

INTERNATIONAL STANDARD

NORME INTERNATIONALE

INTERNATIONAL SPECIAL COMMITTEE ON RADIO INTERFERENCE
COMITÉ INTERNATIONAL SPÉCIAL DES PERTURBATIONS RADIOÉLECTRIQUES

**Electromagnetic compatibility – Requirements for household appliances,
electric tools and similar apparatus –
Part 2: Immunity – Product family standard**

**Compatibilité électromagnétique – Exigences relatives aux appareils
électrodomestiques, outillages électriques et appareils analogues –
Partie 2: Immunité – Norme de famille de produits**



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CONTENTS

FOREWORD.....	4
INTRODUCTION.....	6
1 Scope.....	7
2 Normative references.....	8
3 Terms, definitions and abbreviations	9
3.1 Terms and definitions	9
3.2 Abbreviations	11
4 Classification of apparatus.....	11
5 Tests.....	12
5.1 Electrostatic discharge	12
5.2 Fast transients	12
5.3 Injected currents, 0,15 MHz to 230 MHz	13
5.4 Injected currents, 0,15 MHz to 80 MHz	15
5.5 Radio frequency electromagnetic fields, 80 MHz to 1 000 MHz.....	16
5.6 Surges.....	16
5.7 Voltage dips.....	17
6 Performance criteria	17
7 Applicability of immunity tests	18
7.1 General.....	18
7.2 Application of tests for the different categories of apparatus.....	18
7.2.1 Category I.....	18
7.2.2 Category II.....	19
7.2.3 Category III.....	19
7.2.4 Category IV.....	19
8 Conditions during testing.....	19
9 Assessment of conformity	20
9.1 Single product evaluation	20
9.2 Statistical evaluation	20
9.3 In case of dispute.....	21
Annex A (informative) Guidance for permissible degradation.....	22
Bibliography	23
Figure 1 – Examples of ports.....	9
Figure 2 – Example for a test set-up for large EUTs (e. g. refrigerators) where the cable leaves the EUT on a height of more than 1 m above the floor	15
Table 1 – Enclosure port.....	12
Table 2 – Ports for signal lines and control lines.....	12
Table 3 – Input and output d.c. power ports.....	13
Table 4 – Input and output a.c. power ports.....	13
Table 5 – Ports for signal lines and control lines.....	14
Table 6 – Input and output d.c. power ports.....	14
Table 7 – Input and output a.c. power ports.....	14
Table 8 – Ports for signal lines and control lines.....	15

Table 9 – Input and output d.c. power ports 16

Table 10 – Input and output a.c. power ports 16

Table 11 – Enclosure port 16

Table 12 – Input a.c. power ports 17

Table 13 – Input a.c. power ports 17

Table A.1 – Examples of degradations 22

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INTERNATIONAL ELECTROTECHNICAL COMMISSION
INTERNATIONAL SPECIAL COMMITTEE ON RADIO INTERFERENCE

**ELECTROMAGNETIC COMPATIBILITY –
REQUIREMENTS FOR HOUSEHOLD APPLIANCES,
ELECTRIC TOOLS AND SIMILAR APPARATUS –**

Part 2: Immunity – Product family standard

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard CISPR 14-2 has been prepared by CISPR subcommittee F: Interference relating to household appliances tools, lighting equipment and similar apparatus.

This second edition cancels and replaces the first edition published in 1997, Amendment 1:2001 and Amendment 2:2008. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) 5.1: For ESD tests on contacts of plugs and sockets the note ("The 4 kV contact discharge shall be applied to conductive accessible parts. Metallic contacts, such as in battery compartments or in socket outlets, are excluded from this requirement.") saying that no test on contacts is necessary has been removed. The IEC 61000-4-2 includes a detailed

description how to deal with ESD on contacts and other surfaces. Also discharge on HCP and VCP is required by the basic standard IEC 61000-4-2.

- b) 5.3 and 5.4: The tables for tests at d.c. power ports according IEC 61000-4-6 are aligned with the generic standards and are the same for 5.3 and 5.4.
- c) 5.3 and 5.4: For EUT with single mains cable and no other cable, the test set-up as shown in Figure 2 shall be used. The set-up as described in Annex F of IEC 61000-4-6:2013 shall not be used.
- d) 5.5: The IEC 61000-4-22 has been introduced as alternative method for testing radiated immunity.
- e) 5.6: No line-to-earth surges are applied to products which do not have provision for connection to earth.

The text of this standard is based on the following documents:

FDIS	Report on voting
CISPR/F/652/FDIS	CISPR/F/657/RVD

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

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts in the CISPR 14 series, published under the general title *Electromagnetic compatibility – Requirements for household appliances, electric tools and similar apparatus*, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

INTRODUCTION

The intention of this standard is to establish uniform requirements for the electromagnetic immunity of the equipment mentioned in the scope, to fix test specifications of immunity, to refer to basic standards for methods of testing, and to standardize operating conditions, performance criteria and interpretation of results.

Keywords: Immunity, household appliances, electric apparatus, electromagnetic compatibility.

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