



**NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC
OF CHINA**

中华人民共和国国家标准

GB/T 15139-1994

**General technical standard for electrical
equipment structure**

电工设备结构总技术条件

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General technical standard for electrical equipment structure

1 Subject contents and scope of application

This standard specifies the basic technical requirements that various types of electrical equipment structured products should be generally followed;

This standard applies to the design, manufacturing and acceptance of electrical equipment structured (hereinafter refers to as structure) products.

2 References

GB 1182 to 1184 Geometrical tolerancing

GB 1800 to 1804 Tolerance and fits

GB 1958 Rules for inspection of form and position tolerances

GB 2424.6 Environmental testing for electric and electronic products - Confirmation of the performance of temperature/humidity chambers

GB 2424.7 Environmental testing for electric and electronic products—Part 2: Test methods Test Fc and guidance: Vibration (Sinusoidal)

GB 2424.8 Environmental testing for electric and electronic products Part 2: Test methods Test Ga and guidance: Acceleration, steady state

GB 2424.10 Basic environmental testing procedures for electric and electronic products
General guidance of accelerated testing for atmospheric corrosion

GB 2828 Sampling procedures and tables for lot-by-lot inspection by attributes (Apply to inspection of successive lots or batches)

GB 2829 Sampling procedures and tables for periodic inspection by attributes (Apply to inspection of stability for productive process)

GB 3047.1 Series of basic dimensions of panels, rack and cabinets for vertical

increment of 20mm

GB 3047.2 Series of basic dimensions of panels, racks and enclosure for vertical increment of 44.45mm

GB 3047.3 Series of basic dimensions of subracks and plug-in units for vertical increment of 20 mm

GB 3047.4 Series of basic dimensions of subracks and plug-in units for vertical increment of 44.45mm

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

GB 8582 Terminology for mechanical structures of electrotechnical and electronic equipment

GB 10217 The design guide of the outline and structure for the electric control equipment

GB/T 13384 General specification for packagings of mechanical and electrical products

3 Terms

For the purpose of this Standard, following terms defined in GB 8582 apply.

4 Model naming

Except that type code shall be used Latin alphabet, the code of design category, varieties and specifications, and the naming of the composition of the model shall be stipulated in various structure product standards.

5 Outer shell protection grade

The outer protection grade of the structured product shall meet the provisions of GB 4208.

The general selection in the supporting design is IP2X. It can choose IP40 or IP54 after installing the sealing gasket.

6 Technical requirements

6.1 The environmental conditions of normal use

Upper temperature limit: +55, +60, +70℃;

Lower temperature limit: -40℃;

Relative humidity: 10%-95%.

6.2 Size

The appearance of the structure and the interchangeability size shall meet the provisions of GB 3047.1-3047.4.

6.2.1 The dimensions of the cabinet

Height of appearance: 1600, 1800, 2000, 2200, 2400mm;

Width of appearance: 600, 800, 1000, 1200mm;

Depth of appearance: 600, 800, 1000, 1200mm.

6.2.2 The size of the shelf

Height of appearance: 1600, 1800, 2000, 2200, 2400mm;

Width of appearance: 600, 800, 1000, 1200mm.

6.2.3 The size of the panel

a. Height system of 20mm panel size

Height of appearance: 99, 179, 219, 359, 439mm;

Width of appearance: 480, 600mm.

b. Height system of 44.45mm panel size

Height of appearance: 88.1, 177, 221.5, 354.8, 443.7mm;

Width of appearance: 482.6, 609.6mm.

6.2.4 The size of the plug-in

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