

ELPF-5-500-10-R

Erbium Femtosecond Fiber Laser

NEW PRODUCT



Applications

- ▶ Ophthalmology
- ▶ Life Sciences
- ▶ Precision Micromachining



Features

- ▶ Eye-safe Wavelength
1.55 μm
- ▶ Output Power up to 10 W
- ▶ Peak Power up to 10 MW
- ▶ Pulse Width 500 fs
- ▶ Pulse Energy 5 μJ
- ▶ Repetition Rate
20-2000 kHz
- ▶ Beam Quality $M^2 < 1.4$
- ▶ Telecom Reliability
- ▶ Compact and Low Cost
- ▶ Industrial Performance

IPG Photonics' NEW ELPF erbium 1.55 μm femtosecond fiber laser provides high peak power with scalable average output power of 10 W, short pulse duration of 500 fs at full operational repetition rate range of 20-2000 kHz. Based on IPG's pioneering highly efficient and reliable fiber laser technology, ELPF lasers feature a super-compact lightweight optical head, connected with a fiber cable to a small air-cooled control module. The all fiber format allows for adjustment of peak power and/or pulse repetition rate without affecting output beam parameters. IPG's novel fiber laser is much more efficient and compact than conventional lasers now on the market. It addresses applications in ophthalmology, life sciences and micromachining.

ELPF-5-500-10-R

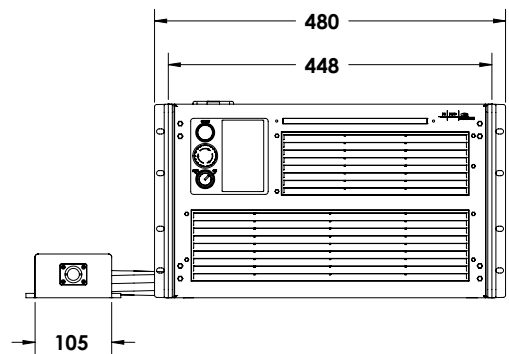
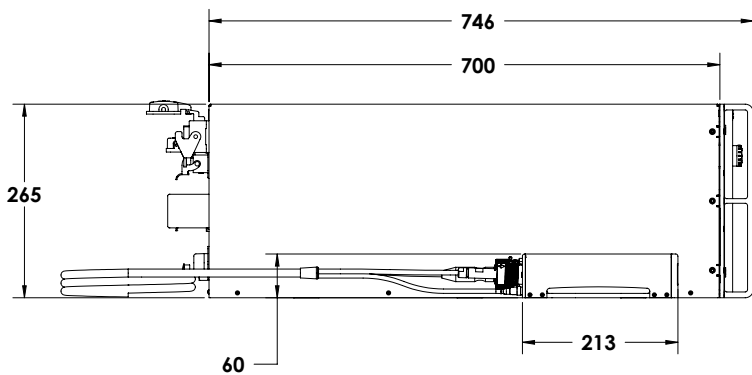
Erbium Femtosecond Fiber Laser

Optical Characteristics

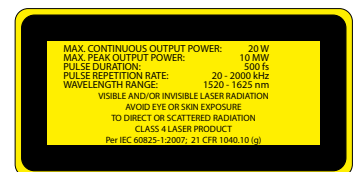
Wavelength, nm	1550
Average Power, W	10
Pulse Energy, μ J	5
Pulse Duration, fs	500
Peak Power, MW	up to 10
Repetition Rate, kHz	20-2000
Beam Quality, M^2	<1.4

General Characteristics

Control Unit Dimensions, mm	448 x 418 x 133
Optical Head Dimensions, mm	370 x 82 x 60
Cooling	Air-cooled
Supply Voltage, VAC	100-240, 50-60 Hz
Power Consumption, W	50



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