

Australian Standard<sup>®</sup>

**Wind turbines**

**Part 2: Design requirements for small  
wind turbines**



This Australian Standard® was prepared by Committee EL-048, Wind Turbine Systems. It was approved on behalf of the Council of Standards Australia on 14 March 2013. This Standard was published on 28 March 2013.

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The following are represented on Committee EL-048:

- Australian Industry Group
  - Clean Energy Council
  - Clean Energy Regulator
  - Engineers Australia
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This Standard was issued in draft form for comment as DR AS IEC 61400.2.

Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through the public comment period.

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## PREFACE

This Standard was prepared by the Standards Australia Committee EL-048, Wind Turbine Systems, to supersede AS 61400.2(Int)—2006, *Wind turbines, Part 2: Design requirements for small wind turbines*.

The objective of this Standard is to provide designers, manufacturers, test laboratories and users with requirements for small wind turbines (viz. with a swept area up to 200 m<sup>2</sup>, see Clause 3.48).

The objective of this revision is to confirm the adoption of IEC 61400-2 as a full Australian Standard and update the list of Australian Standards to be used as alternatives to international referenced documents.

For the design and manufacture of products intended to be installed in locations with severe wind climates, such as cyclonic areas of Australia, see the AS/NZS 1170 series and other appropriate Australian wind loading Standards.

This Standard is identical with, and has been reproduced from IEC 61400-2, Ed.2.0 (2006), *Wind turbines—Part 2: Design requirements for small wind turbines*.

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

- (a) Its number appears on the cover and title page while the International Standard number appears only on the cover.
- (b) In the source text ‘this part of IEC 61400’ should read ‘this Australian Standard’.
- (c) A full point substitutes for a comma when referring to a decimal marker.

References to International Standards should be replaced by references to Australian or Australian/New Zealand Standards, as follows:

<i>Reference to International Standard</i>	<i>Australian Standard</i>
IEC	AS
60034 Rotating electrical machines	60034 Rotating electrical machines
60034-1 Part 1: Rating and performance	60034.1 Part 1: Rating and performance
60034-5 Part 5: Degrees of protection provided by the integral design of rotating electrical machines (IP code)—Classification	60034.5 Part 5: Degrees of protection provided by the integral design of rotating electrical machines (IP Code)—Classification
60034-8 Part 8: Terminal markings and direction of rotation	60034.8 Part 8: Terminal markings and direction of rotation (IEC 60034-8, Ed.3 (2007) MOD)
60038 IEC standard voltages	60038 Standard voltages
60204 Safety of machinery—Electrical equipment of machines	60204 Safety of machinery—Electrical equipment of machines
60204-1 Part 1: General requirements	60204.1 Part 1: General requirements (IEC 60204-1, Ed.5 (FDIS) MOD)
ISO/IEC	AS ISO/IEC
17025 General requirements for the competence of testing and calibration laboratories	17025 General requirements for the competence of testing and calibration laboratories
ISO	AS
2394 General principles on reliability for structures	5104 General principles on reliability for structures

The terms ‘normative’ and ‘informative’ have been used in this Standard to define the application of the annex to which they apply. A ‘normative’ annex is an integral part of a Standard, whereas an ‘informative’ annex is only for information and guidance.

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