

PUFL SERIES

UV ULTRA-COMPACT LASER TRANSMITTER



KEY FEATURES

- Energy per pulse up to 2 μ J
- Peak power up to 2 kW
- Average power up to 100 mW
- Pulse repetition frequency 50 kHz
- Collimated beam with $M^2 < 1.3$
- Low power consumption
- Compact and rugged package

APPLICATIONS



- Aerosol detection
- Fluorescence excitation
- Raman spectroscopy
- Biological experimentation
- Wafer inspection

Description

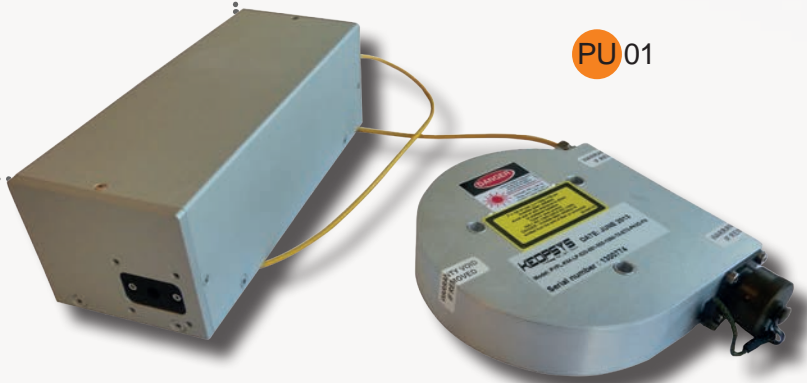
PUFL series UV fiber lasers are pulsed laser sources emitting at 355 nm and delivering high peak power pulse in a very compact package.

The 355 nm series is a UV laser based on the combination of a powerful 1.0 μ m fiber laser and a compact/efficient frequency converter. The output beam is 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.

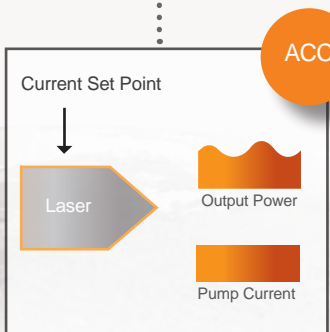
This source is ideal for aerosol detection or biological experimentation applications.

1 Platform



Mode of operation

The devices offer one mode of operation :



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

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Optical Specifications @ 25 °C

	PUFL
Mode of operation	Pulsed
Operating wavelength	355 nm
Energy per pulse	From 1 to 2 μ J
Peak power	Up to 2 kW
Average power	Up to 100 mW
Pulse repetition frequency	50 kHz
Pulse duration (FWHM)	1 ns
Polarization	Linear (PER>17 dB)
Beam Quality, M ²	< 1.3

The PUFL series laser 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



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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