

AS 1099.1—1989  
IEC 68-1 — 1988

Australian Standard<sup>®</sup>

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**Basic environmental testing  
procedures for electrotechnology**

**Part 1: General**

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(IEC Title: Environmental testing, Part 1: General and guidance)

This Australian Standard was prepared by Committee ET/5, Environmental Testing Procedures. It was approved on behalf of the Council of Standards Australia on 25 October 1988 and published on 16 January 1989.

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The following interests are represented on Committee ET/5:

- Aerospace Technologies of Australia
- Confederation of Australian Industry
- Department of Administrative Services
- Department of Defence
- Electricity Supply Association of Australia
- Institution of Engineers, Australia
- National Association of Testing Authorities
- Society of Automotive Engineers, Australasia
- Telecom Australia
- University of New South Wales

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## PREFACE

This Standard was prepared by Committee ET/5, Environmental Testing Procedures, to supersede AS 1099.1—1980, *Basic environmental testing procedures for electrotechnology*, Part 1: *General*. It is identical with and reproduced from IEC 68-1 (1988), *Environmental testing*, Part 1: *General and guidance*.

Specific requirements for the performance of products are not specified in these Standards. The relevant product Standard should define the allowable performance limits during and after the application of appropriate test procedures together with the chosen severity for the test to be applied. Typical severities for the various tests are listed together with a method of classification for application to tested products.

This Standard forms part of the environmental test method series for electrotechnology. It defines and specifies the various atmospheric conditions which are to be used for measurements and tests designed to assess the ability of specimens to perform their expected functions under conditions applying to transportation and storage and other aspects of operation. Although designed for testing electrotechnical products this Standard is not restricted to them and may be used in other fields where so desired.

The page numbers of the IEC English text are given in the bottom left corner of each page of this Standard.

While the use of AS 1099 permits much useful information to be obtained, no information is given on assessing quality assurance aspects of a particular product or of products. For such information, reference must be made to the relevant product Standard and suitable Standards on quality assurance or reliability procedures and sampling techniques. In particular, reference should be made to the following Australian Standards:

AS	
1199	<i>Sampling procedures and tables for inspection by attributes</i>
1399	<i>Guide to AS 1199, Sampling procedures and tables for inspection by attributes</i>
1821	<i>Suppliers quality systems for design, development, production and installation</i>
1822	<i>Suppliers quality systems for production and installation</i>
1823	<i>Suppliers quality inspection systems</i>
2000	<i>Guide to AS 1821—1823, Suppliers Quality Systems</i>

For the purposes of this Australian Standard, the IEC text should be modified as follows:

*Cross references:* The cross references to other publications should be replaced by references to Australian Standards:

<i>Reference to international Standard</i>	<i>Australian Standard</i>
IEC 68-2 <i>Environmental testing Part 2: Tests</i> (1988)	AS 1099.2 <i>Basic environmental testing procedures for electrotechnology, Part 2: Tests</i>
IEC 50 <i>International electrotechnical vocabulary (IEV)</i> (1979)	AS 1852 <i>International electrotechnical vocabulary (IEV)</i>
IEC 160 <i>Standard atmospheric conditions for test purposes</i> (1963)	—
IEC 271 <i>List of basic terms, definitions and related mathematics for reliability</i> (1974)	AS 1211.1 <i>Reliability of electronic equipment and components Part 1: Terminology</i>
IEC 529 <i>Classification of degrees of protection provided by enclosures</i> (1976)	AS1939 <i>Classification of degrees protection provided by enclosures for electrical equipment</i>
IEC 695 <i>Fire hazard testing</i> (1982)	AS 2420 <i>Fire test methods for solid insulating materials and non-metallic enclosures used in electrical equipment</i>
IEC 721 <i>Classification of environmental conditions</i> (1981)	—
ISO 554 <i>Standard atmospheres for conditioning and/or testing — Specifications</i> (1976)	—
ISO 3205 <i>Preferred test temperatures</i> (1976)	—

## CONTENTS

	<i>Page</i>
INTRODUCTION .....	4
SCOPE .....	7
OBJECT .....	7
DEFINITIONS .....	7
STANDARD ATMOSPHERIC CONDITIONS .....	11
USE OF METHODS OF TEST .....	14
CLIMATIC SEQUENCE .....	14
COMPONENT CLIMATIC CATEGORY .....	14
APPLICATION OF TESTS .....	14
SIGNIFICANCE OF THE NUMERICAL VALUE OF A QUANTITY .....	15
APPENDICES	
A    COMPONENT CLIMATIC CATEGORY .....	17
B    GENERAL GUIDANCE .....	19

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