

Industrial Pulsed Fiber Lasers



V-gen's VPFL lasers are short-pulse, Ytterbium fiber lasers in MOPA configuration.

The system's TTL control interface can be used to operate and tune the various laser parameters (output power, pulse energy, repetition rate and pulse width).

A sealed system in an all-fiber configuration, the VPFL is housed in a robust assembly that meets industrial standards. A reinforced or armored fiber cable delivers the output beam. V-gen also offers output isolators, collimators and focusers as optional units.

General

- » Up to 1 mJ pulse energy
- » Up to 20 Watts average output power
- » Wavelength 1060 - 1080 nm

Main Features

- » 5 - 200 nsec (tunable) pulse width
- » 5 - 100 kHz (tunable) repetition rate
- » Sealed, maintenance-free operation
- » Wall-plug efficiency >10%

Applications

- » Marking
- » Material processing
- » Micromachining
- » Welding
- » Spectroscopy
- » Medical
- » LIDAR
- » Range finding

Specifications

Parameter	Unit	Short Pulse (5 nsec)					Preliminary	CW	
		VPFL-2000	VPFL-5000	VPFL-SP-2000	VPFL-SP-5000	VPFL-10000	VPFL-20000	VCFL-7500	VCFL-15000
Operational mode		Short Pulse						CW	
Wavelength	nm	1060-1080						1060-1080	
Average output power	Watts	2	5	2	5	10	20	7.5	15
Repetition rate	kHz	10-100		50-100		20-100		NA	NA
Pulse width	nsec	100-200		5-50		100-200		NA	NA
Pulse energy (max)	μJ	200	500	40	100	500	1,000	NA	NA
General Parameters									
Operational voltage	VDC	12 VDC <i>(the system includes auto-range AC-DC power supply)</i>							
Dimensions	mm	300 x 120 x 50 <i>(without heat-sink)</i> ; 300 x 120 x 90 <i>(with heat-sink)</i>							
Fiber length	cm	200 <i>(other options available)</i>							
Output fiber collimator	mm	8 mm diameter <i>(other options available)</i>							
Output beam parameters		M ² < 1.5						M ² < 1.1	



Specifications are subject to change without prior notice



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