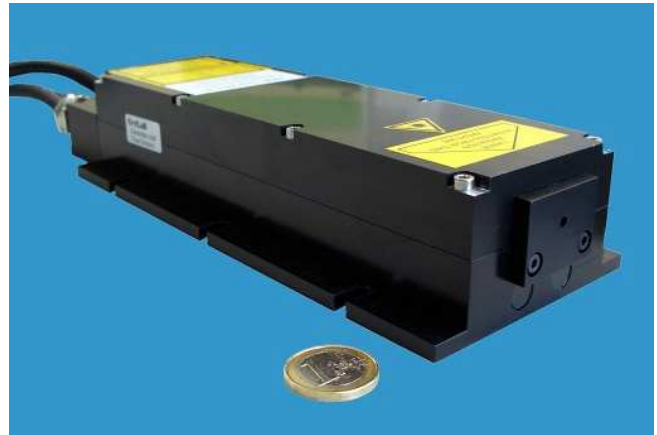


FDSS 532-150

Diode pumped passively Q-switched solid state laser

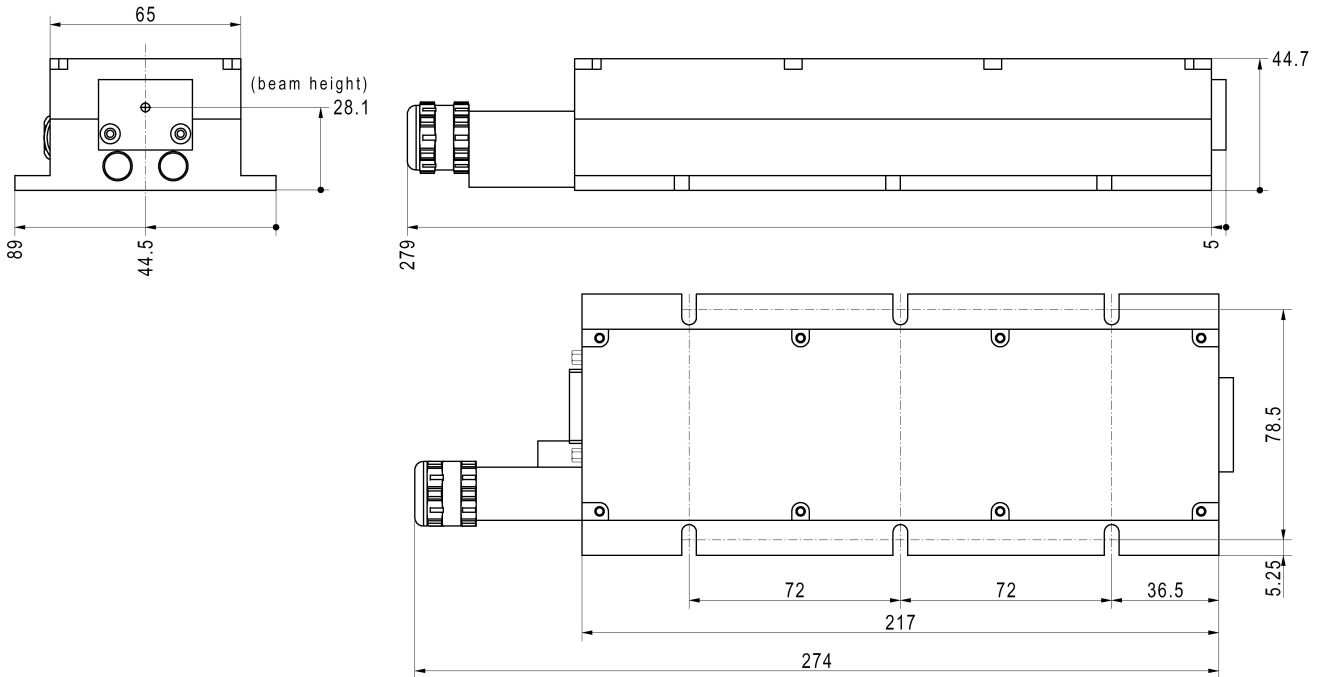
- 532 nm
- single pulse
- 1.1 - 1.5 ns
- 1 – 100 Hz (up to 1 kHz optional)
- > 150 µJ



