



National Standards Authority of Ireland

IRISH STANDARD

**I.S. EN 62040-2:2006**

ICS 17.220  
29.200

**UNINTERRUPTIBLE POWER SYSTEMS  
(UPS) -- PART 2: ELECTROMAGNETIC  
COMPATIBILITY (EMC) REQUIREMENTS  
(IEC 62040-2:2005 (EQV))**

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EUROPEAN STANDARD  
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EUROPÄISCHE NORM

**EN 62040-2**

March 2006

ICS 17.220; 29.200

Supersedes EN 50091-2:1995  
Incorporates Corrigendum November 2006

English version

**Uninterruptible power systems (UPS)  
Part 2: Electromagnetic compatibility (EMC) requirements  
(IEC 62040-2:2005)**

Alimentations sans interruption (ASI)  
Partie 2: Exigences pour la compatibilité  
électromagnétique (CEM)  
(CEI 62040-2:2005)

Unterbrechungsfreie  
Stromversorgungssysteme (USV)  
Teil 2: Anforderungen an die  
elektromagnetische Verträglichkeit (EMV)  
(IEC 62040-2:2005)

This European Standard was approved by CENELEC on 2005-10-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

**CENELEC**

European Committee for Electrotechnical Standardization  
Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

**Central Secretariat: rue de Stassart 35, B - 1050 Brussels**

## Foreword

The text of document 22H/74A/FDIS, future edition 2 of IEC 62040-2, prepared by SC 22H, Uninterruptible Power Systems (UPS), of IEC TC 22, Power electronic systems and equipment, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 62040-2 on 2005-10-01.

This European Standard supersedes EN 50091-2:1995 + corrigendum January 1998.

The following dates were fixed:

- latest date by which the EN has to be implemented  
at national level by publication of an identical  
national standard or by endorsement (dop) 2006-10-01
- latest date by which the national standards conflicting  
with the EN have to be withdrawn (dow) 2008-10-01

This European Standard was prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association and supports the essential requirements of Directive 89/336/EEC (see Annex ZZ).

Annexes ZA and ZZ have been added by CENELEC.

The contents of the corrigendum of November 2006 have been included in this copy.

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## Endorsement notice

The text of the International Standard IEC 62040-2:2005 was approved by CENELEC as a European Standard without any modification.

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## Annex ZA (normative)

### Normative references to international publications with their corresponding European publications

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60050-161	1990	International Electrotechnical Vocabulary (IEV) Chapter 161: Electromagnetic compatibility	-	-
IEC 61000-2-2	2002	Electromagnetic compatibility (EMC) Part 2-2: Environment - Compatibility levels for low-frequency conducted disturbances and signalling in public low-voltage power supply systems	EN 61000-2-2	2002
IEC 61000-3-2 (mod)	2000	Electromagnetic compatibility (EMC) Part 3-2: Limits - Limits for harmonic current emissions (equipment input current up to and including 16 A per phase)	EN 61000-3-2 <sup>1)</sup>	2000
IEC 61000-4-1	2000	Electromagnetic compatibility (EMC) Part 4-1: Testing and measurement techniques - Overview of IEC 61000-4 series	EN 61000-4-1	2000
IEC 61000-4-2	1995	Electromagnetic compatibility (EMC) Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test	EN 61000-4-2	1995
IEC 61000-4-3	2002	Electromagnetic compatibility (EMC) Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test	EN 61000-4-3 <sup>2)</sup>	2002
IEC 61000-4-4	2004	Electromagnetic compatibility (EMC) Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test	EN 61000-4-4	2004
IEC 61000-4-5	1995	Electromagnetic compatibility (EMC) Part 4-5: Testing and measurement techniques - Surge immunity test	EN 61000-4-5 <sup>3)</sup>	1995
IEC 61000-4-6	2003	Electromagnetic compatibility (EMC) Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields	-	-

<sup>1)</sup> EN 61000-3-2 is superseded by EN 61000-3-2:2006, which is based on IEC 61000-3-2:2005.

<sup>2)</sup> EN 61000-4-3 is superseded by EN 61000-4-3:2006, which is based on IEC 61000-4-3:2006.

<sup>3)</sup> EN 61000-4-5 is superseded by EN 61000-4-5:2006, which is based on IEC 61000-4-5:2005.

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<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61000-4-8	1993	Electromagnetic compatibility (EMC) Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test	-	-
IEC 62040-3 (mod)	1999	Uninterruptible power systems (UPS) Part 3: Method of specifying the performance and test requirements	EN 62040-3	2001
CISPR 16-1-1	2003	Specification for radio disturbance and immunity measuring apparatus and methods Part 1-1: Radio disturbance and immunity measuring apparatus - Measuring apparatus	EN 55016-1-1	2004
CISPR 16-1-2	2003	Specification for radio disturbance and immunity measuring apparatus and methods Part 1-2: Radio disturbance and immunity measuring apparatus - Ancillary equipment - Conducted disturbances	EN 55016-1-2	2004
CISPR 22 (mod)	2005	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement	EN 55022	2006

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