

Applications

- Micro-machining
- Marking
- Scribing
- Fiber Optic Sensing
- Laboratory



Description

Amonics' Fiber Laser (AFL) is a compact standalone turnkey equipment to deliver up to 50W output power and 1mJ pulse energy in 1064nm and 1550nm range under CW or pulse operation. Based on proprietary all fiber design, Amonics fiber laser is maintenance free. No post-installation service is required.

In pulse operation, the laser delivers up to 20kW peak power and adjustable pulse width from 10ns to 1000ns. The pulse repetition rate is triggered by external TTL signal.

Amonics fiber lasers are the ideal candidate for a wide range of industrial applications.

Key Features

- CW and pulse operation
- Up to 1mJ pulse energy
- 10 to 20ns tunable pulse width
- Up to 50W output power
- Optical feedback protection
- Back reflection monitoring
- Turnkey operation
- Maintenance free
- Linear or random polarization
- Highly reliable and durable

Specifications

Parameters	Unit	Specifications
Mode of Operation	-	Pulse or CW
Average Output Power	W	5, 10, 20, 30, 50
Pulse Energy	mJ	0.25, 0.5, 1
Pulse Width	ns	10 to 1000
Repetition Rate	kHz	10 to 100 (external TTL trigger)
Wavelength	nm	1064, 1550 range
Laser Linewidth	nm	Typ. 0.2, Max. 0.5
Polarization	-	Linear or random
Beam Quality M ²	-	Typ. 1.1, Max. 1.2
Isolation	-	Inter-stage and output

General Parameters

Parameters	Unit	Specifications
Operation Temperature	°C	0 to +40
Storage Temperature	°C	-10 to +70
Power Supply	VAC	90 – 240, 47 – 63Hz
Dimensions	mm	3U Rackmount, 450(W) x 615(D) x 150(H)
Control	-	Keylock switch, optical output power
Optical Power Monitoring	-	Output power, Seed power
Remote Control Port	-	RS232, TCP/IP ethernet (optional)
Protection	-	Pump laser (TEC) overheat
Optical Port	-	Main output, Seed laser, Output tap
Output Termination	-	Collimator, Bare fiber



Ordering Information

Product Code	AFL- www - xx - y - zz	www : Wavelength in nm xx : Output power in dBm y : R for 19" Rackmount zz : CL for collimator NC for bare fiber
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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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