

YLR-MM FIBER LASER 2012 SERIES



The Power to Transform[®] using YLR Multi-mode Rack Mountable Fiber Laser

**NEW
PRODUCT**

IPG's YLR Series represents a new generation of diode-pumped CW Ytterbium fiber laser systems of near infrared spectral range (1060-1080 nm) with a unique combination of high power, ideal beam quality, fiber delivery and high wall-plug efficiency.

The YLR Series features a wide selectivity of operating wavelengths, ultra-low amplitude noise, high stability and ultra-long pump diode lifetime. Configurations include air- or water-cooled: air-cooled up to 600 W and the compact water-cooled unit powers up to 1 kW. Both options feature redesigned control electronics with extended functionality.

Features:

- 30% Wall-plug Efficiency
- Air- or Water-cooled Versions
- Maintenance-free Operation
- Multi-mode Fiber Delivery
- Internal Pulse Generator

Typical Applications:

- Fine Cutting
- Sintering
- Engraving
- Welding





YLR-MM Series YLR-20-1000 CW Multi-mode Rack Mountable Fiber Lasers

YLR-100-AC-MM
YLR-100-WC-MM

YLR-300-AC-MM
YLR-300-WC-MM

YLR-500-AC-MM
YLR-500-WC-MM

YLR-1000-MM-Y12

1.0 Optical Characteristics

Mode of Operation	CW			
Polarization State	Random			
Nom. Power, W	100	300	500	1000
Max. Modulation Frequency, kHz	50			5
Emission Wavelength, nm	1070			
Output Power Stability, %	±0.5			
OutputFiber, um/BPP, mm x mrad	50 / 2 100 / 5 200 / 10			

2.0 General Characteristics

Cooling Method	Forced Air/ Water			Water
Dimensions W x D x H, mm	AC* WC	3 RU 19", 448 x 394 x 133 3 RU 19", 448 x 580 x 133	4 RU 19", 448 x 500 x 177 3 RU 19", 448 x 580 x 133	6 RU 19", 448 x 497 x 266 3 RU 19", 448 x 580 x 133 4 RU 19", 448 x 680 x 177
Weight, kg	AC* WC	25 30	30 30	50 30 50
Operating Voltage, V AC	100-240, 50/60 Hz		200-240, 50/60 Hz	
Power Consumption, W	400		1000	1600 3200

* AC (Air-cooled)
WC (Water-cooled)

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