

Australian Standard™

Environmental testing

**Part 2.78: Tests—Test Cab: Damp heat,
steady state**

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 23 October 2003 and published on 28 November 2003.

The following are represented on Committee EL-026:

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

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STANDARDS AUSTRALIA

RECONFIRMATION

OF

AS 60068.2.78–2003

Environmental testing

Part 2.78: Tests–Test Cab: Damp

heat, steady state

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steady state**

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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 to supersede AS 1099.2.3—1990, *Basic environmental testing procedures for electrotechnology*, Part 2.3: *Tests—Test Ca—Damp heat, steady state*.

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 2.78 of that series.

This Standard is identical with, and has been reproduced from, IEC 60068-2-78: 2001, *Environmental testing – Part 2-78: Tests—Test Cab: Damp heat, steady state*.

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

- (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.

Any international Standard referenced should be replaced by an equivalent Australian Standard when one is available. The availability of equivalent Australian Standards can be determined either from the Standards Australia catalogue or from the Standards Australia website (www.standards.com.au).

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STANDARDS AUSTRALIA

Australian Standard**Environmental testing****Part 2.78: Tests—Test Cab: Damp heat, steady state**

1 Scope

This part of IEC 60068 provides a test method for determining the suitability of electrotechnical products, components or equipment for transportation, storage and use under conditions of high humidity. The test is primarily intended to permit the observation of the effect of high humidity at constant temperature without condensation on the specimen over a prescribed period.

This test provides a number of preferred severities of high temperature, high humidity and test duration. The test can be applied to both heat-dissipating and non-heat-dissipating specimens.

The test is applicable to small equipment or components as well as large equipment having complex interconnections with test equipment external to the chamber, requiring a set-up time which prevents the use of preheating and the maintenance of specified conditions during the installation period.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of IEC 60068. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However parties to agreements based on this part of IEC 60068 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

IEC 60068-1, Environmental testing – Part 1: General and guidance

IEC 60068-2-2, *Basic environmental testing procedures – Part 2: Tests – Tests B: Dry heat*

3 General description

In this test, the specimen is introduced into the chamber, both of which are at laboratory temperature.

The conditions in the chamber are adjusted to the severity required according to clause 5 and maintained for the prescribed time.

Because the conditions of temperature and humidity adjacent to a heat-dissipating specimen can be different from the specified test values, the measurement of these parameters is prescribed in the manner used for free air conditions (see 4.4 and 4.6.2 of IEC 60068-1).