



# SLOVENSKI STANDARD SIST EN IEC 61558-2-4:2025

01-maj-2025

Nadomešča:  
SIST EN 61558-2-4:2010

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**Varnost transformatorjev, dušilk, napajalnikov in kombinacij teh - 2-4. del:  
Posebne zahteve in preskusi za ločilne transformatorje in napajalnike z ločilnimi  
transformatorji za splošno uporabo**

Safety of transformers, reactors, power supply units and combinations thereof - Part 2-4:  
Particular requirements and tests for isolating transformers and power supply units  
incorporating isolating transformers for general applications

Sicherheit von Transformatoren, Drosseln, Netzgeräten und entsprechenden  
Kombinationen - Teil 2-4: Besondere Anforderungen und Prüfungen für  
Trenntransformatoren und Netzgeräte, die Trenntransformatoren enthalten, für  
allgemeine Anwendungen

Sécurité des transformateurs, bobines d'inductance, blocs d'alimentation et  
combinaisons de ces éléments - Partie 2-4 : Exigences particulières et essais pour les  
transformateurs de séparation des circuits et les blocs d'alimentation incorporant des  
transformateurs de séparation des circuits pour applications d'ordre général

**Ta slovenski standard je istoveten z: EN IEC 61558-2-4:2025**

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**ICS:**

29.180          Transformatorji. Dušilke          Transformers. Reactors

**SIST EN IEC 61558-2-4:2025**          en



EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN IEC 61558-2-4**

March 2025

ICS 29.180

Supersedes EN 61558-2-4:2009

English Version

**Safety of transformers, reactors, power supply units and combinations thereof - Part 2-4: Particular requirements and tests for isolating transformers and power supply units incorporating isolating transformers for general applications (IEC 61558-2-4:2021)**

Sécurité des transformateurs, bobines d'inductance, blocs d'alimentation et combinaisons de ces éléments - Partie 2-4 : Exigences particulières et essais pour les transformateurs de séparation des circuits et les blocs d'alimentation incorporant des transformateurs de séparation des circuits pour applications d'ordre général (IEC 61558-2-4:2021)

Sicherheit von Transformatoren, Drosseln, Netzgeräten und entsprechenden Kombinationen - Teil 2-4: Besondere Anforderungen und Prüfungen für Trenntransformatoren und Netzgeräte, die Trenntransformatoren enthalten, für allgemeine Anwendungen (IEC 61558-2-4:2021)

This European Standard was approved by CENELEC on 2021-06-22. 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 CEN-CENELEC Management Centre 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 CEN-CENELEC Management Centre has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.



European Committee for Electrotechnical Standardization  
Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

**EN IEC 61558-2-4:2025 (E)****European foreword**

The text of document 96/505/FDIS, future edition 3 of IEC 61558-2-4, prepared by TC 96 "Transformers, reactors, power supply units, and combinations thereof" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 61558-2-4:2025.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2026-03-31
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2028-03-31

This document supersedes EN 61558-2-4:2009 and all of its amendments and corrigenda (if any).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

This document is read in conjunction with EN IEC 61558-1:2019.

Any feedback and questions on this document should be directed to the users' national committee. A complete listing of these bodies can be found on the CENELEC website.

**iTeh Standards**  
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The text of the International Standard IEC 61558-2-4:2021 was approved by CENELEC as a European Standard without any modification.

<https://standards.iteh.ai>  
[SIST EN IEC 61558-2-4:2025](https://standards.iteh.ai)

<https://standards.iteh.ai> In the official version, for Bibliography, the following notes have to be added for the standard indicated: [SIST EN IEC 61558-2-4:2025](https://standards.iteh.ai)

IEC 61558 series	NOTE	Approved as EN 61558 series
IEC 60204-1:2016	NOTE	Approved as EN 60204-1:2018

## Annex ZA (normative)

### Normative references to international publications with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: [www.cenelec.eu](http://www.cenelec.eu).

*Annex ZA of EN IEC 61558-1 is applicable, except as follows:*

*Add:*

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61558-1	2017	Safety of transformers, reactors, power supply units and combinations thereof - Part 1: General requirements and tests	EN IEC 61558-1	2019

(<https://standards.iteh.ai>)  
Document Preview

[SIST EN IEC 61558-2-4:2025](https://standards.iteh.ai/catalog/standards/sist/72674c27-ceca-4742-9f91-e32fd15c2b9e/sist-en-iec-61558-2-4-2025)

<https://standards.iteh.ai/catalog/standards/sist/72674c27-ceca-4742-9f91-e32fd15c2b9e/sist-en-iec-61558-2-4-2025>





IEC 61558-2-4

Edition 3.0 2021-05

# INTERNATIONAL STANDARD

GROUP SAFETY PUBLICATION

**Safety of transformers, reactors, power supply units and combinations thereof –  
Part 2-4: Particular requirements and tests for isolating transformers and power  
supply units incorporating isolating transformers for general applications**

Document Preview

[SIST EN IEC 61558-2-4:2025](https://standards.iteh.ai/catalog/standards/sist/72674c27-ceca-4742-9f91-e32fd15c2b9e/sist-en-iec-61558-2-4-2025)

<https://standards.iteh.ai/catalog/standards/sist/72674c27-ceca-4742-9f91-e32fd15c2b9e/sist-en-iec-61558-2-4-2025>

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**SAFETY OF TRANSFORMERS, REACTORS,  
POWER SUPPLY UNITS AND COMBINATIONS THEREOF –****Part 2-4: Particular requirements and tests  
for isolating transformers and power supply units  
incorporating isolating transformers for general applications**

## FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as “IEC Publication(s)”). 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. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International standard IEC 61558-2-4 has been prepared by IEC technical committee 96: Transformers, reactors, power supply units and combinations thereof.

This third edition cancels and replaces the second edition published in 2009. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) adjustment of structure and references in accordance with IEC 61558-1:2017;
- b) description of constructions moved to IEC 61558-1:2017;
- c) a new symbol for power supply unit with linearly regulated output voltage.

The text of this International Standard is based on the following documents:

FDIS	Report on voting
96/505/FDIS	96/511/RVD

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

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at [www.iec.ch/members\\_experts/refdocs](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/standardsdev/publications](http://www.iec.ch/standardsdev/publications).

It has the status of a group safety publication in accordance with IEC Guide 104.

This International Standard is to be used in conjunction with IEC 61558-1:2017.

NOTE When "Part 1" is mentioned in this standard, it refers to IEC 61558-1:2017.

This document supplements or modifies the corresponding clauses in IEC 61558-1:2017, so as to convert that publication into the IEC standard: *Particular requirements and tests for isolating transformers and power supply units incorporating isolating transformers for general applications*.

A list of all parts in the IEC 61558 series published under the general title *Safety of transformers, reactors, power supply units and combinations thereof*, can be found on the IEC website.

Future standards in this series will carry the new general title as cited above. Titles of existing standards in this series will be updated at the time of the next edition.

Where this document states "*addition*", "*modification*" or "*replacement*", the relevant text of IEC 61558-1:2017 is to be adapted accordingly.

In this document, the following print types are used:

- requirements proper: in roman type;
- *test specifications: in italic type*;
- explanatory matter: in smaller roman type.

In the text of this document, the words in **bold** are defined in Clause 3.

Subclauses, notes, figures and tables additional to those in IEC 61558-1:2017 are numbered starting from 101; supplementary annexes are entitled AA, BB, etc.