



SLOVENSKI STANDARD
SIST EN 62343-2:2014

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SIST EN 62343-2:2011

Dinamični moduli - 2. del: Kvalifikacije zanesljivosti (IEC 62343-2:2014)

Dynamic modules - Part 2: Reliability qualification

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Ta slovenski standard je istoveten z: EN 62343-2:2014

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ICS:

33.180.30 Optični ojačevalniki Optic amplifiers

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EUROPEAN STANDARD

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NORME EUROPÉENNE

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English Version

**Dynamic modules - Part 2: Reliability qualification
(IEC 62343-2:2014)**Modules dynamiques - Partie 2: Qualification de fiabilité
(CEI 62343-2:2014)Dynamische Module - Teil 2: Beurteilung der
Zuverlässigkeit
(IEC 62343-2:2014)

This European Standard was approved by CENELEC on 2014-09-01. 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 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.

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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

Foreword

The text of document 86C/1185/CDV, future edition 2 of IEC 62343-2, prepared by SC 86C "Fibre optic systems and active devices" of IEC/TC 86 "Fibre optics" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 62343-2:2014.

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) 2015-06-01
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2017-09-01

This document supersedes EN 62343-2:2011.

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

Endorsement notice

The text of the International Standard IEC 62343-2:2014 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

SIST EN 62343-2:2014		
IEC 61000-4-2	NOTE	Harmonized as EN 61000-4-2.
IEC 61000-4-3	NOTE	Harmonized as EN 61000-4-3.
IEC 61000-4-4	NOTE	Harmonized as EN 61000-4-4.
IEC 61000-4-5	NOTE	Harmonized as EN 61000-4-5.
IEC 61000-4-6	NOTE	Harmonized as EN 61000-4-6.
IEC 61291-5-2	NOTE	Harmonized as EN 61291-5-2.
IEC 61300-2-5	NOTE	Harmonized as EN 61300-2-5.
IEC 61300-2-9	NOTE	Harmonized as EN 61300-2-9.
IEC 61300-2-42	NOTE	Harmonized as EN 61300-2-42.
IEC 61300-2-44	NOTE	Harmonized as EN 61300-2-44.
IEC 61753-1	NOTE	Harmonized as EN 61753-1.
CISPR 22	NOTE	Harmonized as EN 55022.

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 When 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>	<u>EN/HD</u>	<u>Year</u>
IEC 61300-2-1	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures -- Part 2-1: Tests - Vibration (sinusoidal)	EN 61300-2-1	-
IEC 61300-2-4	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures -- Part 2-4: Tests - Fibre/cable retention	EN 61300-2-4	-
IEC 61300-2-12	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures -- Part 2-12: Tests - Impact	EN 61300-2-12	-
IEC 62005-9-1	-	Fibre optic interconnecting devices and passive components - Reliability -- Part 9-1: Qualification of passive optical components	EN 62005-9-1 ¹⁾	-
IEC 62005-9-2	-	Reliability of fibre optic interconnecting devices and passive optical components -- Part 9-2: Reliability qualification for single fibre optic connector sets - single mode	-	-
IEC 62572 series	-	Fibre optic active components and devices - Reliability standards	EN 62572 series	-
ISO 9000	-	Quality management systems - Fundamentals and vocabulary	-	-

¹⁾ At draft stage.

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Dynamic modules – **STANDARD PREVIEW**
Part 2: Reliability qualification
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Partie 2: Qualification de fiabilité
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INTERNATIONAL ELECTROTECHNICAL COMMISSION

DYNAMIC MODULES –

Part 2: Reliability qualification

FOREWORD

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International Standard IEC 62343-2 has been prepared by subcommittee 86C: Fibre optic systems and active devices, of IEC technical committee 86: Fibre optics.

This second edition cancels and replaces the first edition published in 2011 and constitutes a technical revision. The main change with respect to the previous edition is the addition of Annex A (informative), Reliability test items and their conditions.

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

CDV	Report on voting
86C/1185/CDV	86C/1248/RVC

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

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts in the IEC 62343 series, published under the general title *Dynamic modules*, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

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

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DYNAMIC MODULES –

Part 2: Reliability qualification

1 Scope

This part of IEC 62343 applies to dynamic modules and devices (DMs) which are commercially available. Examples are tuneable chromatic dispersion compensators, wavelength selective switches and optical channel monitors.

Optical amplifiers are not included in this list, but are treated in IEC 61291-5-2.

For reliability qualification purposes, some information about the internal components, parts and interconnections is needed; these internal parts are treated as black boxes. This standard gives requirements for the evaluation of DM reliability by combining the reliability of such internal black boxes.

The objectives of this standard are the following:

- to specify the requirements for the reliability qualification of DMs;
- to give the minimum list of reliability qualification tests, requirements on failure criteria during testing and on reliability predictions and give the relevant normative references.

2 Normative references

SIST EN 62343-2:2014

<https://standards.iteh.ai/catalog/standards/sist/a965de03-c597-4935-b96a-3662c37122c1/iec-62343-2-2014>

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IEC 61300-2-1, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-1: Tests – Vibration (sinusoidal)*

IEC 61300-2-4, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-4: Tests – Fibre/cable retention*

IEC 61300-2-12, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-12: Tests – Impact*

IEC 62005-9-1, *Fibre optic interconnecting devices and passive components – Reliability – Part 9-1: Qualification of passive optical components¹*

IEC 62005-9-2, *Reliability of fibre optic interconnecting devices and passive optical components – Part 9-2: Reliability qualification for single fibre optic connector sets – Single mode*

IEC 62572 (all parts), *Fibre optic active components and devices – Reliability standards*

ISO 9000: *Quality management systems – Fundamentals and vocabulary*

¹ To be published.