

CVFA

CW Visible Fiber Amplifier



B340, B341



ELBA M



MAIN FEATURES

- Frequency doubled or tripled conversion
- Single frequency option
- Up to 3 W out of single mode fiber
- Very low phase noise and RIN degradation
- Excellent OSNR
- Diffraction limited output ($M^2 < 1.1$)
- Linear polarization
- Maintenance free
- Turn-key operation

MAIN APPLICATIONS

- QUANTUM OPTICS SUCH AS BOSE-EINSTEIN CONDENSATE
- OPTICAL TWEEZING
- ATOMIC LASER INTERFEROMETRY
- FORMATION OF COLD MOLECULES
- METROLOGY

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The CVFA series are frequency converted fiber amplifiers designed for CW operation at 5XX and 7XXnm and deliver up to 3 W of saturated output power.

CVFA amplify an external seeder (not provided) through several amplification stages and then convert the signal in a highly reliable dust free single pass frequency conversion module. These amplifiers offer a very good beam pointing stability and a TEM00 beam, $M^2 < 1.1$.

These products are renowned for their robustness, reliability and maintenance free operation.

The products are available in a user-friendly turnkey benchtop or in module. The benchtop platforms offer the possibility to control the amplifier via the front panel or remotely via serial USB and Ethernet ports.

Both models include all the features required for a reliable use. These amplifiers embeds a loss of input detection to turn off the amplifier stages in case of external seeder failure.

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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.

CVFA

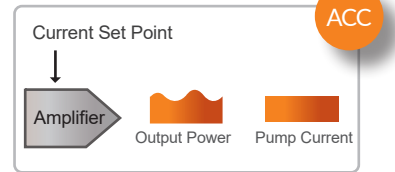
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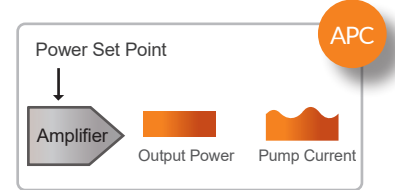
SPECIFICATIONS

	CVFA
Mode of operation	CW
Operating wavelength (nm)	516.6 / 532 / 555.8 / 766.7 / 780.24
Output power (W)	up to 3
Input power range (mW)	≥ 5
Narrow linewidth amplification (<10 MHz)	Yes
Polarization	Linear (20 dB PER for free-space version and 17 dB for single mode fiber output version)
Control mode	ACC, APC
Output power stability over 1 hour (% rms)	< 1
Input/output termination	FC/APC or free-space (output) depending on the models
Beam quality M ²	< 1.1

Mode of operation



ACC (Automatic Current Control)



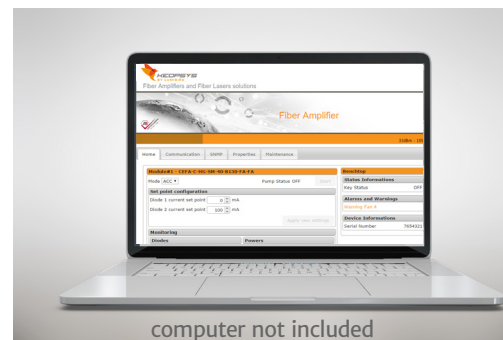
APC (Automatic Power Control)

EASY TO CONTROL !



Control of device

- User-friendly benchtop with dial and front panel display for easy control and monitoring of the product
- Control box and cables delivered with the modules for easy evaluation (option)
- Heat dissipation kit available (option)



computer not included

Remote control

- USB port and command set provided
- GUI available for modules and as an option for benchtops
- Web server, Telnet, SSH protocols for benchtops

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.



LASER RADIATION
AVOID EYE OR SKIN EXPOSURE TO
DIRECT OR SCATTERED RADIATION
CLASS 4 LASER PRODUCT

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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.

