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

GB/T 19520.16-2015

Replacing GB/T 19520.1-2007; GB/T 19520.2-2007

Mechanical structures for electronic equipment -- Dimension of mechanical structures of the 482.6 mm (19 in) series -- Part 3-100: Basic dimensions of front panels, sub-racks, chassis, racks and cabinets

电子设备机械结构 482.6mm(19in)系列机械结构尺寸 第3-100部分：面板、插箱、机箱、机架和机柜的基本尺寸

(English Translation)

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Foreword

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

3-100.2008);

--- Part 3-101. Subracks and associated plug (GB/T 19520.12-2009/IEC 60297-3-101:2004);

--- Part 3-102. plug handle (GB/T 19520.13-2009/IEC 60297-3-102:2004);

--- Part 3-103. Keying and alignment (GB/T 19520.14-2009/IEC 60297-3-103:2004);

--- Section 3-104 Part. connector-based subracks and plug-in interface Size (GB/T 19520.15-2009/IEC 60297-3-104:2006);

--- Part 3-105. 1U height enclosure dimensions and design requirements (GB/T 19520.17-2010/IEC 60297-3-105:2008).

This section GB/T 19520 in Part 3-100.

This section drafted in accordance with GB/T 1.1-2009 given rules.

This Part replaces GB/T 19520.1-2007 "electronic equipment mechanical structure 482.6mm (19in) series of mechanical structure size 1 Parts. panel and housing "and GB/T 19520.2-2007" electronic equipment mechanical structure 482.6mm (19in) series of mechanical structure size Part 2. Cabinets and pitches of rack structures. " this portion of the GB/T 19520.1-2007, GB/T 19520.2-2007 compared to the main technical changes are

as follows.

--- Updated scope (see Chapter 1);

--- Increased the relationship between panels, subracks, chassis, racks and cabinets description (see Chapter 4).

This section uses the translation method is equivalent to using IEC 60297-3-100:2008 "electronic equipment mechanical structure 482.6mm (19in) series machine Mechanical structure size Part 3-100. panels, subracks, chassis, racks and cabinets basic dimensions. " Consistency correspondence between this part of international documents and normative references of our files are as follows.

--- GB/T 4210-2001 Electrotechnical terminology Electromechanical components for electronic equipment [IEC 60050 (581). 1978, IDT];

--- GB/T 19290.1-2003 the development of electronic equipment isomers number sequence mode mechanical structures - Part 1. Generic specification (IEC 60917-1:1998, IDT);

--- GB/T 19520.12-2009 electronic equipment mechanical structure 482.6mm (19in) series of mechanical structure size 3-101 Part I. Subracks and associated plug (IEC 60297-3-101:2004, IDT).

This part of the electrical and electronic equipment by the National Standardization Technical Committee integrated structure (SAC/TC34) and focal points.

This in part by Beijing Sifang Automation Co., Ltd. is responsible for drafting, Huawei Technologies Co., Ltd., State Grid Electric Power Research Institute, Guodian Nanjing Automation Co., Ltd., ZTE Corporation, Nanjing NARI-RELAYS Electric Co., Ltd., XJ Electric shares have Limited, China Shipbuilding Industry Corporation seventh fifteen of Sciences, Beijing Electrical Machinery Industry Technology Research Institute of Economy participated in the drafting.

Introduction

This part of the original GB/T 19520.1-2007 and GB/T 19520.2-2007 merged into one section. Counterweight two parts New prepared to meet the electronic industry's latest market demand. Its purpose is to generate an updated file, and to improve and illustrations the content description. This section contains some of the GB/T 19290.3 (IEC 60917-2-1) and ETSIEN300119 ruler Inch. The two sections into one section, updated the scope of application, as well as the relationship between panels, subracks, chassis, racks and cabinets description.

Electronic equipment mechanical structure 482.6mm (19in) Series of mechanical structure size Part 3-100. panel the basic dimensions of subracks, chassis, racks and cabinets

1 Scope

GB/T 19520 provisions of this part of the 482.6mm (19in) series of panels, the basic dimensions of subracks, chassis, racks and cabinets, GB/T 19520 subsequent relevant part provides device-specific isomers detailed dimensions, these basic size used with other associated parts interface.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

IEC 60050-581 International Electrotechnical Vocabulary Chapter 581. Electromechanical components for electronic equipment (Internationalelectrotechnicalvo-cabulary-Part 581. Electromechanicalcomponentsforelectronicequipment) IEC 60297-3-101 electronic equipment mechanical structure 482.6mm (19in) series of mechanical structure size Part 3-101. Subracks its plug-ins
(Mechanicalstructuresforelectronicequipment-Dimensionsofmechanicalstructuresofthe 482.6mm (19in) series-Part 3-101. Subracksandassociatedplug-inunits) IEC 60917-1 development of electronic equipment isomers number sequence mode mechanical structures - Part 1. Generic specification (Modularorderfor thedevelopmentofmechanicalstructuresforelectronicequipmentpractices-Part 1. Genericstand-ard) the European Telecommunications Standards - Part 3 ETSIEN300119-3 Environmental Engineering (EE) equipment practice. mix of racks and cabinets Engineering requirements (Equipmentengineering (EE)
-Europeantelecommunicationstandardforequipmentprac-tice-Part 3. Engineeringrequirementsformiscellaneousracksandcabinets)

3 Terms and Definitions

And the following terms and definitions defined in IEC 60917-1 and IEC 60050-581 apply to this document.

Base plinth/base

Base is an additional cabinet/rack or its structure as a whole, as a transit, cable entry, (earthquake) reinforcement, or Providing ground safety interval, or provide space for insertion of handling machinery.

Vertical member Rack (cabinet) mounting holes provided on the structural member for the panel, chassis, and into me.

4 Arrangement Overview

Figure 1 illustrates schematically the relationship between the panels, subracks, chassis, racks and cabinets. Cabinets are usually equipped with means for mounting panel insert