



**SLOVENSKI STANDARD  
SIST EN 61290-1-1:2007**

**01-september-2007**

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SIST EN 61290-2-1:1999**

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Optical amplifiers - Test methods -- Part 1-1: Power and gain parameters - Optical spectrum analyzer method (IEC 61290-1-1:2006)

Prüfverfahren für Lichtwellenleiter-Verstärker - Teil 1-1: Optische Leistungs- und Verstärkungsparameter - Verfahren mit optischem Spektralanalysator (IEC 61290-1-1:2006)

Amplificateurs optiques - Méthodes d'essai - Partie 1-1: Paramètres de puissance et de gain - Méthode de l'analyseur de spectre optique (IEC 61290-1-1:2006)

**Ta slovenski standard je istoveten z: EN 61290-1-1:2006**

**ICS:**

33.180.30 U] cã } ã [ ðe ^ çã) ã ã Optic amplifiers

**SIST EN 61290-1-1:2007 en,fr,de**

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English version

**Optical amplifiers -  
Test methods  
Part 1-1: Power and gain parameters -  
Optical spectrum analyzer method  
(IEC 61290-1-1:2006)**

Amplificateurs optiques -  
Méthodes d'essai  
Partie 1-1: Paramètres de puissance  
et de gain -  
Méthode de l'analyseur de spectre optique  
(CEI 61290-1-1:2006)

Prüfverfahren für Lichtwellenleiter-  
Verstärker  
Teil 1-1: Optische Leistungs- und  
Verstärkungsparameter -  
Verfahren mit optischem  
Spektralanalysator  
(IEC 61290-1-1:2006)

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This European Standard was approved by CENELEC on 2006-09-01. 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, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the 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 86C/694/CDV, future edition 2 of IEC 61290-1-1, prepared by SC 86C, Fibre optic systems and active devices, of IEC TC 86, Fibre optics, was submitted to the IEC-CENELEC parallel Unique Acceptance Procedure and was approved by CENELEC as EN 61290-1-1 on 2006-09-01.

This European Standard supersedes EN 61290-1-1:1998 and EN 61290-2-1:1998.

The main significant changes are the following:

- a) This revision includes test methods not only for gain parameters, as in its first edition, but also for optical power parameters, previously covered by EN 61290-2-1:1998.
- b) The applicability has been extended to all commercially available optical amplifiers – not just optical fibre amplifiers.

This standard shall be used in conjunction with EN 61291-1.

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) 2007-06-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2009-09-01

Annex ZA has been added by CENELEC.

SIST EN 61290-1-1:2007  
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The text of the International Standard IEC 61290-1-1:2006 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following note has to be added for the standard indicated:

IEC 61290-10      NOTE Harmonized as EN 61290-10 (series) (not modified).

**Annex ZA**  
(normative)

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

The following referenced documents are indispensable for the application 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 When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61291-1	- <sup>1)</sup>	Optical amplifiers Part 1: Generic specification	EN 61291-1	2006 <sup>2)</sup>

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<sup>1)</sup> Undated reference.

<sup>2)</sup> Valid edition at date of issue.

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**NORME  
INTERNATIONALE  
INTERNATIONAL  
STANDARD**

**CEI  
IEC**

**61290-1-1**

Deuxième édition  
Second edition  
2006-08

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**Amplificateurs optiques –  
Méthodes d'essai –**

**Partie 1-1:  
Paramètres de puissance et de gain –  
Méthode de l'analyseur de spectre optique**

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**Optical amplifiers –  
Test methods –**

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**Part 1-1:  
Power and gain parameters –  
Optical spectrum analyzer method**

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Commission Electrotechnique Internationale  
International Electrotechnical Commission  
Международная Электротехническая Комиссия

CODE PRIX  
PRICE CODE

**N**

*Pour prix, voir catalogue en vigueur  
For price, see current catalogue*

## CONTENTS

FOREWORD.....	5
1 Scope and object.....	11
2 Normative references .....	11
3 Acronyms and abbreviations.....	13
4 Apparatus.....	13
5 Test sample.....	17
6 Procedure .....	17
7 Calculation .....	21
8 Test results .....	23
Figure 1 – Typical arrangement of the optical spectrum analyzer test apparatus for gain and power measurements .....	13
Figure 2 – Typical behaviour of the gain as a function of the input signal power.....	21

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**OPTICAL AMPLIFIERS – TEST METHODS –****Part 1-1: Power and gain parameters –  
Optical spectrum analyzer method**

## 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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- 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.

International Standard IEC 61290-1-1 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 1998 and constitutes a technical revision. The main significant changes are the following:

- a) This revision includes test methods not only for gain parameters, as in its first edition, but also for optical power parameters, previously covered by IEC 61290-2-1. Therefore International Standard IEC 61290-2-1 is withdrawn, being superseded by this standard.
- b) The applicability has been extended to all commercially available optical amplifiers – not just optical fibre amplifiers.

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

CVD	Report on voting
86C/694/CDV	86C/710/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.

This standard shall be used in conjunction with IEC 61291-1. It was established on the basis of the first (1998) edition of that standard.

A list of all parts of the IEC 61290 series, published under the general title *Optical amplifiers – Test methods*:<sup>1</sup> can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the maintenance result 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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<sup>1</sup> The first editions of some of these parts were published under the general title *Optical fibre amplifiers – Basic specification* or *Optical amplifier test methods*.

## INTRODUCTION

This International Standard is devoted to the subject of optical fibre amplifiers. The technology of optical fibre amplifiers is still rapidly evolving, hence amendments and new editions to this standard can be expected.

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