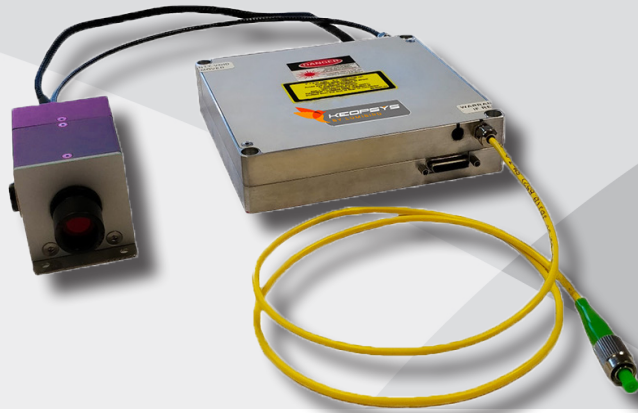


PUFL

Pulsed UV Fiber Laser



PU01D



MAIN FEATURES

- Energy per pulse up to 1.6 μ J
- Peak power up to 1.6 kW
- Average power up to 80 mW
- Pulse repetition frequency 50 kHz
- Free-space output with $M^2 < 1.3$
- Low power consumption
- Compact and rugged package

MAIN APPLICATIONS

- LiDAR
- UNDERWATER SCANNING
- AEROSOL DETECTION
- MATERIALS INSPECTION
- RAMAN SPECTROSCOPY

“

The PUFL series is a range of 355 nm pulsed fiber lasers, delivering high peak power and high energy per pulse in compact module suitable for integration. UV lasers are commonly used for underwater operations in mapping or for materials inspection.

The optical design consists in a 1064 nm fiber laser connected to a high-efficiency 355 nm converter. Compared to other technologies, the innovative optical architecture offers a better electrical-trigger to optical-pulse delay jitter and an excellent pulse duration stability allowing enhanced performance of the user's system.

The laser module incorporates a microcontroller for internal controls, alarms, and RS232 communication, making the laser widely compatible. Pulses are triggered by an external signal supplied by the user system.

”

www.keopsys.com

Many options and configurations are available. Please contact Lumibird to find the best match for your needs and compatibility between options.



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PUFL

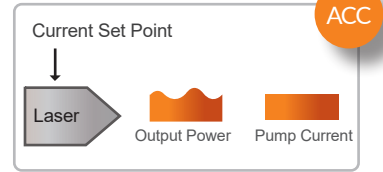
Pulsed UV Fiber Laser



SPECIFICATIONS

	PUFL
Mode of operation	Pulsed
Operating wavelength (nm)	355
Pulse duration (FWHM, ns)	1
Energy per pulse (μ J)	Up to 1.6
Peak power (kW)	Up to 1.6
Pulse repetition frequency (kHz)	50
Average power (mW)	Up to 80
Polarization	Linear, PER > 17 dB
Output termination	Optical head, free space
Beam quality, M^2	< 1.3

Mode of operation



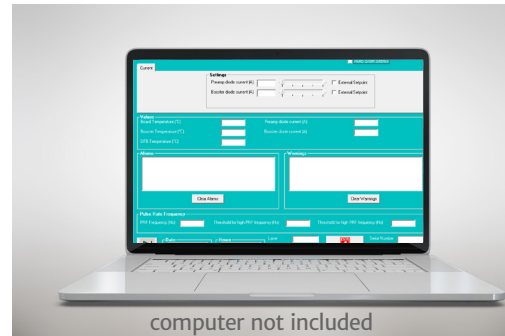
ACC (Automatic Current Control)

EASY TO INTEGRATE !



Control box

- Control box and cables delivered with the module for easy evaluation
- Available as an option



computer not included

Remote control

- RS232 interface
- Serial command set provided for easy integration
- GUI available

Reliability



All our fiber lasers and fiber amplifiers are manufactured according to our ISO certified quality management system, which places the needs and values of customers and partners at the heart of our organization. Throughout the manufacturing process, our components and systems are subjected to rigorous tests and inspections, which guarantees their robustness and reliability in the most demanding environments. Countless units operate continuously without maintenance around the world. The ISO 9001 certificates can be downloaded from our website.



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

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