

SLOVENSKI STANDARD SIST EN 61204:1999

01-julij-1999

Low-voltage power supply devices, d.c. output - Performance characteristics and safety requirements (IEC 61204:1993)

Low-voltage power supply devices, d.c. output - Performance characteristics

Stromversorgungsgeräte für Niederspannung mit Gleichstromausgang - Eigenschaften

Dispositifs d'alimentation à basse tension à sortie en courant continu - Caractéristiques de fonctionnement (standards.iteh.ai)

Ta slovenski standard je istoveten z EN 61204:1995 https://standards.iteli.av.catalog/standards.sis/31731be9-516d-4d88-a28f-

f24b78807a00/sist-en-61204-1999

ICS:

29.160.40 Električni agregati Generating sets

29.200 Usmerniki. Pretvorniki. Rectifiers. Convertors. Stabilizirano električno Stabilized power supply

napajanje

SIST EN 61204:1999 en

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN 61204:1999

https://standards.iteh.ai/catalog/standards/sist/3175fbe9-b16d-4d88-a28f-f24b78807a00/sist-en-61204-1999

FUROPEAN STANDARD

FN 61204

NORME EUROPÉENNE

FUROPÄISCHE NORM

January 1995

ICS 29.160.40

Descriptors: Electrical power supply, low voltage, performance evaluation, safety, overvoltage protection, overcurrent protection,

English version

Low-voltage power supply devices d.c. output Performance characteristics and safety requirements

(IEC 1204:1993, modified)

Dispositifs d'alimentation à basse tension, à sortie en courant continu Caractéristiques de fonctionnement et prescriptions de sécurité (CEI 1204:1993, modifiée)

Stromversorgungsgeräte für Niederspannung mit Gleichstromausgang Eigenschaften und Sicherheitsanforderungen (IEC 1204 993, modifiziert)

This European Standard was approved by CENELEC on 1994-12-06. 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, 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 the International Standard IEC 1204:1993, prepared by SC 22E, Stabilized power supplies, of IEC TC 22, Power electronics, together with common modifications prepared by CENELEC BTTF 64-2, was submitted to the formal vote and was approved by CENELEC as EN 61204 on 1994-12-06.

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
- latest date by which the national standards conflicting with the EN have to be withdrawn

For products which have complied with the relevant national standard before 1995-12-01, as shown by the manufacturer or by a certification body, this previous standard may continue to apply for production until 2000-12-01.

(60p) = 995-12-01

(dow) 1995-12-01

Annexes designated "normative" are part of the body of the standard. In this standard, annexes A, B, C, D and ZA are normative. Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 1204:1993 was approved by CENELEC as a European Standard with agreed common modifications as given below.

COMMON MODIFICATIONS

1.1 Scope and object

Replace the second paragraph by:

"This standard is intended to cover all types of a.c. or d.c. driven power supply with any number of outputs, especially in case of unknown final application.

When power supplies are developed as components of an equipment covered by specific product standards, these standards apply; if the performance characteristics of the power supplies are not sufficiently covered by the product standards, additional specifications taken out of this standard shall be used."

In the third paragraph, replace "It permits" by "This standard permits".

3.4 Source voltage and frequency

Add after the first paragraph:

"The manufacturer and/or user shall state whether automatic voltage selection is necessary."

Add the following values for "Frequency range":

- "C 49 Hz to 51 Hz
- D 59 Hz to 61 Hz".

ANNEX 7A (normative)

OTHER INTERNATIONAL PUBLICATIONS QUOTED IN THIS STANDARD WITH THE REFERENCES OF THE RELEVANT 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 publication referred to applies.

NOTE: When the international publication has been modified by CENELEC common modifications, indicated by (mod), the relevant ENCHD applies.

