CYFL-TERA

CW YTTERBIUM FIBER LASER , TERAHERTZ LINEWIDTH

KEOPSYS BY LUMIBIRD

1.0 µm

B 201 / B 203

B 306

1060 to 1090 nm operating wavelength,
Output power up to 20 W,
...

CYFL-TERA series are Ytterbium-doped fiber lasers providing an output power up to 20 W. The Lumibird optical architecture permits to deliver a diffraction limited output beam suitable for spectroscopy.

Laser trapping, optical tweezing or spectroscopy are among the applications that can be met with the CYFL-TERA lasers series.

These ytterbium fiber lasers provide an output power of 20W with a linewidth of few nm.
CYFL-TERA are available in random or linear polarization.
An amplitude modulation option is proposed to modulate the output power up to 1KHz with an external TTL signal.
These lasers are among the most efficient ones with a wall-plug efficiency of 20%.
The lasers are available in standard as turnkey benchtops for laboratory environments.

The amplifiers 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. Both models offer robustness and reliability.

Key features

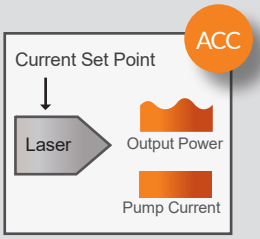
- 1060 to 1090 nm operating wavelength
- Output power up to 20 W
- Linewidth of a few nm
- Amplitude modulation (optional)
- Diffraction limited output
- Random or linear polarization
- High wall-plug efficiency
- Maintenance free

What applications

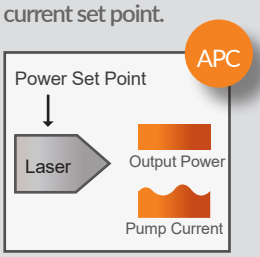
- Optical component testing
- Laser trapping spectroscopy
- Atomic laser interferometry
- Optical tweezing

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 controlling 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.

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

Non contractual photos

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Optical Specifications @ 25 °C	CYFL-TERA
Mode of operation	CW or modulation
Output power	From 1 to 20 W
Standard operating wavelength	1075 +/-15 nm
Linewidth (FWHM)	< 2 nm
Output power stability over 1 hour	< 2 % rms
Polarization	Random or Linear
Amplitude modulation	Option (up to 20 kHz)
Red laser guide	Option
Output power monitor	Option (APC : Internal photodiode and automatic power control mode)
Beam quality, M^2	< 1.1
Output termination	FC/APC or Collimator

The CYFL-TERA is available as turn-key benchtop or as OEM modules on specific request.

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.

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RoHS REACH COMPLIANT CE

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

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LUMIBIRD MORE THAN LASERS