

# High Power 1064nm Narrow Linewidth Fiber Laser

## Key Features

- Narrow linewidth
- Low phase noise
- Ultra low RIN
- High output power, up to 2W
- RS232 remote control
- Ultra stable
- Linear polarized output (Option)
- Wavelength tunability (Option)

**AULLD Series Module Casing**

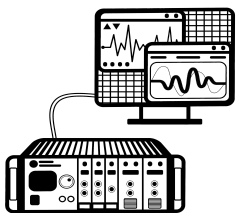


1060nm - CW

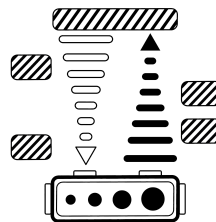
## Description

Amonics' high power 1064 nm narrow linewidth fiber lasers are with very narrow linewidth, high power stability, and low RIN noise. The standard model of 1064 nm narrow linewidth fiber laser delivers up to 2 Watt output, with linewidth  $< 15$  kHz and RIN noise  $< -135$  dB/Hz for frequency below 100 kHz. Other linewidths can be customized according to customers requests. The applications of the narrow linewidth laser include free spacing sensing, 532 nm second harmonic laser generation, and experiments in nonlinear fiber optic.

## Application



- Test & Measurement



- Brillouin distributed sensing
- Interferometric fiber optics sensing
- LIDAR



- Seed laser sources



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

# High Power 1064nm Narrow Linewidth Fiber Laser

## Specifications

Model	AULLD series
Laser Wavelength	1062 to 1066 nm, CW @ rated power
Optical Output Power	13 dBm, 17 dBm, 20 dBm, 23 dBm, 27 dBm, 30 dBm, 33 dBm
Linewidth FWHM, Lorentzian	Max. 15 kHz CW @rated power
Optical Isolation	Min. 25 dB, under operation temp.
Side-mode Suppression Ratio	Min. 35 dB, Typ. 45dB, CW @rated power
Relative Intensity Noise	Shot noise limited @ frequency Min. 100 kHz
Output Power Stability	Max. $\pm 0.2$ dB (within 8 hrs), Max. $\pm 0.03$ dB (within 10 mins) CW @ rated power and constant environment temperature
Wavelength Stability	Max. $\pm 0.005$ nm (within 8 hrs), Max. $\pm 0.001$ nm (within 10 mins) CW @rated power and constant environment temperature

## General Parameters

	Value
Operation Temperature	0 to 40 °C
Storage Temperature	-10 to 70 °C
Power Supply	+12 $\pm$ 0.25 VDC
Module Dimensions	300(W) x 250(D) x 70(H) mm
Optical Power Monitoring	Output power
Remote Control Port	DB-9 female (RS232)
Protection	Pump laser (TEC) overheat
Optical Connector	FC/APC, FC/UPC, SC/APC, SC/UPC, bare fiber
Optical Fiber	PM 980, HI-1060 (optional)

## Ordering Information

Product Code	AULLD-aa-bbbb-cc-dd-M-ee	aa : Default (or unspecified) for single mode, PM for polarization maintaining bbbb : Wavelength in nm cc : Laser linewidth in kHz dd : Output power in dBm ee : FA for FC/APC, FC for FC/UPC, CL for collimator, SA for SC/APC, SC for SC/UPC, 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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