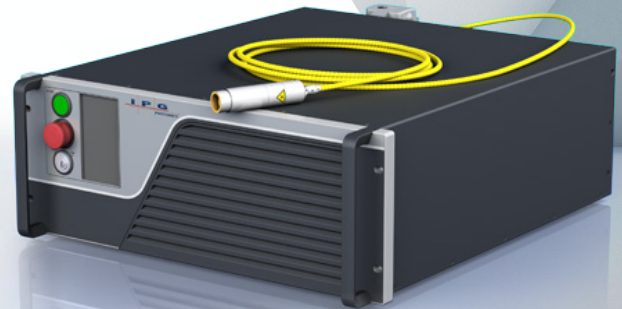


YLR-SF, 1-100 W

Ytterbium Single-frequency CW Lasers

Narrow Linewidth



FEATURES

- ▶ Wavelength 1.064 nm
- ▶ Single Frequency
- ▶ Excellent Beam Quality
- ▶ Air Cooled
- ▶ High Wall-plug Efficiency
- ▶ Industrial Performance
- ▶ Compact and Low Cost



APPLICATIONS

- ▶ Holography & Interferometry
- ▶ Optical Tweezers
- ▶ High Resolution CW Spectroscopy
- ▶ Biomedical Instrument Integration

YLR-SF is a series of single frequency diode pumped single-mode CW Ytterbium fiber lasers with a unique combination of high power, ideal beam quality, fiber delivery and 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-SF series is ideally suited for scientific applications and integration into biomedical instruments.

YLR-SF, 1-100 W

Ytterbium Single-frequency CW Lasers

Optical Characteristics	1-SF	5-SF	10-SF	20-SF	30-SF	50-SF	100-SF
Central Wavelength, nm				1064			
Central Wavelength Accuracy, nm				± 0.5			
Linewidth FWHM, kHz				15 kHz typ., 50 kHz			
Mode of Operation				CW			
Nominal Average Power, W	1	5	10	20	30	50	100
Adjustable Output Power Range, %	10-100		1-100		5-100		
Long-Term Power Stability, %				0.5 typical, 1.5 maximum			
Relative Intensity Noise, dB/Hz				<-140 (ν >10 kHz)			
Polarization				Random			
Beam Quality, M ²				≤1.15, typ. 1.08			

General Characteristics	1-SF	5-SF	10-SF	20-SF	30-SF	50-SF	100-SF
Console Dimensions (W × D × H), mm	448 × 403 × 132			448 × 504 × 177			
Weight, kg	21 typical			30 typical			
Cooling				Air Cooled			
Supply Voltage, VAC				single-phase 50-60 Hz, 100-240			
Power Consumption, W	<150	<185	<200	<220	<250	<300	<500



+1 (508) 373-1100;
IPGPhotonics.com/contact
www.ipgphotonics.com

MAX AVERAGE OUTPUT POWER: 200 W
 MAX. PEAK OUTPUT POWER: 250 kW
 WAVELENGTH RANGE: 900-1200 nm

DANGER - INVISIBLE LASER
 RADIATION AVOID EYE OR SKIN
 EXPOSURE TO DIRECT OR
 SCATTERED RADIATION
 CLASS 4 LASER PRODUCT
 IEC 60825-1:2014