

Australian Standard[®]

Standard voltages



This Australian Standard® was prepared by Committee EL-034, Power Quality. It was approved on behalf of the Council of Standards Australia on 3 December 2012. This Standard was published on 24 December 2012.

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 - Australian Industry Group
 - Australian Information Industry Association
 - Bureau of Steel Manufacturers of Australia
 - Consumer Electronics Suppliers Association
 - Consumers Federation of Australia
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 - Telstra Corporation
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This Standard was issued in draft form for comment as DR AS 60038.

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 Joint Standards Australia/Standards New Zealand Committee EL-034, Power Quality, to supersede AS 60038—2000, *Standard voltages*. After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this Standard as an Australian Standard rather than an Australian/New Zealand Standard.

The objective of this Standard is to specify standard voltage values which are intended to serve as preferential values for the nominal voltage of electrical supply systems, and as reference values for equipment and system design.

This Standard does not apply to voltages representing or transmitting signals or measured values, standard voltages of components and parts used within electrical devices or items of equipment.

This Standard is an adoption with national modifications and has been reproduced from IEC 60038, Ed.7.0 (2009), *IEC standard voltages*.

Variations to IEC 60038:2009 are indicated at the appropriate places throughout this Standard. Strikethrough (~~example~~) identifies IEC text, tables and figures which, for the purpose of this Australian Standard, are deleted. Where text, tables or figures are added, each is set in its proper place and identified by shading (example).

There are mandatory footnotes (footnote b) and c)) applicable to Table 2, d.c. and a.c. traction systems.

Additional information on highest and lowest voltage values according to IEC and ANSI is given in Appendix ZZ.

AS 61000.3.100, *Electromagnetic compatibility (EMC)—Limits—Steady state voltage limits in public electricity systems*, describes how to monitor power systems and apply the limits set in AS 60038 (this Standard).

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 publication’ should read ‘this Australian Standard’.
- (c) A full point substitutes for a comma when referring to a decimal marker.

The term ‘informative’ has been used in this Standard to define the application of the Annex or Appendix to which it applies. An ‘informative’ Annex/Appendix is only for information and guidance.

CONTENTS

	<i>Page</i>
1 Scope	1
2 Normative references.....	1
3 Terms and definitions.....	2
4 Standard voltages	4
4.1 AC systems having a nominal voltage between 100 V and 1 000 V inclusive and related equipment	4
4.2 DC and a.c. traction systems	6
4.3 AC three-phase systems having a nominal voltage above 1 kV and not exceeding 35 kV and related equipment	7
4.4 AC three-phase systems having a nominal voltage above 35 kV and not exceeding 230 kV and related equipment	9
4.5 AC three-phase systems having a highest voltage for equipment exceeding 245 kV	10
4.6 Equipment having a nominal voltage below 120 V a.c. or below 750 V d.c.	10
Annex A (informative) highest and lowest voltage values at supply and utilization terminals for a.c. systems having a nominal voltage between 100 V and 1 000 V .	12
Appendix ZZ (informative) harmonized highest and lowest voltage values at supply and utilization terminals for 50 Hz and 60 Hz ac systems having a nominal voltage between 100 V and 1 000 V	15
Bibliography	14
Table 1 – Highest and lowest voltage values at supply and utilization terminals for a.c. systems and related equipment in Australia having a nominal voltage between 100 V and 1000 V	5
Table 2 – d.c. and a.c. traction systems	7
Table 3 – a.c. three-phase systems in Australia having a nominal voltage above 1 kV and not exceeding 35 kV and related equipment	8
Table 3A – a.c. single wire earth return (swer) systems	9
Table 4 – a.c. three-phase systems in Australia having a nominal voltage above 35 kv and not exceeding 230 kV and related equipment	9
Table 5 – AC three-phase systems having a highest voltage forequipment exceeding 245 kV	10
Table 6 – Equipment having a nominal voltage below 120 V a.c. or below 750 V d.c.....	11

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