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AS IEC 62040.3—2012

Australian Standard[®]

Uninterruptible power systems (UPS)

**Part 3: Method of specifying the
performance and test requirements**



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The following are represented on Committee EL-027:

- Australian Communications and Media Authority
 - Australian Industry Group
 - Bureau of Steel Manufacturers of Australia
 - RMIT University
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Uninterruptible power systems (UPS)

Part 3: Method of specifying the performance and test requirements

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PREFACE

This Standard was prepared by the Standards Australia Committee EL-027, Power Electronics, to supersede AS 62040.3—2002, *Uninterruptible power systems (UPS)—Part 3: Method of specifying the performance and test requirements*.

The objective of this Standard is to provide manufacturers, designers and users with a means of specifying performance and test requirements of a complete uninterruptible power system.

This Standard is identical with, and has been reproduced from IEC 62040-3, Ed.2.0 (2011), *Uninterruptible power system (UPS), Part 3: Method of specifying the performance and test requirements*.

IEC 62040-3 Ed.2.0 (2011) contained errors in Table 3, sub-clauses 6.2.2.6, 6.4.1.2, and Figure A.7. A corrigendum was issued by IEC in September 2011 to rectify these errors. The Corrigendum 1 has been added at the end of the source text.

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

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60068	Environmental testing	60068	Environmental testing
60068-2-1	Part 2-1: Tests—Test A: Cold	60068.2.1	Part 2.1: Tests—Test A: Cold
60068-2-2	Part 2-2: Tests—Test B: Dry heat	60068.2.2	Part 2.2: Tests—Test B: Dry heat
60068-2-27	Part 2-27: Tests—Test Ea and guidance: Shock	60068.2.27	Part 2.27: Tests—Test Ea and guidance: Shock
60068-2-78	Part 2-78: Tests—Test Cab: Damp heat, steady state	60068.2.78	Part 2.78: Tests—Test Cab: Damp heat, steady state
60146	Semiconductor converters—	60146	Semiconductor converters
60146-2	Part 2: Self-commutated semiconductor converters including direct d.c. converters	60146.2	Part 2: Self-commutated semiconductor converters including direct d.c. converters
		AS/NZS	
60950	Information technology equipment—Safety	60950	Information technology equipment—Safety
60950-1	Part 1: General requirements	60950.1	Part 1: General requirements
60990	Methods of measurement of touch current and protective conductor current	60990	Methods of measurement of touch current and protective conductor current

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IEC		AS/NZS	
61000	Electromagnetic compatibility (EMC)	61000	Electromagnetic compatibility (EMC)
61000-2-2	Part 2-2: Environment—Compatibility levels for low-frequency conducted disturbances and signalling in public low-voltage power supply systems	61000.2.2	Part 2.2: Environment—Compatibility levels for low-frequency conducted disturbances and signalling in public low-voltage power supply systems
61000-3-2	Part 3-2: Limits—Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)	61000.3.2	Part 3.2: Limits—Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)
61000-3-4	Part 3-4: Limits—Limitation of emission of harmonic currents in low-voltage power supply systems for equipment with rated current greater than 16 A	61000.3.4	Part 3.4: Limits—Limitation of emission of harmonic currents in low-voltage power supply systems for equipment with rated current greater than 75 A
61000-3-12	Part 3-12: Limits—Limits for harmonic currents produced by equipment connected to public low-voltage systems with input current > 16 A and ≤ 75 A per phase	61000.3.12	Part 3.12: Limits—Limits for harmonic currents produced by equipment connected to public low-voltage systems with input current > 16 A and ≤ 75 A per phase
61000-4-30	Part 4-30: Testing and measurement techniques—Power quality measurement methods	61000.4.30	Part 4.30: Testing and measurement techniques—Power quality measurement methods
61672	Electroacoustics—Sound level meters	61672	Electroacoustics—Sound level meters
61672-1	Part 1: Specifications	61672.1	Part 1: Specifications
62040	Uninterruptible power systems (UPS)	62040	Uninterruptible power systems (UPS)
62040-2	Part 2: Electromagnetic compatibility (EMC) requirements	62040.2	Part 2: Electromagnetic compatibility (EMC) requirements

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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