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

GB/T 20159.7-2008

**Classification of environmental conditions -- Guidance for the
correlation and transformation of environmental condition classes to
the environment tests -- Portable and non-stationary use**

环境条件分类 环境条件分类与环境试验之间的关系及转换指南 携带和非固定使用

(English Translation)

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Foreword

GB/T 20159 "between the environmental conditions classification Classification of environmental conditions and environmental tests Relationship and Conversion Guide" is currently divided into the following if Cadre points.

--- GB/T 20159.1 Classification of environmental conditions Environmental conditions of the relationship between the classification and environmental testing and conversion guidelines storage;

--- GB/T 20159.2 environmental conditions and the relationship between the free conversion guide transportation Classification of environmental conditions and environmental tests;

--- GB/T 20159.3 between environmental conditions classification Classification of environmental conditions and environmental tests have climate relationship and Conversion Guide Stationary use protective properties;

--- GB/T 20159.4 Classification of environmental conditions between the Classification of environmental conditions and environmental tests the relationship between climate and no conversion guide Stationary use protective properties;

--- GB/T 20159.5 between environmental conditions classification Classification of environmental conditions and environmental tests Relations and ground vehicles Transition Guide Transport vehicles;

--- GB/T 20159.6 relationship between environmental conditions classification Classification of environmental conditions and environmental tests and Conversion Guide Marine;

--- GB/T 20159.7 relationship between environmental conditions classification Classification of environmental conditions and environmental testing and conversion guide and carry Non-stationary use;

--- GB/T 20159.8 Classification of environmental conditions and environmental conditions to convert the relationship between the classification and Environmental Testing Guide Introduction;

This is Part 7 GB/T 20159 of.

The partial modification using IEC TR60721-4-7:2003 "Classification of environmental conditions. Part 4-7. IEC 60721-3 Environmental conditions in points Classes and IEC 60068 in the relationship between the environmental testing and conversion guide to carry and use non-fixed "(in English).

Taking into account the actual situation in China, this part of the IEC 60721-4-7 made the following modifications.

--- "IEC 60721 Part of the present" was changed to "GB/T 20159 in this section."

--- The "Technical Report" to "in this section."

--- Remove the IEC 60721-4-7 foreword.

--- Increase the national standard foreword.

--- Cited international standards of our standards, rather than international standards, and change the order in which to fit the national conditions of China.

--- For the original IEC referenced in IEC 60068-2-56. 1988 (corresponding to test Cb), due to the merger has now revised IEC 60068-2-78:2001 (corresponding to test Cab), this section uses when referring to reference the appropriate GB/T 2423.3-2006, corresponding to the test for the Cab.

--- According to GB/T 4798.7 parameters Appendix A Form A. c 1) is the relative humidity level in line arguments made repair 7K5 Changed from "4%" is replaced by "5%", and the corresponding increase in footnotes.

--- Within each table after the table name in parentheses narrative level, according to GB/T 4798.7 the content of IEC 's narrative be repaired Changes and additions.

--- For the mechanical conditions of Table 5, Table 6, Table 7 acceleration spectral density

(ASD) unit, IEC original use m^2/s^3 , in this section According to China's relevant mechanical conditions test GB instead (m/s^2) 2/Hz, and add the corresponding footnote in Table 6.

Appendix A of this section is an informative annex.

This part of the National Electrical and Electronic Products Environmental conditions and environmental tests for Standardization Technical Committee (SAC/TC8) and focal points.

This section is drafted. Guangzhou Electric Apparatus Research Institute.

1 Scope and purpose

GB/T 20159 This part is related to GB/T 4798.7 Environmental conditions and environmental tests GB/T 2423 and transferred between Change guide.

Environment can consist of many environmental conditions composition, such as mechanical, climatic, biological and other chemical and mechanical-based active substances effect. In this section, only consider the mechanical conditions and climatic conditions.

The purpose of this section is to provide guidance for the specification writer and an easy application form, the form these conditions are interrelated and conversion.

2 Normative references

The following documents contain provisions which, through reference GB/T 20159 in this section constitute provisions of this section. Cited documents dated, its all subsequent amendments (not including errata content) or revisions do not apply to this section, however, encourage the parties to reach an agreement under this section Research on whether to use the latest versions of these documents. For undated reference documents, the latest versions apply to this section.

GB/T 2421-1999 Environmental testing for electric and electronic products - Part 1. General (idt IEC 60068-1. 1988, IDT) GB/T 2423.1-2008 Environmental testing for electric and electronic products Part 2. Test methods Test A. Cold (IEC 60068-2-1.

2007, IDT)

GB/T 2423.2-2008 Environmental testing for electric and electronic products Part 2. Test methods Test B. Dry heat (IEC 60068-2-2.

2007, IDT)

GB/T 2423.3-2006 Environmental testing for electric and electronic products Part 2. Test methods - Test Cab. Damp heat test (IEC 60068-2-78:2001, IDT) GB/T 2423.4-2008

Environmental testing for electric and electronic products Part 2. Test methods - Test Db. Damp heat (12h + 12h Cycle) (IEC 60068-2-30:2005, IDT) GB/T 2423.5-1995

Environmental testing for electric and electronic products Part 2. Test methods Test Ea and guidance. Shock (Idt IEC 60068-2-27. 1987) GB/T 2423.7-1995 Environmental testing for electric and electronic products Part II. Test Ec and guidance. Drop and turn Down (Primarily for equipment - type specimens) (idt IEC 60068-2-31. 1982) GB/T 2423.8-1995 Environmental testing for electric and electronic products Part II. Test methods - Test Ed. Free fall (Idt IEC 60068-2-32:1990) GB/T 2423.10-2008 Environmental testing for electric and electronic products Part 2. Test methods Test Fc. Vibration (sinusoidal) (IEC 60068-2-6:1995, IDT) GB/T 2423.21-2008 Environmental testing for electric and electronic products Part 2. Test methods - Test M. Low air pressure (IEC 60068-2-13. 1983, IDT) GB/T 2423.22-2002 Environmental testing for electric and electronic products Part 2. Test methods - Test N. Temperature change (Idt IEC 60068-2-14. 1984) GB/T 2423.24-1995 Environmental testing for electric and electronic products Part 2. Test methods - Test Sa. too on the analogue terrestrial Solar radiation (idt IEC 60068-2-5. 1975) GB/T 2423.38-2008 Environmental testing for electric and electronic products Part 2. Test methods Test R. Water test method and guide