

Key Features

- Turnkey device
- High average output power, up to 300mW
- Linear polarized output
- 0.1ps pulse width
- RS232 computer interface
- Highly reliable and durable
- Low timing jitter

Benchtop Casing



2U Rackmount Casing



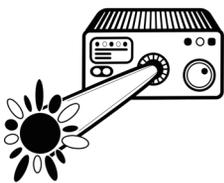
1550nm - Pulsed

Description

Amonics' High Power Femtosecond Fiber Laser (FSFLs) is a passive mode-locked fiber laser which generates soliton pulses without using external clocks. The FSFL features high output power and narrow linewidth with exceptionally reliable performance.

The turnkey microprocessor controlled rackmount FSFL is equipped with alarms and status indicators. An integrated RS232 or Ethernet computer interface provides easy control, diagnostic functions and data acquisition.

Application



- Micro-machining
- 3-D Optical Micro/ Nano Fabrication



- Nonlinear Ultrafast Spectroscopy
- Terahertz Waves Generation
- Nano-Material Spectroscopy



ISO 9001 : 2015
Certificate No.: CC 5346

Our product is manufactured under a HKQAA ISO 9001 certified quality management system. The ISO 9001:2015 certification applies to the Hong Kong production site only.

Specifications

Model	AFSFL	AFSFL-PM
Average Output Power	Min. 100 mW, Min. 200 mW, Min. 300 mW	Min. 100 mW, Min. 200 mW, Min. 300 mW
Pulse Width	100, 300, 600 fs (selectable)	100, 300, 600 fs (selectable)
Laser Wavelength	1535 nm to 1565 nm (selectable)	1535 nm to 1565 nm (selectable)
Repetition Rate	Typ. 10 MHz to 20 MHz	Typ. 10 MHz to 20 MHz
Polarization Extinction Ratio	NA	Typ. 23 dB, Min. 20 dB
Output Power Tunability	10 % to 100 %	10 % to 100 %
Output Isolation	Min. 25 dB	Min. 25 dB
Control Mode	ACC (standard), APC (optional)	ACC (standard), APC (optional)
Optical Fiber	SMF-28	PM 1550 nm Panda fiber

Other output power models available upon request

Option: 1) Linear Polarization
2) Phase Lock Loop

General Parameters

	Value
Operation Temperature	0 to 40 °C
Storage Temperature	-10 to 70 °C
Power Supply	90 – 240 VAC, 47 – 63 Hz
Benchtop Dimensions	260(W) x 330(D) x 120(H) mm
2U Rackmount Dimensions	485(W) x 515(D) x 90(H) mm
Mechanical Safety Control	Key-lock switch, BNC interlock key
Optical Power Monitoring	Output power
Remote Control Port	RS232 (Control software & connection cable included) / Ethernet TCP/IP (Optional)
Protection	Pump laser (TEC) overheat
Optical Termination	Collimator, FC/APC, FC/UPC, SC/APC, SC/UPC

Ordering Information

Product Code	AFSFL(-PM)-aaaa-bbb-cc-d-ee	aaaa : Wavelength in nm bbb : Pulse width in fs cc : Output power in dBm d : B for Benchtop, R for 19 inches Rackmount ee : FA for FC/APC, FC for FC/UPC, SA for SC/APC, SC for SC/UPC, CL for collimator
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Amonics undertakes continuous and intensive product development to ensure its product performance at the highest technical standards. As a result, the specifications in this document are subject to change without notice.

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