

AS 62040.1.1—2003
IEC 62040-1-1:2002
IEC 62040-1-1:2002/Corr.1:2002

AS 62040.1.1

Australian Standard™

Uninterruptible power systems (UPS)

**Part 1.1: General and safety
requirements for UPS used
in operator access areas**

This Australian Standard was prepared by Committee EL-027, Power Electronics. It was approved on behalf of the Council of Standards Australia on 29 July 2003 and published on 3 October 2003.

The following are represented on Committee EL-027:

Australian Electrical and Electronic Manufacturers Association
Australian Communications Authority
Bureau of Steel Manufacturers of Australia
Electricity Supply Association of Australia
University of Wollongong
Monash University

Keeping Standards up-to-date

Standards are living documents which reflect progress in science, technology and systems. To maintain their currency, all Standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued. Standards may also be withdrawn. It is important that readers assure themselves they are using a current Standard, which should include any amendments which may have been published since the Standard was purchased.

Detailed information about Standards can be found by visiting the Standards Australia web site at www.standards.com.au and looking up the relevant Standard in the on-line catalogue.

Alternatively, the printed Catalogue provides information current at 1 January each year, and the monthly magazine, *The Global Standard*, has a full listing of revisions and amendments published each month.

We also welcome suggestions for improvement in our Standards, and especially encourage readers to notify us immediately of any apparent inaccuracies or ambiguities. Contact us via email at mail@standards.com.au, or write to the Chief Executive, Standards Australia International Ltd, GPO Box 5420, Sydney, NSW 2001.

This Standard was issued in draft form for comment as DR 03139.

Australian Standard™

Uninterruptible power systems (UPS)

Part 1.1: General and safety requirements for UPS used in operator access areas

First published as AS 62040.1.1—2003.

COPYRIGHT

© Standards Australia International

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher.

Published by Standards Australia International Ltd
GPO Box 5420, Sydney, NSW 2001, Australia

ISBN 0 7337 5476 7

PREFACE

This Standard was prepared by the Standards Australia Committee EL-027, Power Electronics.

The objective of this Standard is to provide designers, manufacturers, owners and operators with general and safety requirements for Uninterruptible Power Systems (UPS) with a low voltage a.c. output intended to be installed in operator accessible areas.

This Standard is identical with, and has been reproduced from, IEC 62040-1-1:2002, *Uninterruptible power systems (UPS), Part 1-1: General and safety requirements for UPS used in operator access areas* including Corrigendum 1 (December 2002). This Standard is to be read in conjunction with AS/NZS 60950.1 *Information technology equipment—Safety, Part 1: General requirements*.

To assist users of this Standard, the definitions for connection of the supply and insulation classes from AS/NZS 60950.1 have been added as notes to clauses 3.4 and 3.8 respectively.

This Standard is part of a series, which consists of the following:

AS

62040 Uninterruptible power systems (UPS)

62040.1.1 Part 1.1: General and safety requirements for UPS used in operator access areas (this Standard)

62040.1.2 Part 1.2: General and safety requirements for UPS used in restricted access locations

62040.2 Part 2: Electromagnetic compatibility (EMC) requirements

62040.3 Part 3: Method of specifying the performance and test requirements

The terms ‘normative’ and ‘informative’ are used 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.

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

- (a) Its number does not appear on each page of text and its identity is shown only on the cover and title page.
- (b) In the source text ‘this international standard’ should read ‘this Australia Standard’.
- (c) A full point should be substituted for a comma when referring to a decimal marker.

CONTENTS

	<i>Page</i>
1	Scope and specific applications 1
1.1	Scope 1
1.2	Specific applications 1
2	Normative references 2
3	Definitions 3
3.1	General 3
3.2	UPS electrical ratings 4
3.3	Load types 4
3.4	Connection to the supply 4
3.5	Circuits and circuit characteristics 5
3.6	Insulation 5
3.7	Equipment mobility 5
3.8	Insulation classes of UPS 5
3.9	Enclosures 5
3.10	Accessibility 5
3.11	Components 5
3.12	Power distribution 6
3.13	Flammability 6
3.14	Miscellaneous 6
3.15	Telecommunication networks 6
4	General conditions for tests 6
4.1	Operating parameters for tests 6
4.2	Loads for tests 7
4.3	Components 7
4.4	Power interfaces 7
4.5	Marking and instructions 7
4.5.1	General 7
4.5.2	Power rating 7
4.5.3	Safety instructions 8
4.5.4	Main voltage adjustment 9
4.5.5	Power outlets 9
4.5.6	Fuses 9
4.5.7	Wiring terminals 9
4.5.8	Battery terminals 9
4.5.9	Controls and indicators 9
4.5.10	Isolation of multiple power sources 9
4.5.11	IT power systems 10
4.5.12	Protection in building installation 10
4.5.13	High leakage current 10
4.5.14	Thermostats and other regulating devices 10
4.5.15	Language 10
4.5.16	Durability of markings 10
4.5.17	Removable parts 10
4.5.18	Replaceable batteries 10
4.5.19	Operator access with a tool 10

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

-
- [Looking for additional Standards? Visit Intertek Inform Infostore](#)
 - [Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation](#)
-