IEC Publication	Date	Title IEC standard voltages*	EN/	ARD	Date
38 (mod)	1983	IEC standard voltages*	BHD	472 51	1989
68-2-1	1990		EN	60068-2-1	1993
68-2-2	1974	Test B: Dry heat	ΕN	60068-2-2*	1987
68-2-3	1969	Test Ca: Damp heat, steady state	HD	323.2.3 S2*	1987
68-2-6	1982	Test Fc and guidance: Vibration (sinusoidal)	HD	323.2.6 S2*	1988
68-2-27	1987	Test Ea and guidance	EN	60068-2-27	1993
68-2 - 29	1987	Test Eb and guidance: Bump	EN	60068-2-29*	1993
478-1	1974	Stabilized power supplies, d.c. output Part 1: Terms and definitions	-		**************************************
478-2	1986	Part 2: Rating and performance	-		-
478-3	1989	Part 3: Reference levels and measurement of conducted electromagnetic interference (EMI)	-		-
478-4	1976	Part 4: Tests other than radio-frequency interference			-
478-5	1993	Part 5: Measurement of the magnetic component of the reactive near field	-		-
651	1979	Sound level meters	EN	60651	1994

^{*} The title of HD 472 S1 is: Nominal voltages for low voltage public electricity systems

^{*} EN 60068-2-2 includes supplement A:1976 to IEC 68-2-2

^{*} HD 323.2.3 S2 includes A1:1984 to IEC 68-2-3

^{*} HD 323.2.6 S2 includes A1:1983 + A2:1985 to IEC 68-2-6

^{*} EN 60068-2-29 includes a corrigendum to IEC 68-2-29

IEC Publication	Date	Title	EN/HD	Date
664-1 (mod)	1992	Insulation coordination for equipment within low-voltage systems, Part 1: Principles, requirements and tests	-	-
721-3-1	1987	Classification of environmental conditions - Part 3: Classification of groups of environmental parameters and their severities - Storage	EN 60721-3-1*	1993
721-3-2	1985	Transportation 24678807 Electromagnetic compatibility for	EN 60721-3-2*	1993
801-4	1988	Electromagnetic compatibility for industrial-process measurement and control equipment - Part 4: Electrical fast transient/burst requirements	NDARI ndards.	-
950 (mod)	1991	Safety of information technology equipment, including electrical business equipment	EN 60950	1992
Other public		id-4d8	quipment V	
MIL-HDBK-21	7E:1974	- Reliability prediction of electronic e	quipment	

^{*} EN 60721-3-1 inloudes A1:1991 to IEC 721-3-1 * EN 60721-3-2 includes A1:1991 to IEC 721-3-2

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NORME INTERNATIONALE INTERNATIONAL STANDARD

CEI IEC 1204

Première édition First edition 1993-02

Dispositifs d'alimentation à basse tension, à sortie en courant continu – Caractéristiques de fonctionnement et prescriptions de sécurité

iTeh STANDARD PREVIEW

Low-voltage power supply devices, d.c. output – Performance characteristics and https://standards.itels.ai/catalog/standards/sist/3175/be9-b16d-4d88-a28fsafety, requirements

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Commission Electrotechnique Internationale International Electrotechnical Commission Международная Электротехническая Комиссия

CODE PRIX
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INTERNATIONAL ELECTROTECHNICAL COMMISSION

LOW-VOLTAGE POWER SUPPLY DEVICES, D.C. OUTPUT – PERFORMANCE CHARACTERISTICS AND SAFETY REQUIREMENTS

FOREWORD

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the IEC is to promote international cooperation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, the IEC publishes International Standards. Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. The IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of the IEC on technical matters, prepared by technical committees on which all the National Committees having a special interest therein are represented, express, as nearly as possible, an international consensus of opinion on the subjects dealt with.
- 3) They have the form of recommendations for international use published in the form of standards, technical reports or guides and they are accepted by the National Committees in that sense.
- 4) In order to promote international unification, IEC National Committees undertake to apply IEC International Standards transparently to the maximum extent possible in their national and regional standards. Any divergence between the IEC Standard and the corresponding national or regional standard shall be clearly indicated in the latter.

https://standards.iteh.ai/catalog/standards/sist/3175fbe9-b16d-4d88-a28f-

This International Standard IEC 1204 has been prepared by sub-committee 22E: Stabilized power supplies, of IEC technical committee 22: Power electronics.

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

DIS	Report on Voting
22E(CO)24	22E(CO)26

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

Annexes A to D form an integral part of this standard.