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ICS 29.240.01

DL

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

DL/T 2976-2025

Technical specification for flexible low-voltage DC interconnection devices

柔性低压直流互联装置技术规范

(English Translation)

Issued by: National Energy Administration

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1 Foreword

DL/T 2976-2025 was issued by National Energy Administration on 28 September 2025.

The DL/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 document specifies the basic classification, functional requirements, electrical performance, safety performance, electromagnetic compatibility, auxiliary systems, test methods, inspection rules, environmental conditions, appearance and protection degree, marking, packaging, transport and storage requirements for flexible low-voltage DC interconnection devices (hereinafter referred to as "low-voltage interconnection devices"). This document applies to the design, manufacture, testing, inspection and operation of low-voltage interconnection devices with DC terminals for 380 V three-phase grid connection.

DL/T 2976-2025 falls under ICS 29.240.01, in the field of electrical engineering.

This catalogue holds 883 other DL/T standards in that field.

In this catalogue, DL/T standards carry edition years from 1991 to 2026.

3 Normative references

GB/T 191 - Packaging - Pictorial marking for handling of goods

GB/T 4208 - Degrees of protection provided by enclosure (IP code)

GB/T 4798.2 - Classification of environmental conditions - Classification of groups of environmental parameters and their severities - Part 2: Transportation and handling

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GB/T 12325 - Power quality - Deviation of supply voltage

GB/T 12326 - Power quality - Voltage fluctuation and flicker

GB/T 13384 - General specifications for packing of mechanical and electrical product

GB/T 14549 - Quality of electric energy supply - Harmonics in public supply network

GB/T 15543 - Power quality - Three-phase voltage unbalance

GB/T 15945 - Power quality - Frequency deviation for power system

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 3: Radiated, radio-frequency, electromagnetic field immunity test

GB/T 17626.4 - Electromagnetic compatibility - Testing and measurement techniques - Electrical fast transient/burst immunity test

GB/T 17626.5 - Electromagnetic compatibility - Testing and measurement techniques - Surge immunity test

GB/T 17626.6 - Electromagnetic compatibility - Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields

GB/T 17799.2 - Electromagnetic compatibility - Generic standards - Part 2: Immunity standard for industrial environments

GB/T 20626.1 - Specific environmental condition - Electric and electronic products for plateau - Part 1: General technical requirements

GB/T 24337 - Power quality - Interharmonics in public supply network

GB/T 34120 - Technical requirements for power conversion system of electrochemical energy storage system

GB/T 34133 - Testing code for power conversion system of energy storage system

4 About this standard

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English translation: about 15 pages (approximate)

5 Classification and status

International classification (ICS): 29.240.01

Prefix DL/T: recommended standard.

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