

BS EN 61587-2:2011



BSI Standards Publication

Mechanical structures for electronic equipment Tests for IEC 60917 and IEC 60297

Part 2: Seismic tests for cabinets and racks

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National foreword

This British Standard is the UK implementation of EN 61587-2:2011. It is identical to IEC 61587-2:2011. It supersedes BS EN 61587-2:2001 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee EPL/48, Electromechanical components and mechanical structures for electronic equipment.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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Compliance with a British Standard cannot confer immunity from legal obligations.

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English version

**Mechanical structures for electronic equipment -
Tests for IEC 60917 and IEC 60297 -
Part 2: Seismic tests for cabinets and racks
(IEC 61587-2:2011)**

Structures mécaniques pour équipements
électroniques -
Essais pour la CEI 60917
et la CEI 60297 -
Partie 2: Essais sismiques pour baies et
bâti
(CEI 61587-2:2011)

Mechanische Bauweisen für elektronische
Einrichtungen -
Prüfungen für IEC 60917 und IEC 60297 -
Teil 2: Seismische Prüfungen für
Schränke und Gestelle
(IEC 61587-2:2011)

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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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Foreword

The text of document 48D/471/FDIS, future edition 2 of IEC 61587-2, prepared by SC 48D, "Mechanical structures for electronic equipment", of IEC/TC 48, "Electromechanical components and mechanical structures for electronic equipment" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 61587-2:2011.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2012-06-29
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2014-09-29

This document supersedes EN 61587-2:2001.

EN 61587-2:2011 includes the following significant technical changes with respect to EN 61587-2:2001:

EN 61587-2:2001 specified the test condition with one size of the cabinet, and one load distribution. The specified acceleration condition for the test specimen was single-axis and one of the RRS (required response spectra) specified in the standard was selected. The test was aimed to obtain the reference for the structural strength of the enclosure against the specified seismic intensity. Earthquakes are actually random phenomena that are much more carefully simulated by tri-axial simultaneous operation. The demand of tri-axial excitation has emerged as a more accurate representation of an earthquake.

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Endorsement notice

The text of the International Standard IEC 61587-2:2011 was approved by CENELEC as a European Standard without any modification.

Annex ZA
(normative)**Normative references to international publications
with their corresponding European publications**

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60068-2-6	-	Environmental testing - Part 2-6: Tests - Test Fc: Vibration (sinusoidal)	EN 60068-2-6	-
IEC 60068-2-47	-	Environmental testing - Part 2-47: Tests - Mounting of specimens for vibration, impact and similar dynamic tests	EN 60068-2-47	-
IEC 60068-2-57	-	Environmental testing - Part 2-57: Tests - Test Ff: Vibration - Time- history method	EN 60068-2-57	-
IEC 60068-3-3	-	Environmental testing - Part 3: Guidance - Seismic test methods for equipments	EN 60068-3-3	-
IEC 60297	Series	Dimensions of mechanical structures of the 482,6 mm (19 in) series	EN 60297	Series
IEC 60917	Series	Modular order for the development of mechanical structures for electronic equipment practices	EN 60917	Series

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