

ELS-2000

High Power Erbium Fiber Laser



Applications

- ▶ Low Loss Power Transmission
- ▶ Research
- ▶ Medicine



Features

- ▶ Mode of Operation CW
- ▶ Output Power Up to 2000 W
- ▶ Central Wavelength 1567 nm
- ▶ Beam Parameter Product <4.5
- ▶ Power Stability <2%
- ▶ Linewidth <2 nm



IPG's new high power CW erbium fiber laser has a central wavelength of 1567 nm and an output power of up to 2000 W. Featuring a power stability of $\pm 2\%$ and a linewidth of <2 nm. Available for research, materials processing and low loss power transmission applications, IPG's high power erbium lasers open up new exciting areas of applications development.

In the 1500 nm wavelength region, only IPG Photonics can bring you the broad range of devices, from lasers to amplifiers and from tunable lasers to broadband sources, in a variety of powers and configurations. Our advanced fiber devices are a quantum leap forward providing the best in diode-pumped solid state reliability and performance. With thousands of our units in the field, you can be assured that IPG products are proven and reliable for your demanding application.

"Eye-safe" operation generally means that the laser radiation is in the wavelength range that is strongly absorbed in the eye's cornea and lens and therefore cannot reach the significantly more sensitive retina. Nevertheless, IPG recommends that the end user consider all safety precautions required for the laser type, medium and classification. Appropriate eyewear must be worn and laser safety procedures must be followed.

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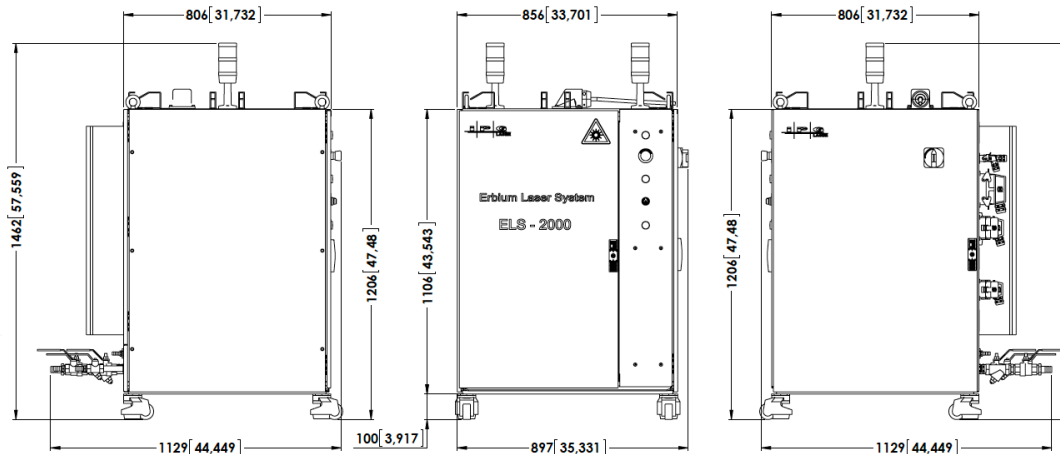
Optical Characteristics

Wavelength, nm	1567
Mode of Operation	CW/ Modulated
Modulation Frequency, kHz	<1
Max. Average Power, W	2000
Power Tunability, %	10-100
Power Stability, %	±2
Beam Parameter Product, mm × mrad	<4.5 @ 100 μm feeding fiber

*Over 4 hours, T=const.

General Characteristics

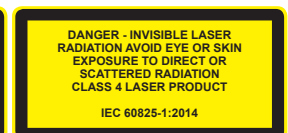
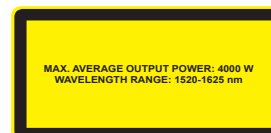
Cabinet Dimensions (W × D × H), mm	856 x 806 x 1206
Weight, kg	350
Supply Voltage, VAC	400-480 3-phase, 50-60 Hz
Wall-plug Efficiency, %	≥18



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