CEFL-TERA SERIES

CW ERBIUM FIBER LASER , TERAHERTZ LINEWIDTH

KEY FEATURES

- 1532,1535, 1550 nm operating wavelength
- Output power up to 30W
- Linewidth of a few nm
- Diffraction limited output
- Random or linear polarization
- High wall-plug efficiency
- Maintenance free

APPLICATIONS



- Optical component testing
- Laser trapping spectroscopy
- Medical (dermatology)
- OPO and Thulium fiber pumping

1.5 µm

Description

CEFL-TERA series are compact CW Erbium doped fiber lasers delivering up to 30 W in random or linear polarization. These lasers, with linewidth of few nanometers, provide a perfect diffraction limited beam and an excellent power stability.

CEFL-TERA can be modulated with an external TTL signal up to 10 kHz.

The Keopsys VSP patented technology, with no optical part to align provide high reliability, robustness and maintenance free devices.
These lasers are therefore perfect tools for passive fiber optics component testing, laser trapping, spectroscopy and skin treatment.
Coming with two formats benchtop or OEM module, CEFL-TERA required no installation and no water for cooling.

3 Platforms

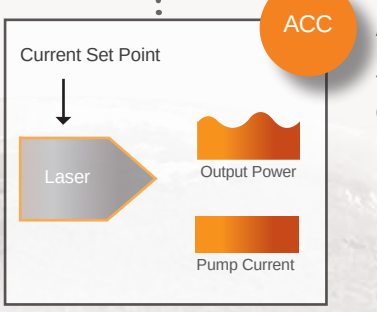
B 313

B 201 / B 203

Modes of operation

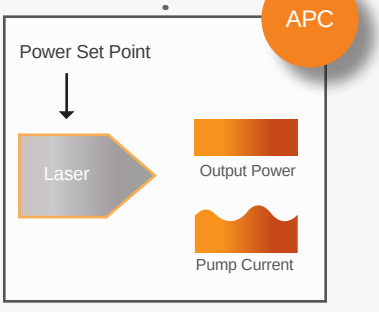
The devices offer several modes of operation :

ACC



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

APC



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.

Non contractual photos

CEFL-TERA SERIES

CONTINUOUS WAVE ERBIUM FIBER LASER, TERAHERTZ LINEWIDTH

Optical Specifications @ *25 °C*	CEFL-TERA
Mode of operation	CW or modulation
Output power	From 1 to 30 W
Operating wavelength	1532 +/-1 nm, 1535 +/-1 nm or 1550 +/- 5nm
Linewidth (FWHM)	< 1 nm
Output power stability over 1 hour	< 2 % rms
Polarization	Random or Linear
Beam quality, M^2	< 1.1
Amplitude modulation	Option
Output power monitor and APC	Option
Fiber type	SM/PANDA
Output termination	FC/APC or Collimator

The CEFL-TERA laser sources are available as user-friendly rack for laboratory use or as OEM module on request for easy integration.

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

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

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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