



National Standards Authority of Ireland

IRISH STANDARD

**I.S. EN 61000-2-12:2003**

ICS 33.100.01

**ELECTROMAGNETIC COMPATIBILITY (EMC)**  
**PART 2-12: ENVIRONMENT -**  
**COMPATIBILITY LEVELS FOR**  
**LOW-FREQUENCY CONDUCTED**  
**DISTURBANCES AND SIGNALLING IN PUBLIC**  
**MEDIUM-VOLTAGE POWER SUPPLY**  
**SYSTEMS**  
**(IEC 61000-2-12:2003)**

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EUROPEAN STANDARD

**EN 61000-2-12**

NORME EUROPÉENNE

EUROPÄISCHE NORM

July 2003

ICS 33.100.01

English version

**Electromagnetic compatibility (EMC)  
Part 2-12 : Environment –  
Compatibility levels for low-frequency conducted disturbances and  
signalling in public medium-voltage power supply systems  
(IEC 61000-2-12:2003)**

Compatibilité électromagnétique (CEM)  
Partie 2-12: Environnement –  
Niveaux de compatibilité pour  
les perturbations conduites à basse  
fréquence et la transmission des signaux  
sur les réseaux publics d'alimentation  
moyenne tension  
(CEI 61000-2-12:2003)

Elektromagnetische Verträglichkeit  
Teil 2-12: Umgebungsbedingungen -  
Verträglichkeitspegel für niederfrequente  
leitungsgeführte Störgrößen und  
Signalübertragung in öffentlichen  
Mittelspannungsnetzen  
(IEC 61000-2-12:2003)

This European Standard was approved by CENELEC on 2003-06-01. 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 77A/404/FDIS, future edition 1 of IEC 61000-2-12, prepared by SC 77A, Low frequency phenomena, of IEC TC 77, Electromagnetic compatibility, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61000-2-12 on 2003-06-01.

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) 2004-03-01
- latest date by which the national standards conflicting  
with the EN have to be withdrawn (dow) 2006-06-01

Annexes designated "normative" are part of the body of the standard.  
Annexes designated "informative" are given for information only.  
In this standard, annex ZA is normative and annexes A and B are informative.  
Annex ZA has been added by CENELEC.

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## Endorsement notice

The text of the International Standard IEC 61000-2-12:2003 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60038	NOTE	Harmonized as HD 472 S1:1989 (modified).
IEC 60868	NOTE	Harmonized as HD 498 S1:1987 (not modified).
IEC 60868-0	NOTE	Harmonized as EN 60868-0:1993 (not modified).
IEC 61000-3-2	NOTE	Harmonized as EN 61000-3-2:2000 (modified).
IEC 61000-3-3	NOTE	Harmonized as EN 61000-3-3:1995 (not modified).

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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 60071	Series	Insulation co-ordination	EN 60071	Series
IEC 60071-1	- <sup>1)</sup>	Insulation co-ordination Part 1: Definitions, principles and rules	EN 60071-1	1995 <sup>2)</sup>
IEC 61000-2-2	- <sup>1)</sup>	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 <sup>2)</sup>
IEC 61000-2-4	- <sup>1)</sup>	Part 2-4: Environment - Compatibility levels in industrial plants for low- frequency conducted disturbances	EN 61000-2-4	2002 <sup>2)</sup>
IEC 61000-4-7	- <sup>1)</sup>	Part 4-7: Testing and measurement techniques - General guide on harmonics and interharmonics measurements and instrumentation, for power supply systems and equipment connected thereto	EN 61000-4-7	2002 <sup>2)</sup>

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<sup>1)</sup> Undated reference.

<sup>2)</sup> Valid edition at date of issue.



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