCS M41

YD

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

YD/T 4524.1-2024

5G Power Supply and Environmental Infrastructure - Part 1: General provisions

5G供电与环境的基础设施 第1部分：总则

(English Translation)

Issued on: December 10, 2024 **Implemented on: April 1, 2025**

Issued by: Ministry of Industry and Information Technology

Preview: page 1 of 3 shown, 15 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/yd-t-4524-1-2024

Chinastandards.org

Table of Contents

[Preview only]
1 Scope
2 Normative references
3 Abbreviations
3.1 Terms and definitions
4 General
4.1 Test environment
4.2 UE Information
4.3 Test Implementation
5 Requirements

1 Foreword

YD/T 4524.1-2024 was issued by Ministry of Industry and Information Technology on 10 December 2024 and has been in force since 1 April 2025.

It is one of 5 parts of the YD/T 4524 series.

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.

2 Scope Preview

This standard specifies the general principles of the technical requirements for the infrastructure power supply and environment of 5G base station rooms, access rooms, edge computer rooms, and aggregation rooms, including basic requirements, energy-saving requirements, intelligent management requirements, environmental conditions requirements, and technical requirements for each system. This standard applies to the infrastructure power supply and environment of 5G base stations and rooms.

YD/T 4524.1-2024 falls under ICS 29.200, in the field of electrical engineering.

This catalogue holds 81 other YD/T standards in that field.

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

Preview: page 2 of 3 shown, 15 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/yd-t-4524-1-2024

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

Other parts of this standard:

YD/T 4524.2-2024 - Part 2: Outdoor small integrated power supply system

YD/T 4524.3-2025 - Infrastructure of power supply and environment for 5G - Part 3: Multi-input multi-output integrated energy cabinet

YD/T 4524.4-2023 - 5G power supply and environmental infrastructure - Part 4: Rack temperature control system

YD/T 4524.5-2024 - Part 5: BBU cabinet

Standards on related subjects:

YD/T 1092-2023 - Telecommunication cables - Foamed polyolefin dielectric, corrugated copper-tube outer conductor, 50 Ohm radio-frequency coaxial cable for wireless communications

YD/T 2165-2010 - Technical specification of modular uninterruptible power systems for telecommunications

YD/T 777-2006 - Inversion equipment for telecommunications

5 Classification and status

International classification (ICS): 29.200

Chinese Standard Classification (CCS): M 41

Prefix YD/T: recommended standard.

Preview: page 3 of 3 shown, 15 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/yd-t-4524-1-2024