

Australian Standard™

Uninterruptible power systems (UPS)

**Part 2: Electromagnetic compatibility
(EMC) requirements**



This Australian Standard was prepared by Committee EL-027, Power Electronics. It was approved on behalf of the Council of Standards Australia on 18 January 2001 and published on 21 February 2001.

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

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PREFACE

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

The objective of this Standard is to provide manufacturers, users and regulators with requirements for electromagnetic compatibility (EMC) for uninterruptible power systems (UPS).

This Standard is identical with and has been reproduced from IEC 62040-2:1999, *Uninterruptible power systems (UPS) Part 2: Electromagnetic compatibility (EMC) requirements*.

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1 General**1.1 Scope**

This International Standard applies to single UPS units or UPS systems comprising a number of interconnected UPS and associated control/switchgear forming a single power system, intended to be installed in any operator accessible area or in separate electrical locations, connected to either industrial or public low voltage supply networks.

This product EMC standard takes precedence over all aspects of the generic standards, and no additional testing is necessary.

The requirements have been selected so as to ensure an adequate level of electromagnetic compatibility (EMC) for UPS at public and industrial locations. These levels cannot, however, cover extreme cases which may occur in any location, but with extremely low probability of occurrence.

It takes into account differing test conditions necessary to encompass the range of physical sizes and power ratings of UPS.

A UPS unit or system shall meet the relevant requirements of this standard as a stand-alone product. EMC phenomena produced by any customers' load connected to the output of the UPS equipment shall not be taken into account.

Special installation environments are not covered, nor are fault conditions of UPS taken into account.

This standard does not cover d.c. supplied electronic ballast (IEC 60924 and IEC 60925) or UPS based controlling machines.

This standard states:

- EMC requirements;
- test methods;
- minimum performance levels.