



YLPP-100-70-50-M

Ytterbium Picosecond Fiber Laser

NEW PRODUCT



Applications

- ▶ Materials Processing
- ▶ Micromachining
- ▶ Solar/Photovoltaic
- ▶ Marking
- ▶ Texturing
- ▶ Ablation
- ▶ Scribing



Features

- ▶ 1060 nm
- ▶ Pulse Energy over 100 μ J
- ▶ Pulse Duration 70 ps
- ▶ High Peak Power up to 1 MW
- ▶ Repetition Rate up to 1.5 MHz
- ▶ Direct External Triggering
- ▶ Negligible Jitter <20 ps
- ▶ Rugged Design

IPG Photonics' NEW YLPP Series picosecond fiber lasers provide high peak power with scalable average output power up to 50 W, short pulse duration <70 ps at full operational frequency range of 10-1500 kHz. The all fiber format allows for the adjustment of pulse energy 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 and is ideal for applications in the solar/photovoltaic arena, resistor trimming and marking of transparent materials. The ultrashort pulse duration and high peak power result in a very small heat affected zone.

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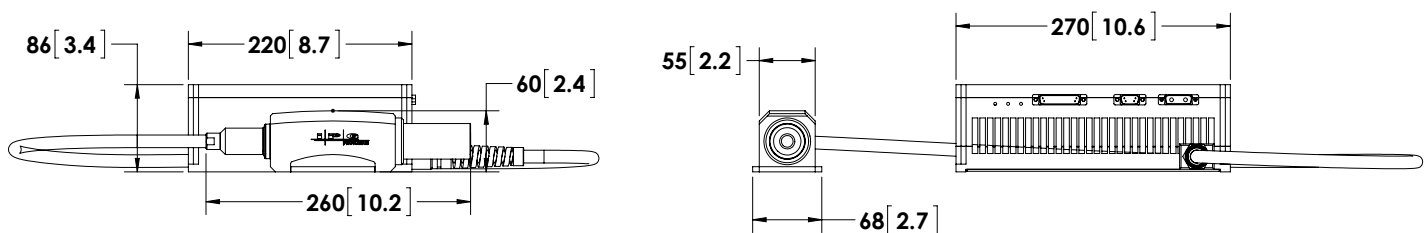
Ytterbium Picosecond Fiber Laser

Optical Characteristics

Wavelength, nm	1060
Average Power, W	50
Pulse Energy, μ J	100
Pulse Duration, ps	70
Peak Power, MW	1
Repetition Rate, kHz	10-1500
Beam Quality, M^2	<1.6

General Characteristics

Module Dimensions (W x D x H), mm	270 x 220 x 86
Optical Head Dimensions (W x D x H), mm	55 x 260 x 60
Cooling	Air-cooled
Supply Voltage, VDC	24
Power Consumption, W	230



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MAX. AVERAGE OUTPUT POWER: 100 W
 MAX. PEAK OUTPUT POWER: 2 MW
 PULSE DURATION: 70 ps
 PULSE REPETITION RATE: 10-1500 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®