

TLR-200

Thulium CW Fiber Laser

NEW PRODUCT



Applications

- ▶ Medical Treatment
- ▶ Medical Surgery
- ▶ Plastic Materials Processing
- ▶ Other Non-metal Materials Processing
- ▶ Solid State IR Laser Pumping
- ▶ Pollution Control



Features

- ▶ Compact Size
- ▶ High Wall-plug Efficiency
- ▶ Beam Quality $M^2 < 1.1$ for Single-mode Version
- ▶ Wide Selection of Wavelengths
- ▶ Advantage over CO₂ & Ho:YAG
- ▶ Cost-effective, Compact OEM Solution

IPG Photonics' Thulium Fiber Laser Systems are developed specifically to meet the growing demands of the industrial, medical and R&D markets for high power, compact, efficient, wavelength-selectable, single-mode CW sources of the spectral range of 1800 to 2100 nm. First manufactured in 1999, these laser systems have been field tested and deployed in a variety of R&D and medical applications. Now with higher powers and new options, the TLR Series provides the ideal solution for both laboratory, medical and industrial market segments.

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Optical Characteristics

Central Wavelength Range ¹ , nm	1900-2000, typ. 1940
Linewidth FWHM, nm	0.7
Mode of Operation	CW/ Modulated
Modulation Frequency, kHz	up to 1
Average Power, W	200
Power Tunability, %	10-100
Power Stability ² , %	±1
Optical Noise ³ , % RMS	1
Fiber Options	Single-mode, 50 μm, 100 μm
Beam Quality (Single-mode), M ²	TEM ₀₀ , <1.1

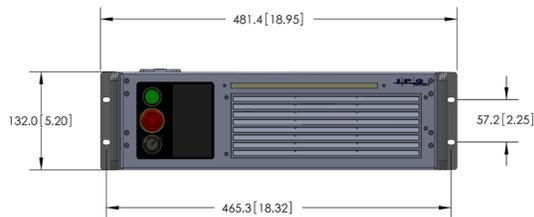
¹ Custom central wavelengths are available upon request

² Over 4 hours, T=const

³ 10 kHz - 20 MHz

General Characteristics

Dimensions, mm	448 x 677 x 177
Cooling	Water-cooled
Supply Voltage, VDC	200-240, 50-60 Hz
Power Consumption, W	2000



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