

SLOVENSKI STANDARD
SIST EN 60146-1-1:2001/A1:2001
01-junij-2001

Semiconductor convertors - General requirements and line commutated convertors - Part 1-1: Specifications of basic requirements - Amendment A1 (IEC 60146-1-1:1991/A1:1996)

Semiconductor convertors - General requirements and line commutated convertors -- Part 1-1: Specifications of basic requirements

Halbleiter-Stromrichter - Allgemeine Anforderungen und netzgeführte Stromrichter -- Teil 1-1: Festlegung der Grundanforderungen

Convertisseurs à semiconducteurs - Spécifications communes et convertisseurs commutés par le réseau -- Partie 1-1: Spécifications des clauses techniques de base

Ta slovenski standard je istoveten z: EN 60146-1-1:1993/A1:1997

ICS:

29.200	W{ ^} } ã ä Æ U; ^ c [] } ã Æ Ù c ã ä ä ã [Á ^ \ d ä] } ã ã ã ã	Rectifiers. Convertors. Stabilized power supply
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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 60146-1-1/A1

December 1997

UDC 621.314.57/.63:621.382:620.1
ICS 29.200

Descriptors: Electronics, convertor, semiconductor convertor, electronic switch, performance requirement, specification, test

English version

**Semiconductor convertors - General requirements and
line commutated convertors
Part 1-1: Specifications of basic requirements
(IEC 60146-1-1:1991/A1:1996)**

Convertisseurs à semiconducteurs
Spécifications communes et
convertisseurs commutés par le réseau
Partie 1-1: Spécifications des clauses
techniques de base
(CEI 60146-1-1:1991/A1:1996)

Halbleiter-Stromrichter
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This amendment A1 modifies the European Standard EN 60146-1-1:1993; it was approved by CENELEC on 1997-10-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment 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 amendment 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 amendment 1:1996 to the International Standard IEC 60146-1-1:1991, prepared by SC 22B, Semiconductor converters, of IEC TC 22, Power electronics, was submitted to the formal vote and was approved by CENELEC as amendment A1 to EN 60146-1-1:1993 on 1997-10-01 without any modification.

The following dates were fixed:

- latest date by which the amendment has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 1998-09-01
- latest date by which the national standards conflicting with the amendment have to be withdrawn (dow) 1998-09-01

Endorsement notice

The text of amendment 1:1996 to the International Standard IEC 60146-1-1:1991 was approved by CENELEC as an amendment to the European Standard without any modification.

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NORME
INTERNATIONALE
INTERNATIONAL
STANDARD

CEI
IEC
146-1-1

1991

AMENDEMENT 1
AMENDMENT 1

1996-07

Amendement 1

Convertisseurs à semiconducteurs

**Spécifications communes et
convertisseurs commutés par le réseau**

Partie 1-1:

Spécifications des clauses techniques de base

[SIST EN 60146-1-1:2001/A1:2001](https://standards.iteh.ai/catalog/standards/sist/4168538a-c72e-4b50-8775-a52155ca7ccb/sist-en-60146-1-1-2001-a1-2001)

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Amendment 1

Semiconductor convertors

**General requirements and
line commutated convertors**

Part 1-1:

Specifications of basic requirements

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FOREWORD

This amendment has been prepared by subcommittee 22B: Semiconductor converters, of IEC technical committee 22: Power electronics.

The text of this amendment is based on the following documents:

FDIS	Report on voting
22B/97/FDIS	22B/98/RVD

Full information on the voting for the approval of this amendment can be found in the report on voting indicated in the above table.

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2.2.2.1 Storage and transport temperatures

Replace the existing text of this subclause by the following:

	Minimum	Maximum
Storage and transport	-25 °C	+55 °C

These limits apply with cooling liquid removed.

NOTE – If storage at low temperature may occur, precautions should be taken to avoid condensation of moisture in the apparatus to prevent the risk of damage by freezing of this moisture.

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2.5.2 AC voltage

Amend the text of this subclause as follows:

Variation	Immunity class			Possible consequence ¹⁾
	A	B	C	
a) Steady-state (%)	±10	±10	+10 -5	F
b) Short time (0,5 to 30 cycles)				
Rectifier operation only, up to rated values I_{dN} and U_{dN} (%)	±15	+15 -10	+15 -10	T
Inverter operation, up to rated values I_{dN} and U_{dN} (%)	±15	+15 -10	+15 -7,5	T
NOTES				
1 A decrease in frequency is assumed not to coincide with an increase in a.c. line voltage and vice versa.				
2 For overload conditions other limits may be specified separately.				
3 Within certain limits to be specified, the possible consequence T may be replaced by F, in particular if, by a requirement to be inserted in the specification, the purchaser requires the use of special control arrangements.				
4 The short time variations are not expected to occur more frequently than once every 2 h.				
1) See 1.5.32 for definitions.				