

SLOVENSKI STANDARD SIST EN IEC 60652:2021

01-december-2021

Nadomešča:

SIST EN 60652:2005

Nosilne konstrukcije nadzemnih vodov - Preskusi obremenitev (IEC 60652:2021)

Overhead line structures - Loading tests (IEC 60652:2021)

Freileitungstragwerke - Belastungsprüfungen (IEC 60652:2021)

iTeh STANDARD PREVIEW
Essais mécaniques des structures de lignes aériennes (IEC 60652:2021)
(standards.iteh.ai)

Ta slovenski standard je istoveten z: EN JEC 60652:2021

https://standards.iteh.ai/catalog/standards/sist/8d3cb6b7-82f7-48cf-8f89-

7e2e264ded00/sist-en-iee-60652-2021

ICS:

29.240.20 Daljnovodi Power transmission and

distribution lines

SIST EN IEC 60652:2021 en,fr,de

SIST EN IEC 60652:2021

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN IEC 60652:2021 https://standards.iteh.ai/catalog/standards/sist/8d3cb6b7-82f7-48cf-8f89-7e2e264dcd00/sist-en-iec-60652-2021 EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM **EN IEC 60652**

September 2021

ICS 29.240.20

Supersedes EN 60652:2004 and all of its amendments and corrigenda (if any)

English Version

Overhead line structures - Loading tests (IEC 60652:2021)

Essais mécaniques des structures de lignes aériennes (IEC 60652:2021)

Freileitungstragwerke - Belastungsprüfungen (IEC 60652:2021)

This European Standard was approved by CENELEC on 2021-09-03. 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.

(standards.iteh.ai)

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, Turkey and the United Kingdom. Standards lich av catalog standards six 803cbbb / 8217-48cl-889-

7e2e264dcd00/sist-en-iec-60652-2021



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 60652:2021 (E)

European foreword

The text of document 11/276/FDIS, future edition 3 of IEC 60652, prepared by IEC/TC 11 "Overhead lines" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 60652:2021.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2022–06–03 level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the (dow) 2024–09–03 document have to be withdrawn

This document supersedes EN 60652:2004 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.

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 STANDARD PREVIEW

(standards.iteh.ai)

The text of the International Standard IEC 60652:2021 was approved by CENELEC as a European Standard without any modification.

SIST EN IEC 60652:2021

https://standards.iteh.ai/catalog/standards/sist/8d3cb6b7-82f7-48cf-8f89-7e2e264dcd00/sist-en-iec-60652-2021

EN IEC 60652:2021 (E)

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.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	EN/HD	<u>Year</u>
IEC 60050-466	1990	International Electrotechnical Vocabular (IEV) - Part 466: Overhead lines	y-	-
AMD/1	2020		-	-
ISO/IEC 17025	2017	General requirements for the competence of testing and calibration laboratories		2017
CIGRE Brochure	2009	Improvement on the Tower Testing	g-	-
399		Methodology		
		<u>SIST EN IEC 60652:2021</u>		

https://standards.iteh.ai/catalog/standards/sist/8d3cb6b7-82f7-48cf-8f89-7e2e264dcd00/sist-en-iec-60652-2021

SIST EN IEC 60652:2021

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN IEC 60652:2021 https://standards.iteh.ai/catalog/standards/sist/8d3cb6b7-82f7-48cf-8f89-7e2e264dcd00/sist-en-iec-60652-2021



IEC 60652

Edition 3.0 2021-07

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Overhead line structures Stoading tests D PREVIEW

Structures des lignes aériennes – Essais mécaniques

SIST EN IEC 60652:2021 https://standards.iteh.ai/catalog/standards/sist/8d3cb6b7-82f7-48cf-8f89-7e2e264dcd00/sist-en-iec-60652-2021

INTERNATIONAL ELECTROTECHNICAL COMMISSION

COMMISSION ELECTROTECHNIQUE INTERNATIONALE

ICS 29.240.20 ISBN 978-2-8322-9958-6

Warning! Make sure that you obtained this publication from an authorized distributor.

