

CEFA-C-BO-HP SERIES

CW ERBIUM FIBER AMPLIFIER C-BAND HIGH POWER



KEY FEATURES

- Up to 42 dBm of saturated output power
- Polarization-maintaining (optional)
- Narrow linewidth (<100 kHz) amplification
- Choice of turnkey benchtop or module
- Very compact module up to 30 dBm
- Low power consumption
- High reliability
- Cost effective solution

Description

CEFA-C-BO-HP is a CW Erbium doped fiber amplifier, designed for single channel amplification. It delivers up to 42 dBm of saturated output power with a high beam quality ($M^2 < 1.1$).

Narrow linewidth seed laser sources can be amplified without broadening with these Narrow Linewidth (NL1) option.

The CEFA-C-BO-HP is also available as polarization maintaining version.

As turnkey benchtop or OEM module versions, these amplifiers are a high reliable (no maintenance) and cost efficient solutions to amplify seed sources with a minimum power above +5 dBm.

Keopsys propose these amplifiers for a large range of scientific and industrial applications such as free space communication, remote sensing, and many others.

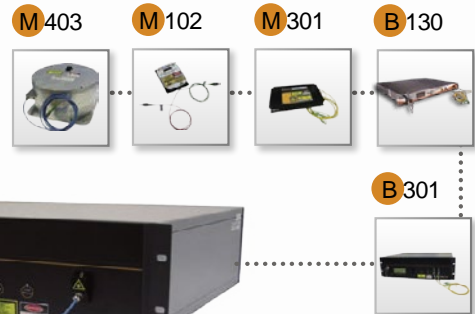
APPLICATIONS



- Optical component testing
- Free space communications
- FTTH/CATV networks
- Remote sensing (LIDAR)
- Test and measurement
- Microwave optics
- Non-linear optics

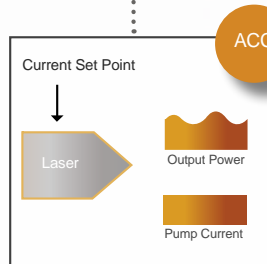
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6 Platforms

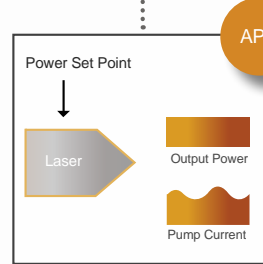


Modes of operation

The devices offer several modes of operation :



ACC (Automatic Current Control) mode is standard for all devices. The laser is controlled from diodes current set point.



APC (Automatic Power Control) mode allows to control the laser at a fixed output power set point. The device maintains a constant optical output power monitored with a photodiode. The current is adjusted automatically.

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V.2.5

Optical Specifications @ 25 °C	CEFA-C-BO-HP						
	CW						
Mode of operation	CW						
Output power (@ minimum input)	25 dBm	27 dBm	30 dBm	33 dBm	37 dBm	40 dBm	42 dBm
Wavelength range	1540-1565 nm				1545-1565 nm		
Input power range	5 to 15 dBm		10 to 20 dBm		15 to 25 dBm		
Power stability (rms over 1 hr)	<1%				<2%		
Polarization	Random (SM) or linear (PM with PER>20 dB)				Random (SM) or linear (PM with PER>17 dB)		
Input monitoring	Yes						
Output monitoring	Yes				Yes (option)		
Control mode	ACC, APC				ACC, APC (option)		
APC Tunability	10 to 100 %						
Narrow linewidth (<100 kHz) amplification	Included				Option		
Optical port fiber type	SMF28 or PANDA						
Input / output termination	FC/APC, SC/APC FC/SPC, SC/SPC		FC/APC, SC/APC, E2PS, C1				

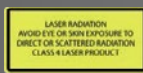
The CEFA-C-BO-HP is available as turn key benchtop or as OEM module.

RELIABILITY

The Keopsys range of fiber amplifiers are manufactured with tested components and are submitted to several inspections during the manufacturing process under a rigorous quality management certified in accordance with the ISO 9001:2008 standard. Our all-in-fiber systems offer maintenance free operation. Countless units are continuously running in demanding environments with no failure.

GUARANTEE

Our fiber systems are under 1 full year parts and labor guarantee. We offer a warranty extension of 1 or 2 years. Please contact us.



Keopsys undertakes a continuous and intensive product development program to ensure that its products perform to then highest technical standards. As a result, the specifications in this document are subject to change without notice.