

Australian Standard™

Environmental testing

**Part 3.6: Supporting documentation and
guidance—Confirmation of the
performance of temperature/humidity
chambers**

This Australian Standard was prepared by Committee EL-026, Protective Enclosures and Environmental Testing for Electrical/Electronic Equipment. It was approved on behalf of the Council of Standards Australia on 28 February 2003 and published on 8 May 2003.

The following are represented on Committee EL-026:

Australian Chamber of Commerce and Industry
Australian Electrical and Electronic Manufacturers Association
Electrical Compliance Testing Authorities
Electrical Regulatory Authorities Council
Electricity Supply Association of Australia
Testing Interests (Australia)

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PREFACE

This Standard was prepared by the Standards Australia Committee EL-026, Protective Enclosures and Environmental Testing for Electrical/Electronic Equipment.

The objective of this Standard is to provide the electrotechnology industry with a complete set of environmental test procedures published as a series under AS 60068 *Environmental testing*. This Standard is Part 3.6 of that series.

This Standard is identical with, and has been reproduced from, IEC 60068-3-6:2001, *Environmental testing – Part 3-6: Supporting documentation and guidance – Confirmation of the performance of temperature/humidity chambers*.

As this Standard is reproduced from an International Standard, the following applies:

- (a) Its number does not appear on each page of text and its identity is shown only on the cover and title page.
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In this Standard, the following print types are used:

- requirements proper: in arial type;
- *test specifications: in italic type;*
- explanatory matter: in smaller arial type.

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INTRODUCTION

AS 60068 contains fundamental information on environmental testing procedures and severities.

The expression "environmental conditioning" or "environmental testing" covers the natural and artificial environments to which components or equipment may be exposed so that an assessment can be made of their performance under conditions of use, transport and storage to which they may be exposed in practice.

Temperature/humidity chambers used for "environmental conditioning" or "environmental testing" are not described in any publication, although the method of maintaining and measuring temperature and/or humidity has a great influence on test results. The physical characteristics of temperature/humidity chambers can also influence test results.

STANDARDS AUSTRALIA

Australian Standard**Environmental testing****Part 3.6: Supporting documentation and guidance—Confirmation of the performance of temperature/humidity chambers**

1 Scope

This part of IEC 60068 provides a uniform and reproducible method of confirming that temperature and humidity test chambers without load conform to the requirements, specified in climatic test procedures contained in IEC 60068-2 and is destined for users when conducting regular chamber performance monitoring.

2 Normative references

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 reference document (including any amendments) applies.

IEC 60068-3-4, *Environmental testing – Part 3-4: Supporting documentation and guidance – Damp heat tests*

IEC 60068-3-5, *Environmental testing – Part 3-5: Supporting documentation and guidance – Confirmation of the performance of temperature chambers*

IEC 60068-3-7, *Environmental testing – Part 3-7: Supporting documentation and guidance – Measurements in temperature chambers for test A and test B (with load)*

IEC 60584-1, *Thermocouples – Part 1: Reference tables*

IEC 60751, *Industrial platinum resistance, thermometer sensors*

ISO 10012-1, *Quality assurance requirements for measuring equipment – Part 1: Metrological confirmation system for measuring equipment*

ISO 10012-2, *Quality assurance for measuring equipment – Part 2: Guidelines for control of measurement processes*

ISO 4677-1, *Atmospheres for conditioning and testing – Determination of relative humidity – Part 1: Aspirated psychrometer method*

ISO (unnumbered), *Guide to the Expression of Uncertainty in Measurement*

3 Definitions

For the purpose of this part of IEC 60068, the following definitions apply. For definitions regarding temperature testing, refer to IEC 60068-3-5.

NOTE Unless otherwise specified 'humidity' is relative humidity (RH).