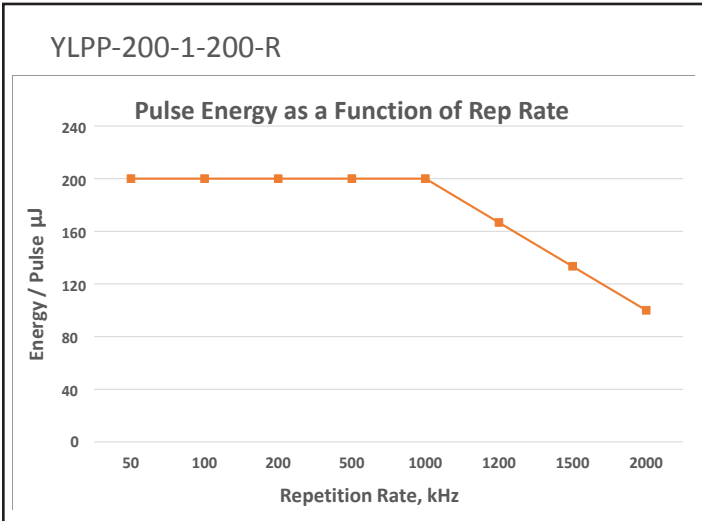




YLPP-200-1-200-R

Ytterbium Picosecond Hybrid Laser

PRELIMINARY



Applications

- ▶ Precision Micromachining
- ▶ Microdrilling
- ▶ Thin Film Ablation
- ▶ Photomask Cutting
- ▶ Medical Device Manufacturing
- ▶ LED Dicing
- ▶ Solar Cell Structuring
- ▶ Fine Tube Cutting
- ▶ Glass, Silicon, Ceramics, Polymer and Composite Material Processing

Features

- ▶ Wavelength 1030 nm
- ▶ Output Power up to 200 W
- ▶ Pulse Energy up to 200 μ J
- ▶ High Peak Power up to 200 MW
- ▶ Pulse Duration Options 1-5 ps
- ▶ Repetition Rate up to 2 MHz
- ▶ Low Maintenance
- ▶ Rugged Design

IPG Photonics NEW **YLPP-200-1-200** hybrid-fiber picosecond laser provides high peak power with scalable average output power of 200 W and customer selected pulse durations in the range of 1 to 5 ps at full operational repetition rate range of 50-2000 kHz.

The fiber design 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, compact and easy to integrate into OEM equipment than conventional lasers now on the market. It is ideal for applications in precision micromachining.

The excellent beam quality, ultrashort pulse duration and high pulse energy combine to provide peak power densities suitable for micromachining virtually any material: metal, glass, ceramic, silicon, plastics. The ultrashort pulse duration results in a very small heat affected zone.

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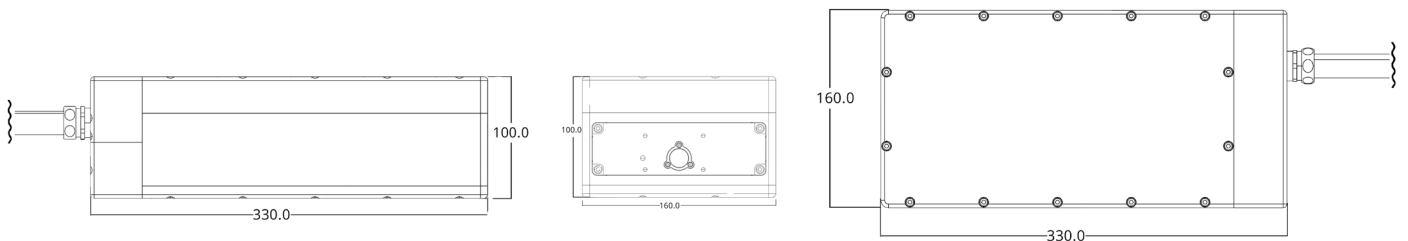
Optical Characteristics*

Wavelength, nm	1030
Max. Average Power, W	Up to 200
Pulse Energy, μ J	Up to 200
Pulse Duration, ps	1-5
Peak Power, MW	Up to 200
Repetition Rate, kHz	50-2000
Beam Quality, M^2	<1.5 (1.3 Typ.)

*Customer can select models with specified power, pulse energy and pulse durations in 1 to 5 ps range. Shorter pulse durations and pulse energies are available upon request.

General Characteristics

Control Unit Dimensions (W x D x H), mm	448x580x133
Optical Head Dimensions (W x D x H), mm	110x330x160
Cooling	Water-cooled
Supply Voltage, VAC	100-240, 50/60 Hz
Power Consumption, W	<1000



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MAX. AVERAGE OUTPUT POWER: 400 W
 MAX. PEAK OUTPUT POWER: 400 MW
 PULSE DURATION: 1-5 ps
 PULSE REPETITION RATE: 50-2000 kHz
 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

The Power to Transform®