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

GB/T 19183.2-2024

Replacing GB/T 19183.2-2003

**Mechanical structures for electrical and electronic equipment -
Outdoor enclosures - Part 2: Coordination dimensions**

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(English Translation)

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

This document is Part 2 of GB/T 19183 "Outdoor enclosures for mechanical structures of electrical and electronic equipment". GB/T 19183 has been published.

The following parts are published.

- Part 1: Design guidelines;
- Part 2: Coordination dimensions;
- Part 3: Environmental requirements, test and safety requirements.

This document replaces GB/T 19183.2-2003 "Electronic equipment mechanical structure outdoor enclosures Part 2: Coordination of boxes and cabinets Compared with GB/T 19183.2-2003, in addition to structural adjustments and editorial changes, the main technical changes are as follows.

--- Changed the "scope" from "cabinets and cabinets exposed to outdoor environments without weather protection" to "fixed in places without weather protection" "Outdoor application enclosures for specified use" (see Chapter 1, Chapter 1 of the 2003 edition);

--- Change "coordinated dimensions of cabinets and enclosures" to "coordinated dimensions" (see Chapter 5, Chapter 4 of the 2003 edition);

--- Changed the increase and decrease principles of the frame height, frame width and frame depth (see footnote a in Table 1, footnote

Note a and footnote a in Table 3, Note 1 in Table 1, Note 1 in Table 2 and Note 1 in Table 3 of the 2003 edition);

--- Changed the calculation formulas for the height, width and depth of the shape (see footnote b in Table 1, footnote b in Table 2).

Footnote b and footnote b in Table 3, footnote 2 in Table 1, footnote 2 in Table 2 and footnote 2 in Table 3 in the 2003 edition).

This document is equivalent to IEC 61969-2:2011 "Mechanical structures for outdoor enclosures of electronic equipment Part 2: Coordinated dimensions".

A new chapter "Terms and Definitions" has been added to this document.

The following minimal editorial changes were made to this document.

--- In order to coordinate with the existing standards, the name of the standard is changed to "Mechanical structures for outdoor enclosures of electrical and electronic equipment Part 2: Coordination size".

Introduction

GB/T 19183 "Outdoor enclosures for mechanical structures of electrical and electronic equipment" is for outdoor electrical and electronic equipment used in places without weather protection.

It is designed for electronic equipment casing and is intended to consist of three parts.

--- Part 1: Design guidelines. The purpose is to provide a general specification for the requirements for enclosures used outdoors without weather protection.

--- Part 2: Coordinated dimensions. The purpose is to ensure that the external dimensions of the outdoor enclosure are coordinated by specifying the internal and external dimensions of the outdoor enclosure.

and consistency of internal connection dimensions.

--- Part 3: Environmental requirements, tests and safety requirements. The purpose is to meet the storage, the requirements for transportation and final installation conditions

establish the basic environmental performance standards for outdoor enclosures.

With the continuous development of electrical and electronic equipment, outdoor enclosures are increasingly used.

The size standard of "Outdoor Enclosure" only focuses on the overall coordinated size of the outdoor enclosure.

Mechanical structures for electrical and electronic equipment Outdoor enclosures Part 2: Coordinated dimensions

1 Scope

This document applies to the design of enclosures for outdoor applications intended for stationary use in non-weather-protected locations as specified in IEC 61969-1.

Internal and external coordinated dimensions comply with IEC 60917-2. Internal dimensions comply with IEC 60917-2-2 and IEC 60297-3-1011) Compared with IEC 60917-2, the external dimensions are enlarged to meet the design requirements of outdoor specific conditions.

1) IEC 61969-2:2011 is written as IEC 60297-3. This international standard has been replaced by IEC 60297-3-101.

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document.

For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to this document.

IEC 60297-3-101 Mechanical structures of electronic equipment 482.6 mm (19 in) series mechanical structure dimensions Part 3-101. Plug Note. GB/T 19520.12-2009 Electronic equipment mechanical structure 482.6mm (19in) series mechanical structure dimensions Part 3-101. Plug-in boxes and their plug-ins Parts (IEC 60297-3-101:2004, IDT) IEC 60917-2 Developing electronic equipment structures - Mechanical structure module series - Part 2: Sectional specification for 25 mm equipment structures equipment practice) Note. GB/T 19290.2-2003 Developing electronic equipment structure mechanical structure module series Part 2: Sectional specification 25mm equipment structure connection Coordinated dimensions (IEC 60917-2:1992, IDT) IEC 60917-2-2 Developing electronic equipment structures - Mechanical structure module series - Part 2: Sectional specification for 25 mm equipment structures Note. GB/T 19290.4-2009 Developing electronic equipment structure mechanical structure module series Part 2-2. Sectional specification 25mm equipment structure Interface coordination dimension detail specification Dimensions of

subracks, chassis, backplanes, panels and plug-ins (IEC 60917-2-2:1994, IDT) Note. GB/T 19183.1-2024 Mechanical structures for outdoor enclosures of electrical and electronic equipment Part 1: Design guidelines (IEC 61969-1:2023, IDT)

3 Terms and definitions

There are no terms or definitions that require definition in this document.