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

**GB/T 19290.6-2018**

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**Modular order for the development of mechanical structures for electronic equipment practices -- Part 2-4: Sectional specification -- Interface coordination dimensions for the 25 mm equipment practice -- Adaptation dimensions for sub-racks or chassis appl**

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### Foreword

GB/T 19290 "Development of electronic device structure mechanical modulus module sequence" is divided into the following parts.

--- Part 1. General specification (GB/T 19290.1-2003);

--- Part 2. Interface coordination dimensions of 25mm equipment structures (GB/T 19290.2-2003);

--- Part 2-1. Sub-specification 25mm Interface coordination of equipment structures  
Dimensions specification Cabinet and rack dimensions  
(GB/T 19290.3-2008);

--- Part 2-2. Interface specification for 25mm device structures. Dimensions of detail  
specification for subracks, enclosures, backplanes, panels and  
Plug-in size (GB/T 19290.4-2009);

--- Part 2-3. Sub-standard 25mm device structure interface coordination size expansion  
detailed specification of the box, chassis, backplane,  
Panel and plug-in dimensions (GB/T 19290.5-2009);

--- Part 2-4. Sectional specification 25mm device structure interface coordination  
dimensions for IEC 60297-3-100 (19in)

This part is part 2-4 of GB/T 19290.

This part is drafted in accordance with the rules given in GB/T 1.1-2009.

This part uses the translation method equivalent to IEC 60917-2-4.2010 "Developing  
electronic equipment structure mechanical structure modulus sequence

Section 2-4. Interface specification for 25mm device frame size for IEC 60297-3-100 (19in)  
cabinets or racks

Fit size of the subrack or chassis.

The documents of our country that have a consistent correspondence with the international documents referenced in this part are as follows.

---GB/T 19290 (all parts) Developing electronic device structure mechanical structure modulus sequence [IEC 60917 (all departments)

Minute)];

--- GB/T 19290.4-2009 Development of electronic equipment structure mechanical structure module sequence - Part 2-2.

Interface coordination dimensions for 25mm equipment structures detailing dimensions of subracks, enclosures, backplanes, panels and inserts (IEC 60917-

2-2..1994, IDT);

---GB/T 19520 (all parts) electronic equipment structure 482.6mm (19in) series mechanical structure size [IEC 60297

(all parts)];

---GB/T 19520.16-2015 Electronic equipment structure 482.6mm (19in) series mechanical structure size section 3-100

Points. basic dimensions of panels, subracks, enclosures, racks and cabinets (IEC 60297-3-100.2008, IDT);

---GB/T 19520.18-2018 Electronic equipment mechanical structure 482.6mm (19in) series mechanical structure size section 3-106

Points. Suitable for adapters and enclosures in accordance with IEC 60917-2-1 metric cabinets or racks (IEC 60297-3-106.

2010, IDT).

This part is proposed and managed by the National Electrical and Electronic Equipment Structure Standardization Technical Committee (SAC/TC34).

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## Introduction

IEC 60917 (all parts) specifies mechanical knots for metric cabinets, racks, subracks, enclosures and inserts based on metric modular sequence sizes

Structure and size. Subsequent development of IEC 60917 (all parts) compared to IEC 60297 provides a more harmonized size

Rational design practice.

IEC 60297 (all parts) also specifies the structure and interface dimensions for 19in racks, racks and compatible bays and enclosures. by

A long history of IEC 60297 (all parts) and its applications, combined with 19in-based cabinets, racks, bays and chassis

It will be widely used in all industrial electronics fields in the world.

In order to meet the requirements of the IEC 60917 series (metric standards) combined with the IEC 60297 series (19in standard), resulting in 19in

Installing a metric box or chassis in a standard cabinet or rack, and vice versa, installing a 19-inch box or gantry in a metric cabinet or rack

Chassis.

To address this requirement and need, install a metric or 19in box or chassis to a cabinet or machine that meets 19in or metric standards.

Frame to determine the appropriate flange fit size. These sizing sizes specify that the electronic equipment is installed in an existing cabinet or rack.

Ji's solution. In addition, it provides flexibility for electromechanical designers to develop a structural system suitable for installation in these two IEC standard series.

guide.

In order to meet this market need, this section specifies the fit size of the metric box or chassis for 19in cabinets or racks.

Dimensions, while the 19in case or chassis is mounted in a metric cabinet or rack size, as specified in the additional standard IEC 60297-3-106

set).

Developing electronic device structure mechanical structure modulus sequence

Part 2-4. Sub-standard 25mm equipment

Interface coordination dimensions for IEC 60297-3-100

(19in) cabinet or rack enclosure or chassis

Fit size

## 1 Scope

This section of GB/T 19290 specifies the mounting flange dimensions for metric bays or enclosures that can be mounted in a 19-in cabinet or rack.

Additional dimensions for the subrack or enclosure comply with IEC 60917 (all parts), additional dimensions for 19 in cabinets or racks in accordance with IEC 60297

(all parts).

EMC, seismic, climatic, and environmental requirements and tests are specified in IEC 61587 (all parts).

The diagrams used in this section are not intended to guide product design, only the dimensions specified in those standards should be used.

The terminology used is in accordance with IEC 60917-1.

## 2 Normative references

The following documents are indispensable for the application of this document. For dated references, only the dated version applies to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

IEC 60297 (all parts) Electronic equipment structure 482.6mm (19in) series mechanical structure size [Mechanical

Structureforelectronicequipment-Dimensionsofmechanicalstructuresofthe482.6mm(19in)series-  
Ries)]

IEC 60297-3-100 electronic equipment structure 482.6mm (19in) series mechanical structure dimensions part 3-100.

Basic dimensions of boards, subracks, cabinets, racks and cabinets

[Mechanicalstructuresforelectronicequipment-Dimensions

Ofmechanicalstructuresofthe482.6mm (19in)series-Part 3-100.Basicdimensionsoffront

Panels,subracks,chassis,racksandcabinets]

IEC 60297-3-106 Mechanical structures for electronic equipment, 482.6 mm (19 in) series, mechanical structure dimensions - Part 3-106

Adaptable dimensions of available subracks or enclosures for metric cabinets or racks in IEC 60917-2-1 [Mechanicalstructuresforelectronic

equipment-Dimensionsofmechanicalstructuresofthe482.6mm(19in)series-Part 3-106.Adap-