

Safety of power transformers, power supply units and similar —

Part 2.7: Particular requirements for transformers for toys

The European Standard EN 61558-2-7:1997, with the incorporation of amendment A11:2002, has the status of a British Standard

ICS 29.180

National foreword

This British Standard is the English language version of EN 61558-2-7:1997, including amendment A11:2002. It was derived by CENELEC from IEC 61558-2-7:1997.

The BS EN 61558 series of standards will ultimately supersede BS 3535-1, dual numbered as BS EN 60742:1996, and BS 3535-2. Until that time arrives, these latter standards are only to be used for equipment not covered by the BS EN 61558 series.

The CENELEC common modifications have been implemented at the appropriate places in the text. The start and finish of each common modification is indicated in the text by tags [C] [C]. Where a common modification has been introduced by amendment, the tags carry the number of the amendment. For example, the common modifications introduced by CENELEC amendment A11 are indicated by [C11] [C11].

From 1 January 1997, all IEC publications have the number 60000 added to the old number. For instance, IEC 27-1 has been renumbered as IEC 60027-1. For a period of time during the change over from one numbering system to the other, publications may contain identifiers from both systems.

The UK participation in its preparation was entrusted to Technical Committee PEL/96, Small transformers, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

A list of organizations represented on this committee can be obtained on request to its secretary.

Cross-references

The British Standards which implement international or European publications referred to in this document may be found in the BSI Catalogue under the section entitled “International Standards Correspondence Index”, or by using the “Search” facility of the *BSI Electronic Catalogue* or of British Standards Online.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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Summary of pages

This document comprises a front cover, an inside front cover, the EN title page, pages 2 to 12, an inside back cover and a back cover.

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Amendments issued since publication

Amd. No.	Date	Comments
10143	August 1998	See national foreword
14231	4 April 2003	See national foreword
15387 Corrigendum No. 1	13 October 2004	Missing Figure 101 inserted

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English version

Safety of power transformers, power supply units and similar Part 2-7: Particular requirements for transformers for toys (includes amendment A11:2002)

(IEC 61558-2-7:1997, modified)

Sécurité des transformateurs, blocs d'alimentation et analogues

Partie 2-7: Règles particulières pour les transformateurs pour jouets

(inclut l'amendement A11:2002)

(CEI 61558-2-7:1997, modifiée)

Sicherheit von Transformatoren, Netzgeräten und dergleichen

Teil 2: Besondere Anforderungen an Transformatoren für Spielzeuge

(enthält Änderung A11:2002)

(IEC 61558-2-7:1997, modifiziert)

This European Standard was approved by CENELEC on 1997-07-01. Amendment A11 was approved by CENELEC on 2002-09-01. 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 96/51/FDIS, future edition 1 of IEC 61558-2-7, prepared by IEC TC 96, Small power transformers, reactors and power supply units and special transformers, reactors and power supply units: safety requirements, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61558-2-7 on 1997-07-01, together with common modifications prepared by the CENELEC BTTF 64-1, Isolating and safety isolating transformers.

This European Standard supersedes chapter III, section 2 of EN 60742:1995.

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) 1998-02-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2000-08-01

For products which have complied with chapter III, section 2 of EN 60742:1995 before 2000-08-01, as shown by the manufacturer or by a certification body, this previous standard may continue to apply for production until 2001-08-01.

This Part 2-7 of EN 61558 is to be used in conjunction with EN 61558-1:1997.

This Part 2 supplements or modifies the corresponding clauses of EN 61558-1, so as to convert it into the European Standard “Particular requirements for transformers for toys”.

When a particular clause or subclause of Part 1 is not mentioned in this Part 2, that clause or subclause applies as far as is reasonable. Where this Part 2 states “addition”, “modification” or “replacement”, the relevant text of Part 1 is to be adapted accordingly.

Subclauses and figures which are additional to those in Part 1 are numbered starting from 101.

There are no special national conditions (snc) causing a deviation from this European Standard other than those listed in Annex ZA of EN 61558-1.

Foreword to amendment A11

This amendment was prepared by the Technical Committee CENELEC TC 96, Small power transformers, reactors and power supply units: Safety requirements.

The text of the draft was submitted to the Unique Acceptance Procedure and was approved by CENELEC as amendment A11 to EN 61558-2-7:1997 on 2002-09-01.

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 (dop) 2003-09-01 or by endorsement
- latest date by which the national standards conflicting with the amendment have to be withdrawn (dow) 2005-09-01

1 Scope

Replacement:

This Part 2 of IEC 61558 applies to **transformers for toys** having a **rated supply voltage** not exceeding 250 V a.c., a **rated frequency** of 50/60 Hz, a **rated output voltage** not exceeding 24 V a.c. or 33 V ripple-free d.c. and a **rated output** not exceeding 200 VA and a **rated output current** not exceeding 10 A.

This standard does not in general take into account playing with the transformer by children.

2 Normative references

This clause of Part 1 is applicable.

3 Definitions

This clause of Part 1 is applicable except as follows:

Addition:

3.1.101 **transformer for toys: safety isolating transformer** designed to supply toys and having a **rated output voltage** not exceeding 24 V a.c. or 33 V ripple-free d.c.

4 General requirements

This clause of Part 1 is applicable.

5 General notes on tests

This clause of Part 1 is applicable except as follows:

5.12 This subclause is not applicable.

6 Ratings

This clause of Part 1 is applicable except as follows:

Addition:

6.101 The **rated output voltage** shall not exceed 24 V a.c. or 33 V ripple-free d.c.

Preferred values are: 1,5 V; 3 V; 4,5 V; 6 V; 9 V; 12 V and 24 V.

6.102 **Transformers for toys** shall have only one **rated supply voltage** not exceeding 250 V.

6.103 The **rated output** shall not exceed 200 VA.

6.104 The **rated output current** shall not exceed 10 A.