



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.

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.

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 | — ¹⁾ | — |
| IEC 60529 | 1989 | Degrees of protection provided by enclosures (IP Code) | EN 60529 + corr. May | 1991 1993 |
| IEC 60617 | DB | Graphical symbols for diagrams | — ¹⁾ | — |
| 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 ²⁾ | Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs) Part 1: General rules | - | - |

¹⁾ The symbols collated in this publication are adopted unchanged in Europe.

²⁾ 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.

EN 62040-1-1:2003

- 4 -

| <u>Publication</u> | <u>Year</u> | <u>Title</u> | <u>EN/HD</u> | <u>Year</u> |
|---|----------------------|--|--------------------------------|--------------|
| IEC 61009-1 | 1996 ³⁾ | 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 |

³⁾ 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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