Attention! Veuillez vous assurer que vous avez obtenu cette publication via un distributeur agréé.

CONTENTS

FOREW	ORD	3		
1 Scc	ppe	5		
2 Nor	mative references	5		
3 Ter	ms and definitions	5		
4 Cat	egories of tests	6		
4.1	General	6		
4.2	Design tests	6		
4.3	Sample tests	6		
5 Gei	neral test criteria	7		
6 Acc	eptability of test station	7		
7 Tes	t specification	7		
8 Tes	et programme	8		
9 Ass	embly of support	8		
10 Loa	id application	9		
10.1	General	9		
10.2	Combined loads	9		
10.3	Precautions for load application.). A.R.D. P.R.F.V.I.R.W	9		
10.4	Load levels Destruction tests (standards.iteh.ai)	9		
10.5				
10.6	Tolerances on applied loads	10		
10.7	Tolerances on applied loads	10		
	asurements7e2e264dcd00/sist-en-iec-60652-2021	10		
11.1	Load and angle measurements			
11.2	Deflection measurements			
11.3	Strain measurements			
	quence of test loading cases			
	eo documentation			
	eptance criteria			
	mature failure			
15.1	Design tests			
15.2	Sample tests			
15.3	Replacement of components			
	terial specification			
	•			
18 Red	cord and traceability	13		
Tabla 4	Landalana	40		

INTERNATIONAL ELECTROTECHNICAL COMMISSION

OVERHEAD LINE STRUCTURES - LOADING TESTS

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.
- 2) The formal decisions or agreements of IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested IEC National Committees.
- 3) IEC Publications have the form of recommendations for international use and are accepted by IEC National Committees in that sense. While all reasonable efforts are made to ensure that the technical content of IEC Publications is accurate, IEC cannot be held responsible for the way in which they are used or for any misinterpretation by any end user.
- 4) In order to promote international uniformity, IEC National Committees undertake to apply IEC Publications transparently to the maximum extent possible in their national and regional publications. Any divergence between any IEC Publication and the corresponding national or regional publication shall be clearly indicated in the latter.
- 5) IEC itself does not provide any attestation of conformity. Independent certification bodies provide conformity assessment services and, in some areas, access to IEC marks of conformity. IEC is not responsible for any services carried out by independent certification bodies.
- 6) All users should ensure that they have the latest edition of this publication.
- 7) No liability shall attach to IEC or its directors, employees, servants or agents including individual experts and members of its technical committees and IEC National Committees for any personal injury, property damage or other damage of any nature whatsoever, whether direct or indirect, or for costs (including legal fees) and expenses arising out of the publication, use of, or reliance upon, this IEC Publication or any other IEC Publications
- 8) Attention is drawn to the Normative references cited in this publication. Use of the referenced publications is indispensable for the correct application of this publication.
- 9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

IEC 60652 has been prepared by IEC technical committee 11: Overhead lines. It is an International Standard.

This third edition cancels and replaces the second edition published in 2002. This edition constitutes a technical revision.

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

- a) Title modified;
- b) Added reference to CIGRE Brochure 399;
- c) In Clause 7, added test limitation for wind speed and direction during testing;
- d) In paragraph 10.5, added load increments for destruction tests;
- e) In paragraph 10.7, added a requirement for an agreement between client and testing station when testing supports made of creep-sensitive materials;
- f) In Clause 17, added requirements for sampling procedure to be provided in the test report.

IEC 60652:2021 © IEC 2021

-4 -

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

FDIS	Report on voting
11/276/FDIS	11/277/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. The main document types developed by IEC are described in greater detail at www.iec.ch/standardsdev/publications.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or ANDARD PREVIEW
- amended.

(standards.iteh.ai)

SIST EN IEC 60652:2021 https://standards.iteh.ai/catalog/standards/sist/8d3cb6b7-82f7-48cf-8f89-7e2e264dcd00/sist-en-iec-60652-2021