



# YLR-3000-MM

## Ytterbium Multi-mode Fiber Laser

**NEW PRODUCT**

Output Power up to 3000 W



### Applications

- ▶ 2D and 3D Cutting of Metals
- ▶ Welding
- ▶ Cutting High Reflectivity Metals
- ▶ Heat Treating
- ▶ Drilling
- ▶ Additive Manufacturing

### Features

- ▶ Any Power up to 3 kW
- ▶ Excellent Beam Parameter Product
- ▶ Constant BPP over Entire Power Range
- ▶ Small Focus over Large Working Distance
- ▶ Excellent Beam Parameter Product
- ▶ Record Wall-plug Efficiency
- ▶ Modulation up to 50 kHz
- ▶ Record Reliability
- ▶ Maintenance-free Operation
- ▶ Compact, Rugged and Easy to Install
- ▶ Wide Range of Beam Delivery Option

**IPG Photonics' NEW YLR-3000** is the world smallest 3 kW CW fiber laser, offered with a unique combination of high power, ideal beam quality, fiber delivery and high wallplug efficiency. The YLR-3000 is as a cost effective, adaptable solution for a clean room system or for integration into a production line. The high brightness YLR-MM lasers feature standard 50  $\mu\text{m}$  core feeding fiber high with beam parameter product.

# YLR-3000-MM

## Ytterbium Multi-mode Fiber Laser

### Optical Characteristics

Central Wavelength*, nm	1070 ±10
Mode of Operation	CW/Modulated
Modulation Frequency, kHz	0-50
Max. Average Power, W	3000
Power Stability, %	±0.5
Power Tunability, %	10-100
Output Fiber Core Diameter, µm	50, 100 and 200
Beam Parameter Product, mm × mrad	2.5, 5, 10

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

### General Characteristics

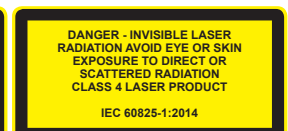
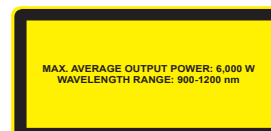
Cabinet Dimensions (W × D × H), mm	448 × 800 × 177
Weight, kg	<80
Cooling	Water
Supply Voltage, 3-phase, 50/60 Hz, VAC	400-480 VAC

**YLR-3000-MM** laser is equipped with a standard 50 µm feeding fiber to HLC-8 connector. Additional options include 100 or 200 µm diameters to the HLC-8 connector or 50, 100 or 200 µm to an affixed collimator. Focal lengths at 20, 38 or 53 mm are available. IPG manufactures a complete suite of optical beam delivery components including delivery fiber and optics, collimators, beam couplers, switches and sharers, and processing heads and scanners, as well as process control and tooling solutions. Interchangeable collimators and processing heads connect easily to the HLC-8.

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