



## **High-voltage test techniques**

### **Part 1: General definitions and test requirements**



AS IEC 60060.1:2018

This Australian Standard® was prepared by EL-007, Power Switchgear. It was approved on behalf of the Council of Standards Australia on 27 September 2018.

This Standard was published on 18 October 2018.

The following are represented on Committee EL-007:

- Australian Industry Group
- Energy Networks Australia
- Engineers Australia
- Testing Interest of Australia
- University of New South Wales

This Standard was issued in draft form for comment as DR AS IEC 60060.1:2018.

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ISBN 978 1 76072 201 2



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First published as AS IEC 60060.1:2018.

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## Preface

This Standard was prepared by the Standards Australia Committee EL-007, Power Switchgear.

The objective of this Standard is to set out general definitions and test requirements applicable to dielectric tests with alternating voltage, dielectric tests with direct voltage, dielectric tests with impulse voltage and dielectric tests with combinations of the above. This document is applicable to tests on equipment having its highest voltage for equipment  $U_m$  above 1 kV.

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## HIGH-VOLTAGE TEST TECHNIQUES –

## Part 1: General definitions and test requirements

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International Standard IEC 60060-1 has been prepared by IEC technical committee 42: High-voltage test techniques.

This third edition of IEC 60060-1 cancels and replaces the second edition, published in 1989, and constitutes a technical revision.

The significant technical changes with respect to the previous edition are as follows:

- a) The general layout and text was updated and improved to make the standard easier to use.
- b) Artificial pollution test procedures were removed as they are now described in IEC 60507.
- c) Measurement of impulse current has been transferred to a new standard on current measurement (IEC 62475).
- d) The atmospheric correction factors are now presented as formulas.

- e) A new method has been introduced for the calculation of the time parameters of lightning impulse waveforms. This improves the measurement of the time parameters of lightning impulses with oscillations or overshoot.

The text of this standard is based on the following documents:

FDIS	Report on voting
42/277/FDIS	42/282/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2

A list of all the parts in the IEC 60060 series, under the general title *High-voltage test techniques*, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to this specific publication. At this date, the publication will be:

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