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Optical amplifiers - Part 2: Single channel applications -
Performance specification template

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 61291-2:2016 sisaldab Euroopa standardi EN 61291-2:2016 ingliskeelset teksti.	This Estonian standard EVS-EN 61291-2:2016 consists of the English text of the European standard EN 61291-2:2016.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 03.06.2016.	Date of Availability of the European standard is 03.06.2016.
Standard on kättesaadav Eesti Standardikeskusest.	The standard is available from the Estonian Centre for Standardisation.

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ICS 33.180.30

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English Version

Optical amplifiers - Part 2: Single channel applications - Performance specification template (IEC 61291-2:2016)

Amplificateurs optiques - Partie 2: Applications numériques
- Modèles de spécifications de performances
(IEC 61291-2:2016)

Lichtwellenleiter-Verstärker - Teil 2: Einzelkanal-
Anwendungen - Vorlage für
Betriebsverhaltensspezifikationen
(IEC 61291-2:2016)

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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

European foreword

The text of document 86C/1318/CDV, future edition 4 of IEC 61291-2, 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 61291-2:2016.

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) 2016-12-24
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2019-03-24

This document supersedes EN 61291-2:2012.

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

- a) The title of this standard has been changed from digital application to single channel application.
- b) The scope has been changed. Reflecting the scope change, the titles of Tables have been changed.
- c) Terms and definitions have been revised.
- d) Three tables regarding the minimum list of relevant parameters of power amplifiers, pre-amplifiers and line amplifiers based on semiconductor optical amplifier (SOA) components have been added.
- e) Transient parameters have been added in the minimum list of relevant parameters of pre-amplifiers and line amplifiers based on optical fibre amplifier (OFA) module."

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The text of the International Standard IEC 61291-2:2016 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:

IEC 61280 (series)	NOTE	Harmonized as EN 61280 (series).
IEC 61291-4	NOTE	Harmonized as EN 61291-4.
IEC 62148-11	NOTE	Harmonized as EN 62148-11.
IEC 62149-1	NOTE	Harmonized as EN 62149-1.
IEC 62149-3	NOTE	Harmonized as EN 62149-3.
IEC 62572-3	NOTE	Harmonized as EN 62572-3.

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 60825-1	-	Safety of laser products -- Part 1: Equipment classification and requirements	EN 60825-1	-
IEC 61000	series	Electromagnetic compatibility (EMC) Electromagnetic compatibility (EMC)	EN 61000	series
IEC 61290-1	series	Optical amplifiers - Test methods - Part 1: Power and gain parameters	EN 61290-1	series
IEC 61290-3	series	Optical amplifiers - Test methods - Part 3: Noise figure parameters	EN 61290-3	series
IEC 61290-4-3		Optical amplifiers - Test methods – Part 4- 3: Power transient parameters – Single channel optical amplifiers in output power control	EN 61290-4-3	
IEC 61290-5	series	Optical amplifiers - Test methods -Part 5: Reflectance Parameters	EN 61290-5	series
IEC 61290-6-1	-	Optical fibre amplifiers - Basic specification -- Part 6-1: Test methods for pump leakage parameters - Optical demultiplexer	EN 61290-6-1	-
IEC 61290-11	series	Optical amplifier - Test methods - Part 11: Polarization mode dispersion parameter	EN 61290-11	series
IEC 61291-1	-	Optical amplifiers -- Part 1: Generic specification	EN 61291-1	-
IEC 61291-5-2	-	Optical amplifiers -- Part 5-2: Qualification specifications - Reliability qualification for optical fibre amplifiers	EN 61291-5-2	-
IEC/TS 62538	2008	Categorization of optical devices	-	-

CONTENTS

FOREWORD.....	3
INTRODUCTION.....	5
1 Scope.....	6
2 Normative references.....	6
3 Terms, definitions and abbreviated terms	7
3.1 Terms and definitions	7
3.2 Abbreviated terms	8
4 Performance specification template for power amplifiers.....	8
5 Performance specification template for pre-amplifiers.....	11
6 Performance specification template for line amplifiers.....	15
7 Electromagnetic compatibility (EMC) requirements	19
8 Laser safety requirements.....	19
Bibliography	20
Table 1 – Minimum relevant parameters for power amplifiers based on OFA components or modules using active fibre specified for single channel applications.....	9
Table 2 – Minimum relevant parameters for power amplifiers based on SOA components specified for single channel applications	10
Table 3 – Minimum relevant parameters for pre-amplifiers based on OFA components or modules using active fibre specified for single channel applications	12
Table 4 – Minimum relevant parameters for pre-amplifiers based on SOA components specified for single channel applications.....	14
Table 5 – Minimum relevant parameters for line amplifiers based on OFA components or modules using active fibre specified for single channel applications	16
Table 6 – Minimum relevant parameters for line amplifiers based on SOA components specified for single channel applications.....	18

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INTRODUCTION

This International Standard is devoted to the subject of optical amplifiers. The technology of optical amplifiers is still rapidly evolving, hence amendments and new additions to this standard can be expected. Each abbreviation introduced in this standard is generally explained in the text the first time it appears. However, for an easier understanding of the whole text, a list of all abbreviations used in this standard is given in Clause 3.

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