



National Standards Authority of Ireland

STANDARD

**I.S. EN 62040-1-1:2004**

ICS 29.200

**UNINTERRUPTIBLE POWER SYSTEMS (UPS)  
PART 1-1: GENERAL AND SAFETY  
REQUIREMENTS FOR UPS USED IN  
OPERATOR ACCESS AREAS (IEC  
62040-1-1:2002 + CORRIGENDA 2002 AND  
2004)**

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EUROPEAN STANDARD

**EN 62040-1-1**

NORME EUROPÉENNE

EUROPÄISCHE NORM

January 2003

ICS 29.200

Supersedes EN 50091-1-1:1996  
Incorporates Corrigendum August 2004

English version

**Uninterruptible power systems (UPS)  
Part 1-1: General and safety requirements for UPS  
used in operator access areas  
(IEC 62040-1-1:2002 + corrigenda 2002 and 2004)**

Alimentations sans interruption (ASI)  
Partie 1-1: Prescriptions générales  
et règles de sécurité pour les ASI  
utilisées dans des locaux  
accessibles aux opérateurs  
(CEI 62040-1-1:2002 + corrigenda 2002  
et 2004)

Unterbrechungsfreie  
Stromversorgungssysteme (USV)  
Teil 1-1: Allgemeine Anforderungen  
und Sicherheitsanforderungen  
an USV außerhalb abgeschlossener  
Betriebsräume  
(IEC 62040-1-1:2002 + Corrigenda 2002  
und 2004)

This European Standard was approved by CENELEC on 2002-11-01. 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, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and 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/22/FDIS, future edition 1 of IEC 62040-1-1, 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 62040-1-1 on 2002-11-01.

This European Standard supersedes EN 50091-1-1:1996.

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) 2003-08-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2005-11-01

Annexes designated "normative" are part of the body of the standard.

Annexes designated "informative" are given for information only.

In this standard, annexes L, M, N, ZA and ZB are normative and annexes H and X are informative.

Annexes ZA and ZB have been added by CENELEC.

In this standard, the following print types are used:

- Requirements proper and normative annexes: in roman type;
- *Compliance statements and test specifications: in italic type;*
- Notes and other informative matter: in smaller roman type;
- Normative conditions within tables: in smaller roman type;
- Terms that are defined in clause 3: **bold**.

The contents of the corrigendum of August 2004 have been included in this copy.

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## Endorsement notice

The text of the International Standard IEC 62040-1-1:2002 and its corrigenda December 2002 and February 2004 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

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

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 60417	DB	Graphical symbols for use on equipment	– <sup>1)</sup>	–
IEC 60529	1989	Degrees of protection provided by enclosures (IP Code)	EN 60529 + corr. May	1991 1993
IEC 60617	DB	Graphical symbols for diagrams	– <sup>1)</sup>	–
IEC 60664	Series	Insulation coordination for equipment within low-voltage systems	EN 60664	Series
IEC/TR 60755 A1 A2	1983 1988 1992	General requirements for residual current operated protective devices	-	-
IEC 60950-1 (mod)	2001	Information technology equipment - Safety Part 1: General requirements	EN 60950-1	2001
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 61008-1	1996 <sup>2)</sup>	Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs) Part 1: General rules	-	-

<sup>1)</sup> The symbols collated in this publication are adopted unchanged in Europe.

<sup>2)</sup> The European Standard EN 61008-1:1994 (IEC 61008-1:1990 + A1:1992, mod.) + corrigendum December 1997 + A2:1995 (IEC/A2:1995) + A11:1995 + A12:1998 + corrigendum April 1998 + A13:1998 + A14:1998 applies.

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<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61009-1	1996 <sup>3)</sup>	Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBO's) Part 1: General rules	-	-
IEC 62040-1-2 + corr. December + corr. February	2002 2002 2004	Uninterruptible power systems (UPS) Part 1-2: General and safety requirements for UPS used in restricted access locations	EN 62040-1-2 + corr. August	2003 2004
IEC 62040-2	1999	Part 2: Electromagnetic compatibility (EMC) requirements	-	-
IEC 62040-3 (mod)	1999	Part 3: Method of specifying the performance and test requirements	EN 62040-3	2001

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<sup>3)</sup> The European Standard EN 61009-1:1994 (IEC 61009-1:1991, mod.) + corrigendum December 1997 + A1:1995 (IEC/A1:1995) + A11:1995 + A2:1998 + A13:1998 + corrigendum April 1998 + A14:1998 + A15:1998 + A17:1998 applies.

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