

# PGFL SERIES

## GREEN COMPACT LASER TRANSMITTER



### KEY FEATURES

- Energy per pulse up to 50  $\mu$ J
- Peak power up to 15 kW
- Average power up to 2 W
- Pulse repetition frequency 10 kHz to 200kHz
- Diffraction limited output beam
- Low power consumption
- Compact and rugged package

### Description

**PGFL series green fiber lasers are pulsed laser sources emitting at 532 nm and delivering high peak power pulse in a very compact package.**

The 532 nm series is a green laser based on the combination of a powerful 1.0  $\mu$ m fiber laser and a compact/efficient frequency converter. The output beam is diffraction limited or near gaussian and collimated.

The laser system is delivered with an interface module that allows to drive the laser very easily and to keep the frequency converter at constant temperature.

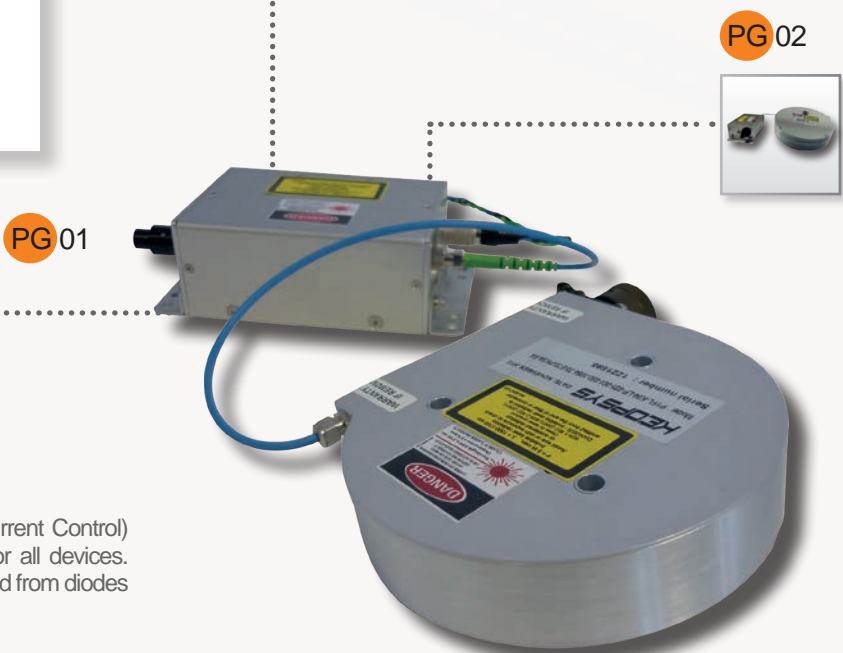
This source is ideal for underwater telemetry or range-finding applications.

### APPLICATIONS



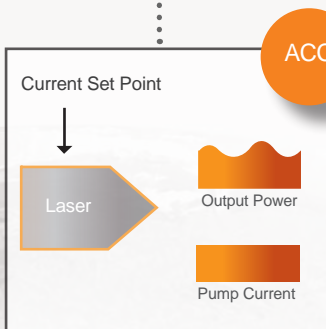
- Environment
- Underwater telemetry
- Underwater range-finding
- 3D scanning
- Mapping

### 2 Platforms



### 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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### GREEN COMPACT LASER TRANSMITTER

#### Optical Specifications @ 25 °C

	PGFL
Mode of operation	Pulsed
Operating wavelength	532 nm
Energy per pulse	From 5 to 40 µJ
Peak power	From 5 to 12 kW
Average power	From 0.25 to 2 W
Pulse repetition frequency	From 10 to 200 kHz
Pulse duration (FWHM)	From 1 to 10 ns
Polarization	Linear
Beam Quality, M <sup>2</sup>	From < 1.1 to <1.4
Output termination	Optical Head with collimated output (1 cm at 60 cm)

The PGFL series lasers are available 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](mailto:websales@keopsys.com)



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



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