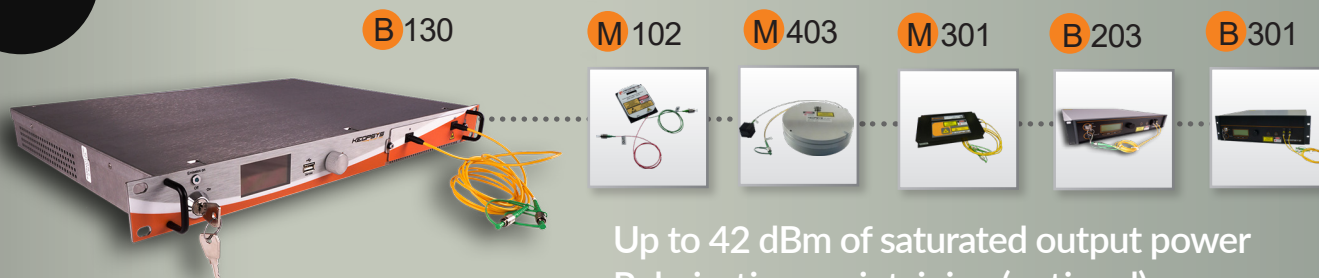


CEFA-C-BO-HP

CW ERBIUM FIBER AMPLIFIER C-BAND HIGH POWER



1.5 μm



Up to 42 dBm of saturated output power
Polarization-maintaining (optional)

The CEFA-C-BO-HP series are Erbium Fiber Amplifiers designed for single channel amplification in the C-Band.

Their unique optical design allows the amplification of narrow linewidth sources and offer a cost-effective solution to amplify source with minimum power starting from +5 dBm. The series includes polarization maintaining models.

The CEFA-C-BO-HP are available in benchtops or compact OEM modules. The benchtop platforms offer the possibility to monitor the amplifier via the front panel or remotely via serial port. The B130 platform also includes an Ethernet port.

The wide range of operation make these amplifiers suitable for many applications, such as remote sensing, tests and measurements, non linear optics, etc ...

Key features

- Up to 42 dBm of saturated output power
- Polarization-maintaining (optional)
- Narrow linewidth amplification
- Benchtop or OEM module versions available
- Very compact OEM module (up to 30 dBm) available
- Low power consumption
- High reliability
- Cost effective solution

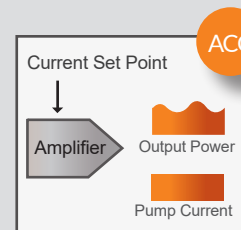
What applications

- Optical component testing
- Remote sensing (LIDAR)
- Test and measurement
- Microwave optics
- Non-linear optics

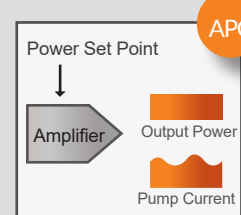


Modes of operation

The devices offer several modes of operation :



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



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

CEFA-C-BO-HP

CW ERBIUM FIBER AMPLIFIER C-BAND HIGH POWER



Optical Specifications
@ 25 °C

CEFA-C-BO-HP

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 Lumibird 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 9001:2015 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 warranty.
We offer a warranty extension of 1 or 2 years. Please contact us.

For ordering information and custom solutions, please contact us : websales@keopsys.com



Lumibird 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.

Lumibird has locations across the globe that are available to provide support for any product, service or inquiry.
Visit www.lumibird.com to connect with any of our global sites.

