AS IEC 62040.2:2019
IEC 62040-2:2016 (ED. 3.0)

AS IEC 62040.2:2019

Australian STANDARD

Uninterruptible power systems (UPS)

Part 2: Electromagnetic compatibility (EMC) requirements

STANDARDS Australia

AS IEC 62040.2:2019

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Energy Networks Australia
Engineers Australia
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Uninterruptible power systems (UPS)

Part 2: Electromagnetic compatibility (EMC) requirements

Originated as AS 62040.2—2001.
Previous edition 2008.
Revised and redesignated as AS IEC 62040.2:2019.

Preface

This Standard was prepared by the Standards Australia Committee EL-027, Power Electronics, to supersede AS 62040.2—2008.

The objective of this Standard is to provide electromagnetic compatibility (EMC) type test requirements for uninterruptible power systems (UPS) intended for installation in residential, commercial, light industrial or industrial environments as applicable.

This Standard applies to movable, stationary, fixed or built-in, pluggable and permanently connected UPS that deliver AC output voltage with port voltages not exceeding 1 000 V AC or 1 500 V DC and that include an energy storage device.

The major changes in this edition are as follows:

(a) Inclusion of network port limits in Table 1, Table 2 and Annex C for consistency with other EMC Standards.

NOTE The content of Interpretation sheet 1 (IEC 62040-2:2016/ISH 1:2018) concerning application of network port limits has also been included.

(b) Change in Table 2 of the > 16 A to 100 A category C3 UPS mains terminal 30 MHz quasi-peak limit to 73 dB (uV) for consistency with other EMC Standards.

(c) Clarification in Table 4 about the performance criteria for immunity tests.

(d) Revision of some test configurations in Annex A.

This Standard is identical with, and has been reproduced from, IEC 62040-2:2016 (ED. 3.0), *Uninterruptible power systems (UPS) — Part 2: Electromagnetic compatibility (EMC) requirements*, and its Interpretation sheet 1 (2018), which has been included with the source text.

As this document has been reproduced from an International Standard, the following applies:

(i) In the source text “this part of IEC 62040” should read “this Australian Standard”.

(ii) A full point substitutes for a comma when referring to a decimal marker.

Australian or Australian/New Zealand Standards that are identical adoptions of international normative references may be used interchangeably. Refer to the online catalogue for information on specific Standards.

The terms “normative” and “informative” are used in Standards to define the application of the appendices or annexes to which they apply. A “normative” appendix or annex is an integral part of a Standard, whereas an “informative” appendix or annex is only for information and guidance.

INTERNATIONAL ELECTROTECHNICAL COMMISSION

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IEC 62040-2
Edition 3.0 2016-11

UNINTERRUPTIBLE POWER SYSTEMS (UPS) –

Part 2: Electromagnetic compatibility (EMC) requirements

INTERPRETATION SHEET 1

This interpretation sheet has been prepared by subcommittee 22H: Uninterruptible power systems (UPS), of IEC technical committee 22: Power electronic systems and equipment.

The text of this interpretation sheet is based on the following documents:

FDIS	Report on voting
22H/232/FDIS	22H/236/RVD

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

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Interpretation of 5.3.2.4, Limits at the network ports

Introduction

Sub-clause 5.3.2.4 states that the **network port** limits applicable to **UPS** of **category C1, C2** and **C3** are located in Table 1, Table 2 and Annex C.

It was not clear whether 5.3.2.4 applies to **network ports** that originate and terminate within the **enclosure port** of the **UPS** (i.e. to **network ports** connected exclusively to circuits or devices forming an integral part of the **UPS**).

Interpretation

The **network port** limits in Table 1, Table 2 and Annex C apply only to **network ports** for which connection to circuits or devices external to the **enclosure port** of the **UPS** is allowed. This includes, without limitation, connection to PSTN, ISDN, xDSL and Ethernet networks. The limits in Table 1, Table 2 and Annex C do not apply to **network ports** that originate and terminate within the **enclosure port** of the **UPS** (i.e. to **network ports** connected exclusively to circuits or devices forming an integral part of the **UPS**).