

# PEFL-KULT SERIES

## PULSED ERBIUM FIBER LASER

1.5  $\mu\text{m}$  ULTRA COMPACT LASER TRANSMITTER



### KEY FEATURES

- 1.5  $\mu\text{m}$  eye-safe operation
- Energy per pulse up to 100  $\mu\text{J}$
- Peak power up to 15 kW
- Pulse duration from 0.5 ns to 200 ns
- Pulse repetition frequency from 10 Hz to 1 MHz
- Continuous or burst operation
- Diffraction limited output beam
- Linear or random polarization
- Low power consumption
- Wide operating temperature range (-35  $^{\circ}\text{C}$  to +65  $^{\circ}\text{C}$ )
- Compact and rugged package

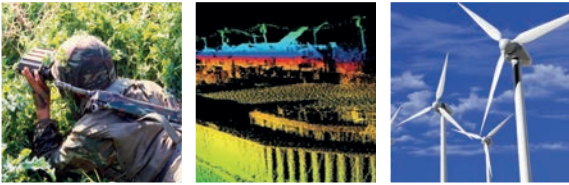
### Description

**PEFL-KULT series are pulsed Erbium doped fiber lasers, delivering high peak power and high energy per pulse.**

These PEFL-KULT lasers provide high quality output beams (diffraction-limited,  $M2 < 1.1$  or near Gaussian,  $M2 < 1.5$ ). Our patented VSP technology insure robustness and high reliability for cost effective solution, without maintenance.

Keopsys offers compact packages ideally design for integration either analogic or digital controls. It is maintenance free and can be operated in harsh environment. These lasers sources are design for industrial solution such as 3D scanning, Wind sensing, supercontinuum generation and telemetry.

### APPLICATIONS



- Telemetry, range-finding
- 3D scanning
- Mapping
- Cloud height measurement
- Wind sensing
- Supercontinuum generation

### 3 Platforms

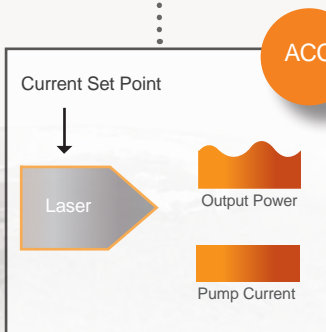
PK 5A/ PK 5D



PK 2A

### Mode of operation

The devices offer one mode of operation :



ACC

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

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1.5 μm ULTRA COMPACT LASER TRANSMITTER

### Optical Specifications @ 25°C

	PEFL-KULT
Mode of operation	Pulsed
Operating wavelength	1545 – 1560 nm *
Energy per pulse	1.5 to 100 μJ
Peak power	100 W to 15 kW
Average power	40 to 1200 mW
Pulse repetition frequency	10 Hz to 1 MHz
Pulse duration (FWHM)	0.5 to 200 ns
Seed tap (Option)	1 m pigtail length, SMF, FC/PC
Pigtail length	30 cm to 1 m
Fiber type	SMF – PANDA - LMA
Polarization	Random or linear
Beam quality, M <sup>2</sup>	1.1 to 1.5
Output termination	FC/APC, ferule APC or Collimator

\* Other wavelength on request

The PEFL series laser are available as OEM module for an easily 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](mailto:websales@keopsys.com)



Keopsys undertakes a continuous 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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