PD IEC TR 61292-8:2019

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Optical amplifiers

Part 8: High-power amplifiers

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National foreword

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Optical amplifiers –
Part 8: High-power amplifiers

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

OPTICAL AMPLIFIERS –

Part 8: High-power amplifiers

FOREWORD

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IEC TR 61292-8, which is a technical report, has been prepared by subcommittee 86C: Fibre optic systems and active devices, of IEC technical committee 86: Fibre optics.

Optoelectronics Industry and Technology Development Association (OITDA), Technical Paper OITDA/TP 26/AM, *General information for high power optical amplifier* has served as the basis for the elaboration of this Technical Report.

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The text of this Technical Report is based on the following documents:

Draft TR	Report on voting
86C/1534/DTR	86C/1549/RVDTR

Full information on the voting for the approval of this Technical Report 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.

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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

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- replaced by a revised edition, or
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INTRODUCTION

Optical amplifiers (OAs) are necessary components as booster, line and pre-amplifiers for current optical network systems. IEC TC 86/SC 86C, therefore, has published many standards for OAs. Since the mid-2000s, high optical output power amplifiers have been used for applications in passive optical network (PON) and community access television (CATV) systems.

Although OAs with optical power greater than 500 mW are deployed in the field, there are very few documents addressing high optical power applications.

This document provides a better understanding of high-power amplifiers, especially those based on cladding pump technology, and addresses the handling of high optical power.

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