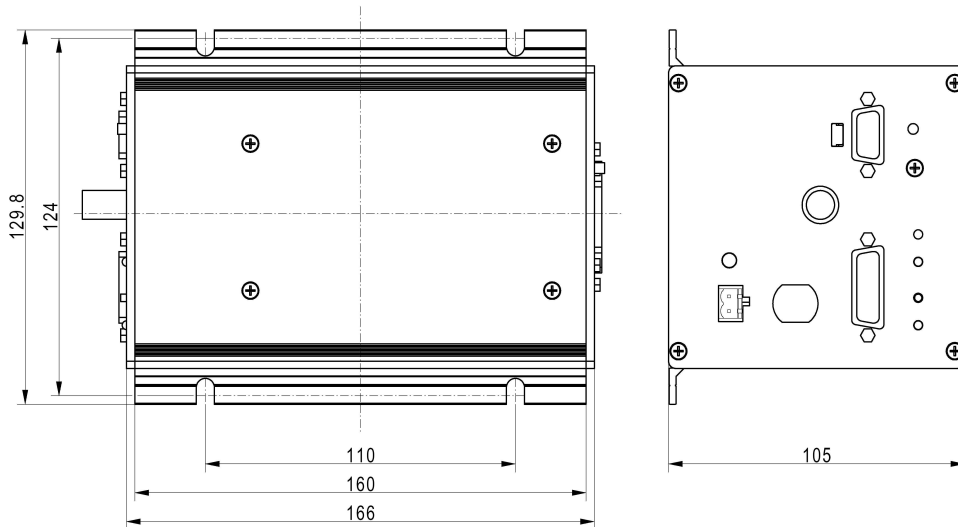
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Optical Data	Wavelength	532 nm
	Spatial Mode	TEM ₀₀
	M ²	< 1.5
	Beam Divergence (full angle)	< 5.5 mrad
	Beam Ellipticity	< 2:1
	Waist Diameter	280 ± 80 µm (located at about 110mm inside the laser head)
	Beam Diameter	500 ± 150 µm (at laser exit)
	Peak Power	100 kW - 140 kW @ 1 - 100 Hz
	Pulse Energy	> 150 µJ @ 1 - 100 Hz (> 50µJ @ 1kHz option)
	Pulse Repetition Rate (with external trigger)	1 - 100 Hz
	Pulse Width (FWHM)	1.1 - 1.5 ns
	Polarization Ratio	> 100:1, vertical
	Long term pulse energy stability (6 hrs)	< ± 2 %
Pulse-To-Pulse Stability	< 1% rms (of pulse energy)	
Laser Classification	3B / IIIb	
Optical Output	Free Beam	
Electrical Data	Electrical Power Consumption	< 70 W
	Line Voltage	90 - 265 V AC (50-60 Hz) or 24 V DC
Interface	RS 232, USB	
Miscellaneous	Warm-up Time	< 10 min
	Operating Temperature	18 - 38 °C
	Laser Head Size	217 x 65 x 45 mm (core dimensions)
Options	Fiber coupling for fiber with core diameter ≥ 100µm	
	Synchronization signal output (rise time < 2 ns)	
	Manual shutter	
	Manual or electrical driven wavelength switch 532 nm / 1064 nm	
	Upgrade to 1 kHz repetition rate (parameters on request)	
	External telescope (e.g. M=5)	
	Manual attenuator (on request)	
Stand alone system (CDRH compliant)		

Laser Head and Controller



OEM-Controller



Laser Safety Labels

The FDSS532-150 lasers are class 3B according to IEC 60825-1:2007

