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GB/T 2423.38-2021 / IEC 60068-2-18:2017

Replacing GB/T 2423.38-2008

Environmental testing - Part 2: Test methods -

Test R: Water test method and guidance

环境试验 第2部分：试验方法

试验 R：水试验方法和导则

(IEC 60068-2-18:2017, Environmental testing - Part 2-18: Tests -
Test R and guidance: Water, IDT)

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Foreword

This document is drafted in accordance with GB/T 1.1-2020 "Directives for standardization - Part 1: Rules for the structure and drafting of standardizing documents".

This document is Part 38 of GB/T 2423. For the issued parts of GB/T 2423, see Annex NA.

This document replaces GB/T 2423.38-2008 "Environmental testing for electric and electronic products - Part 2: Test methods - Test R: Water test method and guidance". Compared with GB/T 2423.38-2008, in addition to structural adjustment and editorial changes, the main technical changes are as follows:

- a) Add test method Rb 3: fan jet nozzle (see 6.4);
- b) Add test guidance for test method Rb 3: fan jet nozzle (see D.2.3).

This document, using translation method, is identical to IEC 60068-2-18:2017 "Environmental testing - Part 2-18: Tests - Test R and guidance: Water".

This document has mainly made the following editorial changes:

- a) Change the name of this document to "Environmental testing - Part 2: Test methods - Test R: Water test method and guidance";
- b) Add an annex "Constituent documents of GB/T 2423" (see Annex NA).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. The issuing authority of this document shall not be held responsible for identifying any or all such patent rights.

This document was proposed by and shall be under the jurisdiction of National Technical Committee 8 on Environmental Conditions of Electric and Electronic Products and Environmental Test of Standardization Administration of China (SAC/TC 8).

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Environmental testing - Part 2: Test methods -

Test R: Water test method and guidance

1 Scope

This document provides methods of test applicable to products which, during transportation, storage or in service, can be subjected to falling water drops, impacting water, immersion or high pressure water impact. The purpose is to verify the ability of enclosures, covers and seals to maintain components and equipment in good working order after and during testing.

These tests are not corrosion tests and cannot be considered and used as such.

Established water tests in other documents are not intended to simulate natural rainfall and their quoted intensities are too high to be adopted for that purpose. Therefore, in addition to the general water test, test R includes an artificial rain test based upon natural conditions but not taking into account high wind speeds generally associated with natural rain.

Guidance is given on the applicability of the tests and the severities to be selected.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardisation at the following addresses:

IEC Electropedia: <http://www.electropedia.org/>

ISO Online browsing platform: <http://www.iso.org/obp>

3.1

Rain

Precipitation in the form of water drops.

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