SLOVENSKI STANDARD
SIST EN 61204:1999/A1:2002

01-marec-2002

Low-voltage power supply devices, d.c. output – Performance characteristics – Amendment 1 (IEC 61204:1993/A1:2001)

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

Ta slovenski standard je istoveten z: **EN 61204:1995/A1:2001**

ICS:

29.200	Usmerniki. Pretvorniki. Stabilizirano elektriļno napajanje	Rectifiers. Convertors. Stabilized power supply

SIST EN 61204:1999/A1:2002 **en**

EUROPEAN STANDARD **EN 61204/A1**

NORME EUROPÉENNE

EUROPÄISCHE NORM May 2001

ICS 29.200

English version

Low-voltage power supply devices, d.c. output - Performance characteristics
(IEC 61204:1993/A1:2001)

Dispositifs d'alimentation à basse tension à sortie en courant continu - Caractéristiques de fonctionnement (CEI 61204:1993/A1:2001)

Stromversorgungsgeräte für Niederspannung mit Gleichstromausgang - Eigenschaften (IEC 61204:1993/A1:2001)

This amendment A1 modifies the European Standard EN 61204:1995; it was approved by CENELEC on 2001-03-01. 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

Ref. No. EN 61204:1995/A1:2001 E

Foreword

The text of document 22E/77/FDIS, future amendment 1 to IEC 61204:1993, prepared by SC 22E, Stabilized power supplies, of IEC TC 22, Power electronics, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as amendment A1 to EN 61204:1995 on 2001-03-01.

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) 2001-12-01
- latest date by which the national standards conflicting with the amendment have to be withdrawn (dow) 2004-03-01

Endorsement notice

The text of amendment 1:2001 to the International Standard IEC 61204:1993 was approved by CENELEC as an amendment to the European Standard without any modification.

NORME INTERNATIONALE

INTERNATIONAL STANDARD

CEI
IEC
61204

1993

AMENDEMENT 1
AMENDMENT 1
2001-01

Amendement 1

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

Amendment 1

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

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FOREWORD

This amendment has been prepared by subcommittee 22E: Stabilized power supplies, of IEC technical committee 22: Power electronics.

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

FDIS	Report on voting
22E/77/FDIS	22E/80/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.

_____

Replace the title of this standard on the cover page, the title page and on pages 7 and 11 as follows:

LOW-VOLTAGE POWER SUPPLY DEVICES, DC OUTPUT – PERFORMANCE CHARACTERISTICS

Page 11

1.1 Scope and object

Replace the second paragraph by the following:

This standard is intended to be used for all types of a.c. or d.c. driver power supplies with any number of outputs, specially produced for an unknown final application.

In the case where power supplies are developed as a component of equipment covered by specific product standards, these standards apply; the additional application of IEC 61204 may be useful as an option, especially if the performance characteristics are not sufficiently covered by the product standard.

Page 21

3.4 Source voltage and frequency

Add, after the first paragraph, the following new text:

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

Add to the paragraph "Frequency range" *the following new values:*

C 45 Hz to 55 Hz

D 55 Hz to 65 Hz

E 49 Hz to 51 Hz

F 59 Hz to 61 Hz

Page 27

3.10 Periodic and random deviation

Replace item c) as follows:

c) total, including spikes (the bandwidth of the measuring equipment shall be stated).

Page 33

3.18 Output overcurrent protection

Add the following new item E:

E Inhibit and retry mode

Page 35

Replace the existing title of clause 4 by the following new title:

4 Requirements for protective devices

Pages 35 and 37

Delete subclauses 4.1 up to and including 4.6.

Delete subclause 4.7, renumber subclause 4.7.1 as 4.1 and subclause 4.7.2 as 4.2.

Page 37

5 Interference requirements

Replace the existing title of this clause by the following new title:

5 Acoustic noise requirements

Delete the title of subclause 5.1 and delete subclauses 5.2, 5.3 and 5.4.

Page 41

7.1 General

Replace the text of this subclause by the following new text:

In addition to confirming that "the power supply withstands the tests specified in clauses 3 to 6", the manufacturer shall confirm that the unit, if subjected to the tests in 7.2, under the specified operating conditions, after these tests still complies with 3.4 to 3.10 and with clause 4.

Page 43

7.2 Environmental tests

Add the following new text:

The manufacturer (user) shall confirm (specify) the IEC 60068 test to be performed with its exact type reference (for example, Ad, Ea, Fc, etc.) and level of severity. The manufacturer shall also confirm that the unit withstands the specified tests.

7.2.1 Cold

Replace the existing text by the following new text:

The unit, in operation, shall be tested according to IEC 60068-2-1.

7.2.2 Dry heat

Replace the existing text by the following new text:

The unit, in operation, shall be tested according to IEC 60068-2-2.

7.2.3 Damp heat

Replace the existing text by the following new text:

The unit, in operation, shall be tested according to IEC 60068-2-3.

7.2.4 Shock

Replace the existing text by the following new text:

The unit, not in operation, shall be tested according to IEC 60068-2-27.

7.2.5 Bump

Replace the existing text by the following new text:

The unit, not in operation, shall be tested according to IEC 60068-2-29.

7.2.6 Vibration

Replace the existing text by the following new text:

The unit, not in operation, shall be tested according to IEC 60068-2-6.