

YLR-LP, 200-500 W

Ytterbium Linearly Polarized CW Lasers

Linear Polarization



FEATURES

- ▶ Linear Polarization
- ▶ Wall-plug Efficiency >35%
- ▶ Excellent Beam Quality
- ▶ Air Cooled
- ▶ Compact and Low Cost
- ▶ Industrial Performance



APPLICATIONS

- ▶ Scientific Applications
- ▶ Biomedical Applications
- ▶ Optical Trapping / Tweezers
- ▶ Optical Metrology

YLR-LP is a series of diode pumped single-mode linearly polarized CW Ytterbium fiber lasers with a unique combination of high power, ideal beam quality, fiber delivery and ultra-high wall-plug efficiency. The reliability of these lasers is unmatched by any solid state or gas laser system. Direct analog power modulation, low amplitude noise, high stability and ultra-long pump diode lifetime complete an impressive list of advantages of this fiber laser system. YLR-LP series is ideally suited for scientific applications and integration into biomedical instruments.

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Optical Characteristics	YLR-200-LP	YLR-300-LP	YLR-400-LP	YLR-500-LP
Central Wavelength Range, nm	1070 ±10*			
Central Wavelength Accuracy, nm	±1			
Mode of Operation	CW/modulated			
Modulation Frequency, kHz	0-50			
Maximum Average Power**, W	200	300	400	500
Power Tunability, %	10-100			
Power Stability**, %	±2			
Optical Noise***, % RMS	<2			
Polarization****	Linear, > 50:1			
Beam Quality, M ²	<1.1			

* Other wavelengths in 1030-1080 nm range are available upon request.

** Lower power models from 1 to 100 W are available.

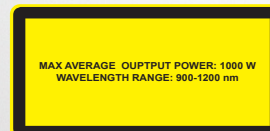
*** Over 4 hours, T=const

**** Better extinction ratio is available upon request

General Characteristics	YLR-200-LP	YLR-300-LP	YLR-400-LP	YLR-500-LP
Dimensions, mm	448 × 502 × 177			448 × 502 × 266
Weight, kg	< 30			< 50
Cooling	Air Cooled			
Supply Voltage, single-phase 50 - 60 Hz VAC	110 - 220			200 - 240
Power Consumption, W	700	900	1200	1500



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