



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 60146-2:2003

ICS 31.080.99

**SEMICONDUCTOR CONVERTERS - PART 2:
SELF-COMMUTATED SEMICONDUCTOR
CONVERTERS INCLUDING DIRECT D.C.
CONVERTERS
(IEC 60146-2:1999)**

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English version

Semiconductor converters
Part 2: Self-commutated semiconductor converters
including direct d.c. converters
(IEC 60146-2:1999)

Convertisseurs à semiconducteurs
Partie 2: Convertisseurs autocommutés
à semiconducteurs y compris les
convertisseurs à courant continu directs
(CEI 60146-2:1999)

Halbleiter-Stromrichter
Teil 2: Selbstgeführte
Halbleiter-Stromrichter einschließlich
Gleichstrom-Direktumrichter
(IEC 60146-2:1999)

This European Standard was approved by CENELEC on 2000-01-01. 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, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, 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 22B/126/FDIS, future edition 2 of IEC 60146-2, prepared by SC 22B, Semiconductor converters, of IEC TC 22, Power electronics, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60146-2 on 2000-01-01.

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) 2000-10-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2003-01-01

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 annex A is informative.
Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 60146-2:1999 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 60050-101	1998	International Electrotechnical Vocabulary (IEV) Part 101: Mathematics	-	-
IEC 60050-161	1990	Chapter 161: Electromagnetic compatibility	-	-
IEC 60050-551	1998	Part 551: Power electronics	-	-
IEC 60146-1-1	1991	Semiconductor convertors - General requirements and line commutated convertors Part 1-1: Specifications of basic requirements	EN 60146-1-1	1993
IEC 60146-1-2	1991	Semiconductor convertors - General requirements and line commutated convertors Part 1-2: Application guide	-	-
IEC 60664-1 (mod)	1992	Insulation coordination for equipment within low-voltage systems Part 1: Principles, requirements and tests	HD 625.1 S1 + corr. November 1996	1996
IEC 60747-1	1983	Semiconductor devices - Discrete devices Part 1: General	-	-
A3	1996		-	-
IEC 61000-2-2 (mod)	1990	Electromagnetic compatibility (EMC) Part 2: Environment Section 2: Compatibility levels for low-frequency conducted disturbances and signalling in public low-voltage power supply systems	ENV 61000-2-2	1993

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61000-2-4 + corr. August	1994 1994	Section 4: Compatibility levels in industrial plants for low-frequency conducted disturbances	EN 61000-2-4	1994
IEC 61000-4	series	Part 4: Testing and measurement techniques	EN 61000-4	series
IEC 61010-1 (mod)	1990	Safety requirements for electrical equipment for measurement, control and laboratory use Part 1: General requirements		
+ A1 (mod)	1992		EN 61010-1	1993

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