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NATIONAL STANDARD OF THE

PEOPLE'S REPUBLIC OF CHINA

GB/T 18216.15-2026

Electrical safety in low voltage distribution systems up to 1000V AC and 1500V DC-Equipment for testing, measuring or monitoring of protective measures-Part 15: Functional safety requirements for insulation monitoring devices in IT systems and equipment for insulation fault location in IT systems

交流1000V和直流1500V及以下低压配电系统电气安全 防护措施的试验、测量或监控设备 第15部分：IT系统中绝缘监测装置和绝缘故障定位设备的功能安全要求

(English Translation)

Issued on: October 30, 2026 **Implemented on: May 1, 2027**

Issued by: State Administration for Market Regulation;
Standardization Administration of China

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1 Foreword

GB/T 18216.15-2026 was issued by State Administration for Market Regulation; Standardization Administration of China on 30 October 2026 and takes effect on 1 May 2027.

It is one of 25 parts of the GB/T 18216 series.

The GB/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

GB/T 18216.15-2026 carries no ICS number and no Chinese Standard Classification code.

This catalogue holds 76,457 other GB/T standards.

Of the 47,415 GB/T standards that do carry an ICS number, 3,437 (7%) fall under ICS 77, in the field of metallurgy.

3 About this standard

Issued by: State Administration for Market Regulation; Standardization Administration of China

4 Related standards

Other parts of this standard:

GB/T 18216.1-2000 - AC 1 000 V DC 1 500 V low voltage power distribution system electrical safety detection test, measurement or monitoring equipment - Part 1: General requirements

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GB/T 18216.1-2012 - Electrical safety in low voltage distribution systems up to 1000 V a.c. and 1500 V d.c. - Equipment for testing, measuring or monitoring of protective measures - Part 1: General requirements

GB/T 18216.1-2021 - Electrical safety in low voltage distribution systems up to 1 000 V a. c. and 1 500 V d. c. - Equipment for testing, measuring or monitoring of protective measures - Part 1: General requirements

GB/T 18216.2-2002 - 1000V AC and 1500V dc low voltage distribution system Electrical Safety Equipment for testing, measuring or monitoring equipment - Part 2: Insulation resistance

GB/T 18216.2-2012 - Electrical safety in low voltage distribution systems up to 1000 V a.c. and 1500 V d.c. - Equipment for testing, measuring or monitoring of protective measures - Part 2: Insulation resistance

GB/T 18216.2-2021 - Electrical safety in low voltage distribution systems up to 1 000 V a. c. and 1 500 V d. c. - Equipment for testing, measuring or monitoring of protective measures - Part 2: Insulation resistance

GB/T 18216.3-2007 - 1000V AC and 1500V dc low voltage distribution system electrical safety measures for testing, measuring or monitoring equipment - Part 3: Loop impedance

GB/T 18216.3-2012 - Electrical safety in low voltage distribution systems up to 1 000 V a.c. and 1 500 V d.c. - Equipment for testing, measuring or monitoring of protective measures - Part 3: Loop impedance

GB/T 18216.3-2021 - Electrical safety in low voltage distribution systems up to 1 000 V a. c. and 1 500 V d. c. - Equipment for testing, measuring or monitoring of protective measures - Part 3: Loop impedance

GB/T 18216.4-2007 - 1000V AC and 1500V dc low voltage distribution system electrical safety measures testing, measuring or monitoring equipment - Part 4: grounding resistance and equipotential grounding resistance

GB/T 18216.4-2012 - Electrical safety in low voltage distribution systems up to 1000 V a.c. and 1500 V d.c. - Equipment for testing, measuring or monitoring of protective measures - Part 4: Resistance of earth connection and equipotential bonding

GB/T 18216.4-2021 - Electrical safety in low voltage distribution systems up to 1 000 V a. c and 1 500 V d. c - Equipment for testing, measuring or monitoring of protective measures - Part 4: Resistance of earth connection and equipotential bonding

GB/T 18216.5-2007 - 1000V AC and DC 1500V following low voltage distribution system electrical safety protection measures for testing, measuring or monitoring equipment - Part 5: Resistance to earth

GB/T 18216.5-2012 - Electrical safety in low voltage distribution systems up to 1000 V a.c.

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and 1500 V d.c. - Equipment for testing, measuring or monitoring of protective measures - Part 5: Resistance to earth

GB/T 18216.5-2021 - Electrical safety in low voltage distribution systems up to 1 000 V a. c. and 1 500 V d. c. - Equipment for testing, measuring or monitoring of protective measures - Part 5: Resistance to earth

GB/T 18216.6-2022 - Electrical safety in low voltage distribution systems up to 1000V a. c. and 1500V d. c. - Equipment for testing, measuring or monitoring of protective measures - Part 6: Effectiveness of residual current devices(RCD) in TT, TN and IT systems

GB/T 18216.7-2024 - Electrical safety in low voltage distribution systems up to 1000V a. c. and 1500V d. c. - Equipment for testing, measuring or monitoring of protective measures - Part 7: Phase sequence

GB/T 18216.8-2015 - Electrical safety in low voltage distribution systems up to 1 000 V a.c. and 1 500 V d.c. -- Equipment for testing, measuring or monitoring of protective measures -- Part 8: Insulation monitoring devices for IT systems

GB/T 18216.9-2015 - Electrical safety in low voltage distribution systems up to 1 000 V a.c. and 1 500 V d.c. --Equipment for testing, measuring or monitoring of protective measures -- Part 9: Equipment for insulation fault location in IT systems

GB/T 18216.10-2022 - Electrical safety in low voltage distribution systems up to 1000V a.c. and 1500V d.c. - Equipment for testing, measuring or monitoring of protective measures - Part 10: Combined measuring equipment for testing, measuring or monitoring of protective measur

GB/T 18216.11-2024 - Electrical safety in low voltage distribution systems up to 1 000 V AC and 1 500 V DC - Equipment for testing, measuring or monitoring of protective measures - Part 11: Effectiveness of residual current monitors(RCM)in TT, TN and IT systems

GB/T 18216.12-2010 - Electrical safety in low voltage distribution systems up to 1000 V a.c. and 1500 V d.c. - Equipment for testing, measuring or monitoring of protective measures - Part 12: Performances measuring and monitoring devices (PMD)

GB/T 18216.12-2025 - Electrical safety in low voltage distribution systems up to 1 000 V AC and 1 500 V DC - Equipment for testing, measuring or monitoring of protective measures - Part 12: Power metering and monitoring devices(PMD)

GB/T 18216.17-2026 - Electrical safety in low voltage distribution systems up to 1000V AC and 1500V DC-Equipment for testing, measuring or monitoring of protective measures-Part 17: Non-contact AC voltage indicators

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5 Classification and status

Prefix GB/T: recommended standard.

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