

CEFA-C-HG

CW Erbium Fiber Amplifier C-band High Gain



B130



B150



M160

MAIN FEATURES

- High sensitivity with very low input power (-50 dBm)
- High small signal gain up to 50 dB
- Near quantum-limited noise figure
- Polarization-maintaining (optional)
- Single or multi EDFA benchtop or OEM module versions available

MAIN APPLICATIONS

- HIGH SENSITIVITY OPTICAL PREAMPLIFICATION
- FIBER AND FREE-SPACE COMMUNICATION
- OPTICAL REMOTE SENSING
- TEST AND MEASUREMENT

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The CEFA-C-HG series are Erbium Fiber Amplifiers designed for amplification on the C-Band of very weak optical signals, down to -50 dBm.

A near quantum-limited noise figure and a small gain up to 50 dB are achieved through a unique optical design.

Specially designed as a pre-amplification stage for fiber and free-space communication, these high-gain amplifiers are also suitable for remote sensing applications.

The optical design guarantees a very low noise figure and a low amplified spontaneous emission to achieve a high optical to signal to noise ratio.

The series also includes polarization maintaining fiber models.

The CEFA-C-HG are available in single or multi EDFA benchtops or compact OEM modules. The benchtop platform offers the possibility to monitor the amplifier via the front panel or remotely via serial USB and Ethernet ports. Both models offer robustness and reliability.

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www.keopsys.com

Many options and configurations are available. Please contact Lumibird to find the best match for your needs and compatibility between options.

CEFA-C-HG

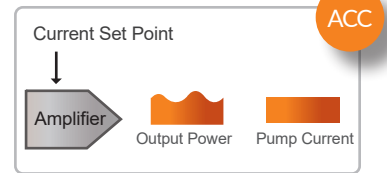
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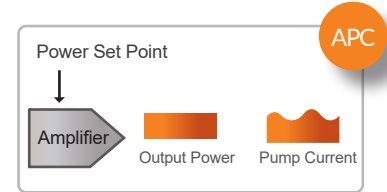
SPECIFICATIONS

	CHG40	CHG50
Mode of operation	CW	
Wavelength range (nm)	1529-1562	
Saturated output power at -6 dBm input (dBm)	15	20
Input power range (dBm)	-50 to 0	
Small signal gain at -40 dBm and 1530 nm input (dB)	> 40	> 50
Noise figure at -40 dBm and 1550 nm input (dB)	< 4 for SM, < 5 for PM	
Polarization	Random (SM) or linear (PM with PER > 20 dB)	
Control mode	ACC, APC	
Output power stability over 1 hour (% rms)	< 1	
Output power tunability (%)	10 to 100	
Input/output termination	FC/APC, SC/APC, FC/UPC, SC/UPC	

Mode of operation



ACC (Automatic Current Control)



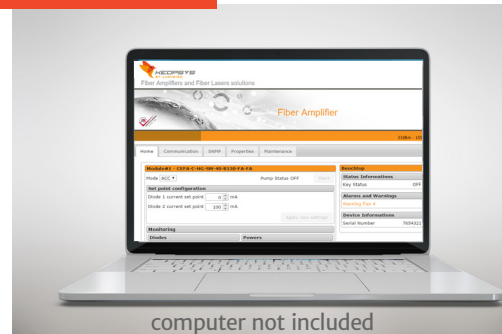
APC (Automatic Power Control)

EASY TO CONTROL !



Benchtop

Control box for modules



computer not included

Control of device

- User-friendly benchtop with dial and front panel display for easy control and monitoring of the product
- Modules with optional control box and cables for easy evaluation

Remote control

- RS232 interface and serial command set provided
- GUI available for modules and as an option for benchtops
- Web server, SNMP, Telnet, SSH protocols (depending on the benchtop model)

Reliability

All our fiber lasers and fiber amplifiers are manufactured according to our ISO certified quality management system, which places the needs and values of customers and partners at the heart of our organization. Throughout the manufacturing process, our components and systems are subjected to rigorous tests and inspections, which guarantees their robustness and reliability in the most demanding environments. Countless units operate continuously without maintenance around the world. The ISO 9001 certificates can be downloaded from our website.



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