High Power CW Ytterbium Doped Fiber Laser

Amonics
Specialist in Optical Amplifiers

1060nm - CW

Key Features

- Turnkey device
- RS232 computer interface
- High output power
- Single mode fiber delivery
- Highly reliability and durable

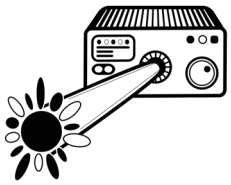
2U Rackmount Casing

Description

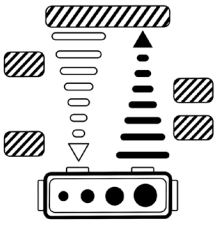
Amonics' Ytterbium-doped Fiber Laser (AYDLS) is designed with high power pump laser and high stability pump combiners. The AYDLS features high output power and narrow linewidth with exceptionally reliable performance. It is ideal for applications with specific stability requirements on output power and linewidth.

The turnkey microprocessor controlled YDLS is available in both benchtop and rackmount casings. It is equipped with alarms and status indicators. An integrated RS232 computer interface provides easy control, diagnostic functions and data acquisition. Available options include single frequency operation and linearly polarized operation.

Application



- Medical Systems
- Industrial Laser



- Fiber Optic Sensing

- Laboratory
- SHG Application

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.

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High Power CW Ytterbium Doped Fiber Laser Specifications

Model	AYDLS	AYDLS-PM
Output Power	1 W, 5 W, 10 W, 20 W	1 W, 5 W, 10 W, 20 W
Center Wavelength	1064 nm ± 1 nm*	1064 nm ± 1 nm*
Laser Linewidth	10 MHz to 100 GHz	10 MHz to 100 GHz
Output Isolation	Min. 20 dB	Min. 20 dB
Polarization Extinction Ratio	NA	Typ. 23 dB, Min. 20 dB
Beam Quality M^2	Typ. 1.1, Max. 1.2	Typ. 1.1, Max. 1.2
Control Mode	ACC, APC(Option)	ACC, APC(Option)
Output Fiber	Hi-1060 or LMA	PM-980 or PM LMA

* Other wavelength or output power models are available upon request

High Power Narrow Linewidth CW Ytterbium Doped Fiber Laser Specifications

Model	AULLD	AULLD-PM
Output Power	1 W, 5 W, 10 W, 20 W	1 W, 5 W, 10 W, 20 W
Center Wavelength	1064 nm ± 1 nm*	1064 nm ± 1 nm*
Laser Linewidth	2 kHz to 10 MHz	2 kHz to 10 MHz
Output Isolation	Min. 20 dB	Min. 20 dB
Polarization Extinction Ratio	NA	Typ. 23 dB, Min. 20 dB
Beam Quality M^2	Typ. 1.1, Max. 1.2	Typ. 1.1, Max. 1.2
Control Mode	ACC, APC(Option)	ACC, APC(Option)
Output Fiber	Hi-1060 or LMA	PM-980 or PM LMA

* Other wavelength or output power models are available upon request

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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 [Output power <5W]
2U Rackmount Dimensions	485(W) x 515(D) x 90(H) mm or 485(W) x 360(D) x 90(H) mm [Output power >5W]
3U Rackmount Dimensions	485(W) x 615(D) x 150(H) mm [Output power >5W]
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	FC/APC [Output power <2W] or Collimator, Bare fiber [Output power >5W]

Ordering Information

Product Code	AYDLS(-PM)-aaaa-bb-c-dd AULLD(-PM)-aaaa-ee-bb-c-dd	aaaa : Wavelength in nm bb : Output power in dBm c : B for Benchtop, R for 19 inches Rackmount dd : FA for FC/APC, CL for collimator, NC for bare fiber ee : Laser linewidth in kHz/MHz

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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