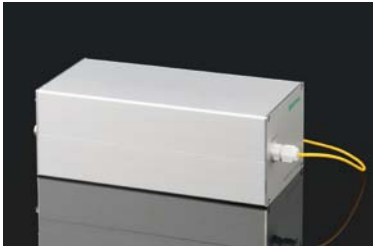


# LightWire EO-FP200

## COMPACT PICOSECOND FIBER LASER



- Pulse energy up to 100 nJ
- Pulse duration <8 ps
- Spectral bandwidth <0.4 nm
- Integrated fiber pulse picker for flexible repetition rate control (30 kHz – 30 MHz, burst mode available)

### APPLICATIONS

- Seeding solid state amplifiers
- Ultrafast spectroscopy and microscopy

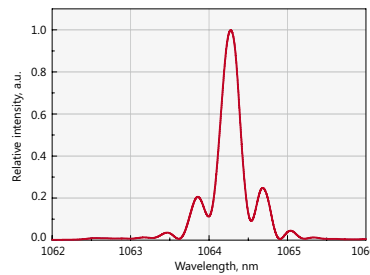
LightWire EO-FP200 is the highest power version in FP family. Integrated pulse picker and control of nonlinearity allows to achieve transform limited pulses with the energy up to 100 nJ directly from the fiber making this model perfect choice for seeding linear Nd doped solid state am-

plifiers. Due to high peak power (12 kW) of the emitted picosecond pulses, FP200 alone or with an optional harmonic module can be also used as a source for ultrafast metrology applications like gated Raman spectroscopy and fluorescence life-time measurements.

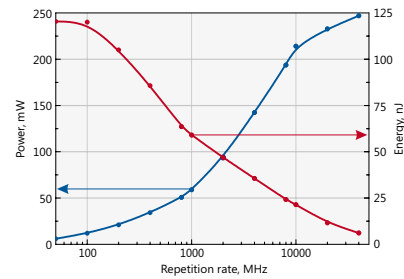
### SPECIFICATIONS \*

Model	LightWire EO-FP200
Central wavelength	1064 nm tunable $\pm 0.2$ nm
Pulse duration	< 9 ps
Spectral bandwidth	< 0.4 nm
Pulse repetition rate	30 kHz – 30 MHz
Output power	> 200 mW at 10 MHz > 50 mW at 1 MHz > 10 mW at 100 kHz
Pulse energy	> 100 nJ at repetition rate of < 200 kHz
Polarization	linear, >100:1 extinction
Optical output	0.3 m fiber with FC/APC connector and collimator
Beam quality	$M^2 < 1.1$
Laser head dimensions (L x W x H)	228x104x85 mm
Control unit dimensions (L x W x H)	271x186x152 mm
Weight (laser head)	< 3 kg
Power supply	100–240 V, 50–60 Hz AC
Operating conditions	10–30 °C, humidity – not condensing

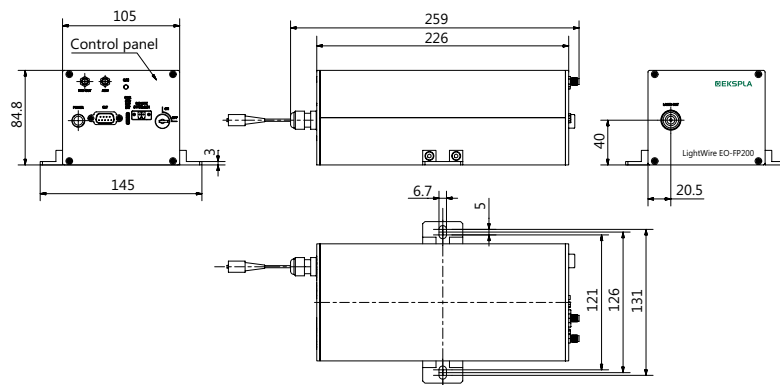
\* Due to continuous improvement all specifications are subject to change without notice.



Typical spectrum from EO-FP200 laser at pulse energy of 100 nJ. Central wavelength can be fine-tuned  $\pm 0.2$  nm



Typical dependence of average power (blue curve) and pulse energy (red curve) on the repetition rate for EO-FP200 laser



Technical drawing of the laser head of EO-FP200 laser

### RELATED PRODUCTS

Laser Safety Eyewear  
See page 1.16.



Visualizers  
See page 1.16

