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ICS 33.050.99
CCS M10

YD

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

YD/T 6494-2025

Method for evaluating power consumption of IoT terminal equipment

物联网通信端侧设备功耗测试方法

(English Translation)

Issued on: July 2, 2025 **Implemented on: November 1, 2025**

Issued by: Ministry of Industry and Information Technology

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1 Foreword

YD/T 6494-2025 was issued by Ministry of Industry and Information Technology on 2 July 2025 and has been in force since 1 November 2025.

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 power consumption testing methods for IoT communication end-side devices, including power consumption testing methods under power-off, standby, long-connection, sleep, and deep sleep states. This document applies to the design and implementation of power consumption testing methods for IoT communication end-side devices.

YD/T 6494-2025 falls under ICS 33.050.99, in the field of telecommunications.

This catalogue holds 3,420 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/T 47325-2026 - Security technical requirements and test methods for over-the-air updates in the internet of vehicles

GB/T 47324-2026 - Cybersecurity protection requirements for internet of vehicles platforms

YD/T 1730-2008 - Implementation Guide for Security Risk Assessment of Telecom Network and Internet

YD/T 6496-2025 - Smart multifunctional pole (tower) - General framework and technical requirements for system communication

YD/T 6489-2025 - Technical requirements for monitoring of water system for smart fire protection

YD/T 6486-2025 - General assessment method of data set quality for artificial intelligence - Overall requirements

5 Classification and status

International classification (ICS): 33.050.99

Chinese Standard Classification (CCS): M 10

Prefix YD/T: recommended standard.

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