



National Standards Authority of Ireland

STANDARD

I.S. EN 62040-1-2:2004

ICS 29.200

**UNINTERRUPTIBLE POWER SYSTEMS (UPS)
PART 1-2: GENERAL AND SAFETY
REQUIREMENTS FOR UPS USED IN
RESTRICTED ACCESS LOCATIONS (IEC
62040-1-2:2002 + CORRIGENDA 2002 AND
2004)**

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EUROPEAN STANDARD

EN 62040-1-2

NORME EUROPÉENNE

EUROPÄISCHE NORM

January 2003

ICS 29.200

Supersedes EN 50091-1-2:1998
Incorporates Corrigendum August 2004

English version

Uninterruptible power systems (UPS)
Part 1-2: General and safety requirements for UPS
used in restricted access locations
(IEC 62040-1-2:2002 + corrigenda 2002 and 2004)

Alimentations sans interruption (ASI)
Partie 1-2: Prescriptions générales
et règles de sécurité pour les ASI
utilisées dans des locaux d'accès restreint
(CEI 62040-1-2:2002 + corrigenda 2002
et 2004)

Unterbrechungsfreie
Stromversorgungssysteme (USV)
Teil 1-2: Allgemeine Anforderungen
und Sicherheitsanforderungen an USV
in abgeschlossenen Betriebsräumen
(IEC 62040-1-2:2002 + 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/23FDIS, future edition 1 of IEC 62040-1-2 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 62040-1-2 on 2002-11-01.

This European Standard supersedes EN 50091-1-2:1998 + corrigendum August 1999.

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, P, ZA and ZB are normative and annex H is 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 62040-1-2:2002 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 60364 (mod) | Series | Electrical installations of buildings | HD 384 HD 60364 | Series Series |
| IEC 60364-4-41 | 2001 | Part 4-41: Protection for safety - Protection against electric shock | - | - |
| IEC 60364-4-482 | 1982 | Part 4: Protection for safety Chapter 48: Choice of protective measures as a function of external influences Section 482: Protection against fire where particular risks or danger exist | - | - |
| IEC 60417 | DB | Graphical symbols for use on equipment | — ¹⁾ | — |
| IEC 60439-1 | 1999 | Low-voltage switchgear and controlgear assemblies Part 1: Type-tested and partially type- tested assemblies | EN 60439-1 | 1999 |
| IEC 60445 | 1999 | Basic and safety principles for man- machine interface, marking and identification - Identification of equipment terminals and of terminations of certain designated conductors, including general rules for an alphanumeric system | EN 60445 | 2000 |
| 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 |

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

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| <u>Publication</u> | <u>Year</u> | <u>Title</u> | <u>EN/HD</u> | <u>Year</u> |
|---|----------------------|---|--------------------------------|--------------|
| 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 61140 | 2001 | Protection against electric shock - Common aspects for installation and equipment | EN 61140 | 2002 |
| IEC 62040-1-1 + corr. December + corr. February | 2002 2002 2004 | Uninterruptible power systems (UPS) Part 1-1: General and safety requirements for UPS used in operator access areas | EN 62040-1-1 + 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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