

YLPP-R Series

Ytterbium Picosecond Fiber Lasers

10-20 ps Fiber Laser for Precision Material Micromachining

NEW PRODUCT



Applications

- ▶ Precision Micromachining
- ▶ Texturing
- ▶ Solar/ Photovoltaic
- ▶ Ablation
- ▶ Marking



Features

- ▶ Pulse Energy up to 50 μ J
- ▶ Output Power up to 100 W
- ▶ High Peak Power up to 5 MW
- ▶ Pulse Duration of 10-20 picoseconds

IPG's **NEW** YLPP-R picosecond fiber lasers provide high peak power with scalable average output power up to 100 W and short pulse duration of 10-20 ps at full operational frequency range of 20-2000 kHz. The all fiber format allows for the adjustment of peak power and/or pulse repetition rate without affecting any of the output beam parameters. IPG's novel fiber laser is much more efficient and compact than conventional lasers now on the market. It is ideal for applications in micromachining, solar/photovoltaic arena, via hole drilling, resistor trimming and marking of transparent materials. Higher output powers are planned.

YLPP-R Series

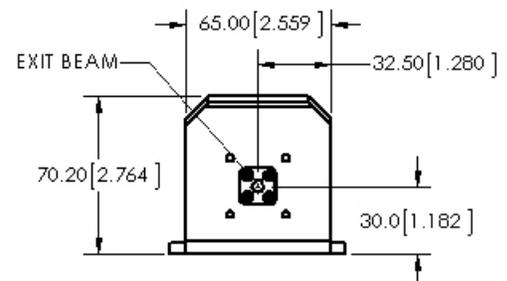
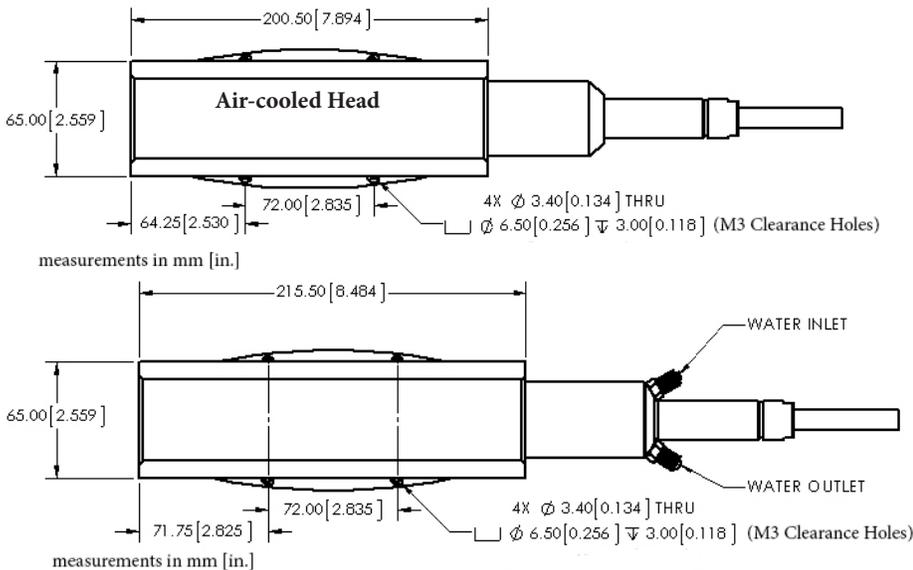
Ytterbium Picosecond Fiber Lasers

Optical Characteristics

	YLPP-50-10-30-R	YLPP-50-10-50-R	YLPP-50-10-100-R
Wavelength, nm		1030	
Average Power, W	30	50	100
Pulse Energy, μ J		50	
Pulse Duration, ps		10-20	
Peak Power, MW		up to 10	
Repetition Rate, kHz	20-600	20-1000	20-2000
Beam Quality, M^2		< 1.8	

General Characteristics

	YLPP-50-10-30-R	YLPP-50-10-50-R	YLPP-50-10-100-R
Control Unit Dimensions, mm	448 x 418 x 132	448 x 418 x 132	448 x 580 x 132
Optical Head Dimensions, mm	65 x 201 x 70	65 x 216 x 70	65 x 216 x 70
Cooling	Air-cooled	Water-cooled	Water-cooled
Supply Voltage, VAC		100-240, 50/60 Hz	
Typical Power Consumption, W	150	250	500



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The Power to Transform®

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