

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

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**Dynamic modules –  
Part 1: Performance standards – General conditions**

**Modules dynamiques –  
Partie 1: Normes de performance – Conditions générales**



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INTERNATIONAL  
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ICS 33.180.01; 33.180.99

ISBN 978-2-8322-6508-6

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## DYNAMIC MODULES –

## Part 1: Performance standards – General conditions

## FOREWORD

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International Standard IEC 62343-1 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 2016, and constitutes a technical revision.

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

- a) errors of Table 1 has been corrected;
- b) the contents of Table A.1 has been revised.

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

CDV	Report on voting
86C/1518/CDV	86C/1560/RVC

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

This document 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 document will remain unchanged until the stability date indicated on the IEC website under "<http://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- withdrawn,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
- amended.

## INTRODUCTION

Performance standards define standard electrical and optical performance under a set of prescribed conditions and contain a series or a set of tests and measurements with clearly defined conditions, severities and pass/fail criteria. The tests are intended to be run on initial design verification to prove the product's ability to satisfy the requirements of a specific application, market sector or user group.

Performance standards do not specify the requirements on reliability, which are defined in IEC 62343-2.

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## DYNAMIC MODULES –

### Part 1: Performance standards – General conditions

#### 1 Scope

This document provides general conditions for the standard performance of optical dynamic modules. All performance standards of dynamic modules are based on the general conditions defined in this document. Additional conditions are included in individual performance standards.

#### 2 Normative references

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.

IEC 62343, *Dynamic modules – General and guidance*

IEC TS 62538, *Categorization of optical devices*

ITU-T Recommendation G.Supplement 39 to ITU-T G-series Recommendations, *Optical system design and engineering considerations*

#### 3 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 62343 and IEC TS 62538 apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

#### 4 Requirements of operating conditions

Dynamic modules are generally installed in optical transmission equipment located in central offices that have a temperature and humidity controlled environment. All dynamic modules shall satisfy their performance requirements under the general conditions specified in this document.

Table 1 specifies the minimum requirements of operating conditions for dynamic modules and devices for commercial use. All performance parameters shall satisfy the specifications defined in relevant performance standards under the operating conditions in Table 1, unless otherwise stated.

Recommendations for other conditions on product specifications are shown in Annex A.