

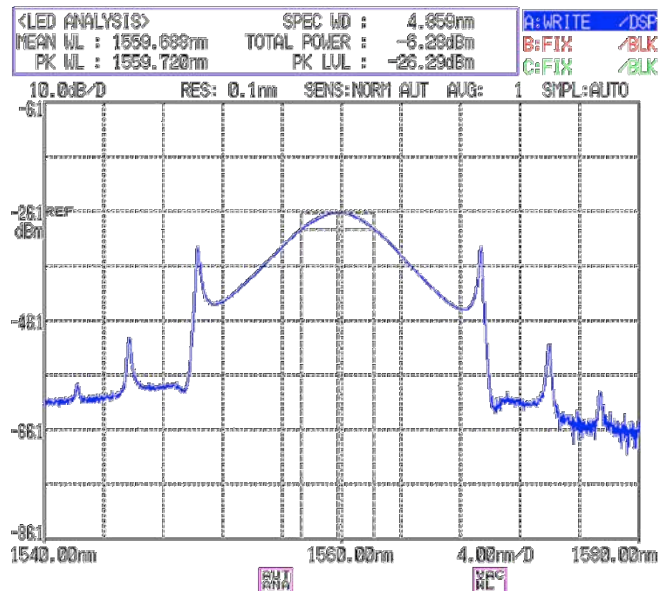
### Applications

- Nonlinear Ultrafast Spectroscopy
- Micro-machining
- Terahertz Waves Generation
- 3-D Optical Micro/nano Fabrication
- Nano-material Spectroscopy



### Description

Amonics' specialized products, high power Femtosecond Fiber Lasers (FSFLs), are passive mode-locked fiber lasers, which generate soliton pulses without using external clocks. The results are FSFLs that possess high output power, narrow linewidth with exceptionally reliable performance. The turnkey microprocessor controlled benchtop FSFLs manage alarms and status indicators. An integrated RS232 or Ethernet computer interface enables easy control, diagnostic functions and data acquisition.



### Key Features

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

### Standard FSFL Specifications

Average Output Power	Min. 1mW	Min. 10mW	Min. 100mW	Min. 200mW
Pulse Width	100, 300, 600fs			
Laser Wavelength	1535 to 1565 (selectable)			
Repetition Rate	20 - 40 MHz (selectable)			
Polarization	Random (for SMF)		Extinction Ratio (Typ. 20dB for PM)	
Output Power Tunability	10% to 100%			
Output Isolation	Min. 25			
Control Mode	ACC (standard)			

\* Other output power models are available upon request

### General Environmental Parameters

Parameter	Unit	Specification
Operation Temperature Range	°C	0 to +40
Storage Temperature Range	°C	-10 to +70
Power Supply	VAC	90 – 240, 47 – 63Hz
Dimensions	mm	485(W) x 515(L) x 85(H)
Control	-	Keylock switch, Pump Current
LCD Display	-	Output power, Pump laser current
Output Monitoring Port	-	Included
Computer Interface	-	RS232 (Labview control software & connection cable included) / Ethernet TCP/IP (Option)
Protection	-	Safety Interlock
Optical Termination	-	Collimator, FC/APC, FC/UPC, SC/APC, SC/UPC
Optical Fiber	-	PM Panda Fiber

### Option:

- APC or AGC Control Mode



Product Code	AFSFL-PM-www-aaa-xx-y-zz	www: Wavelength aaa: Pulse width in fs xx: Output Power in mW y: B for Benchtop case, R for 19" Rackmount case zz: FA for FC/APC, FC for FC/UPC, CL for collimator SA for SC/APC, SC for SC/UPC
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Amonics undertakes a continuous and intensive product development to ensure its products perform to highest technical standards. As a result, the specifications in this document are subject to change without notice.

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