

CYFL-MEGA SERIES

CONTINUOUS WAVE YTTERBIUM FIBER LASER

1 µm MEGALITE FIBER LASERS FOR SENSING AND SHG

KEY FEATURES

- Narrow linewidth of a few tens of MHz
- Single longitudinal mode
- 1064 nm standard operating wavelength
- Output power up to 20 W
- Low amplitude noise
- Diffraction limited output
- Random or linear polarization
- Maintenance free

APPLICATIONS







- Sensing
- Second harmonic generation
- Optical component testing

Description



CYFL-MEGA are Ytterbium fiber doped lasers providing a single mode operation. Thanks to the Keopsys patented design, they deliver a linewidth of few MHz up to 20 W of output power.

These lasers perform a low relative intensity noise and a high optical power stability. The output laser beam is diffraction limited, either in random or in linear polarization version.

Available in benchtop or in module suitable for integration, CYFL-MEGA is an entirely fibered device meaning no alignment of optical part and maintenance free.

Key applications for these sources include sensing and second harmonic generation in order to generate visible light. They also find important use in optical passive component testing at high output power.

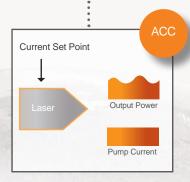
Standard operating wavelength is 1064 nm, although other wavelengths can be requested on a custom basis.

4 Platforms

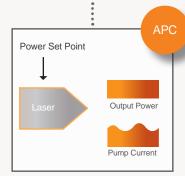


Modes of operation

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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Optical Specifications @ 25 ℃	CYFL-MEGA
Mode of operation	CW
Output power	From 1 to 20 W
Standard operating wavelength	1064 nm
Wavelength stability over 1 hour, +/-1 °C	10pm
Wavelength thermal tuning range	Option
Laser frequency modulation range	Option
Laser frequency modulation bandwidth	DC to 1 kHz (input analog voltage 0 to +4 V)
Spectral linewidth	4 MHz Typ, 20 MHz Max
Optical S/N ratio	>50 dB (+/-1 nm from central wavelength, 0.07 nm resolution)
Polarization	Random or Linear
Seed Tap	Option
Output monitoring	Option (Internal photodiode and automatic power control mode)
Beam quality, M ²	< 1.1
Output termination	FC/APC, E2PS or Collimated

The CYFL-MEGA series lasers are available as benchtop or as OEM module.

RELIABILITY

The Keopsys range of fiber lasers 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.

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





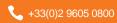




Keopsys undertakes a contunuous and intensive product development program to ensure that its products perform to then highest technical standards. As a result, the specifications in this document are subject to change without notice.







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