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

GB/T 19520.18-2018

Mechanical structures for electronic equipment -- Dimensions of mechanical structures of the 482.6 mm (19 in) series -- Part 3-106: Adaptation dimensions for sub-racks and chassis applicable with metric cabinets or racks in accordance with IEC 60917-2-1

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Foreword

GB/T 19520 "Electrical equipment mechanical structure 482.6mm (19in) series mechanical structure size" is divided into the following parts.

---Part 3-100. Basic dimensions of panels, subracks, enclosures, racks and cabinets (GB/T 19520.16-2015);

--- Part 3-101. Insert box and its plug-in (GB/T 19520.12-2009);

---Part 3-102. Insert handle (GB/T 19520.13-2009);

--- Part 3-103. Coding keys and positioning pins (GB/T 19520.14-2009);

--- Part 3-104. Connector-based plug-in and plug-in interface dimensions (GB/T 19520.15-2009);

--- Part 3-105. Dimensions and design requirements for 1U height chassis (GB/T 19520.17-2010);

---Part 3-106. Applicable dimensions for subracks and enclosures to IEC 60917-2-1 metric cabinets or racks

This part is part 3-106 of GB/T 19520.

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 60297-3-106.2010 "electronic equipment mechanical structure 482.6mm (19in) series machine

Mechanical Dimensions - Part 3-106. Applicable to Adapter Sizes for Casings and Chassis for IEC 60917-2-1 Metric Cabinets or Racks.

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 19290.3-2008 Developing electronic equipment structure mechanical structure modulus sequence Part 2-1. Sectional specification

Interface coordination dimensions for 25mm equipment structures detailing the dimensions of cabinets and racks (IEC 60917-2-1.1993,

IDT);

--- GB/T 19290.6-2018 Development of electronic equipment structure mechanical structure modular sequence - Part 2-4.

The interface coordination dimensions of the 25mm device frame are suitable for adapter or chassis adaptation according to IEC 60297-3-100 (19in)

Dimensions (IEC 60917-2-4..2010, IDT);

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

(all parts)];

---GB/T 19520.12-2009 Electronic equipment structure 482.6mm (19in) series mechanical structure size 3-101

Part. Plug-in box and its plug-in (IEC 60297-3-101.2004, 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 60297 (all parts) specifies the mechanical construction and dimensions of 19in cabinets and racks and their compatible bays and cabinets. Cabinet

The combined use of 19in, based on rack, subrack and chassis, is widely used in all industrial electronics fields worldwide.

IEC 60917 (all parts) is based on metric modular sequence sizes and also specifies the

structure and structure of metric cabinets, racks, subracks and enclosures.

Connection size. Subsequent development of IEC 60917 (all parts) compared to IEC 60297 (all parts), provided on a metric basis

More reasonable design practice for the box and chassis.

To meet the needs of the combined use of two mechanical structures, the IEC 60297 series (19in standard) and the IEC 60917 series (metric standard),

Caused the requirement to install a 19in subrack or chassis in a metric standard cabinet or rack, and vice versa, ie in a 19in rack or rack

Install a metric box or chassis.

To address this requirement and need, it is necessary to determine the appropriate flange mounting position for the 19in or metric box or chassis for the cabinet or rack.

Interface size. These regulations provide an economical solution for installing electronic equipment in existing cabinets or racks. In addition, for electromechanical

Designers have the flexibility to develop a structural system that is suitable for installation in both standard series.

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

Inch, and the size of the metric box or chassis installed in a 19in cabinet or rack is specified in additional IEC 60917-2-4).

Electronic equipment mechanical structure 482.6mm (19in)

Series Mechanical Structure Dimensions - Part 3-106. Application

In accordance with IEC 60917-2-1 metric cabinets or

Fitted dimensions for the chassis and chassis of the rack

1 Scope

This section of GB/T 19520 specifies the flange mounting dimensions for a 19in subrack or enclosure that can be mounted in a metric cabinet or rack.

The additional dimensions of the subrack or enclosure comply with IEC 60297 (all parts) and the additional dimensions of the metric cabinet or rack comply with IEC 60917

(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, and only those 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 dated versions apply 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]

IEC 60297-3-101 Mechanical structure of electronic equipment 482.6 mm (19 in) series - Mechanical structure dimensions - Part 3-101.

And its plug-ins

[Mechanicalstructuresforelectronicequipment-Dimensionsofmechanicalstructuresofthe 482.6mm (19in) series-Part 3-101. Subracksandassociatedplug-inunits]

IEC 60917 (all parts) Developing electronic device structure mechanical structure modulus sequence (Modularorderforthedevel-

Opmentofmechanicalstructuresforelectronicequipmentpractices)

IEC 60917-2-1 Development of electronic equipment - Structures - Part 2 - Part 2

Interface Coordination Dimensions Section 1. Detailed Specification of Cabinet and Rack Size (Modularorderforthedevelopmentofme-

chanicalstructuresforelectronicequipmentpractices-Part

2.Sectionalspecification-Interfaceco-or-

dinationdimensionsforthe25mmequipmentpractice-Section1.Detailspecification-Dimensions Forcabinetsandracks)

IEC 60917-2-4 Development of Electronic Equipment - Structures - Modules - Part 2 - 2

Body interface coordination dimensions for adapters or chassis compliant sizes in accordance with IEC 60297-3-100 (19in) [Modularorderfor

thedevelopmentofmechanicalstructuresforelectronicequipmentpractices-Part