

# FDSS 532-1000

Diode pumped passively Q-switched solid state laser

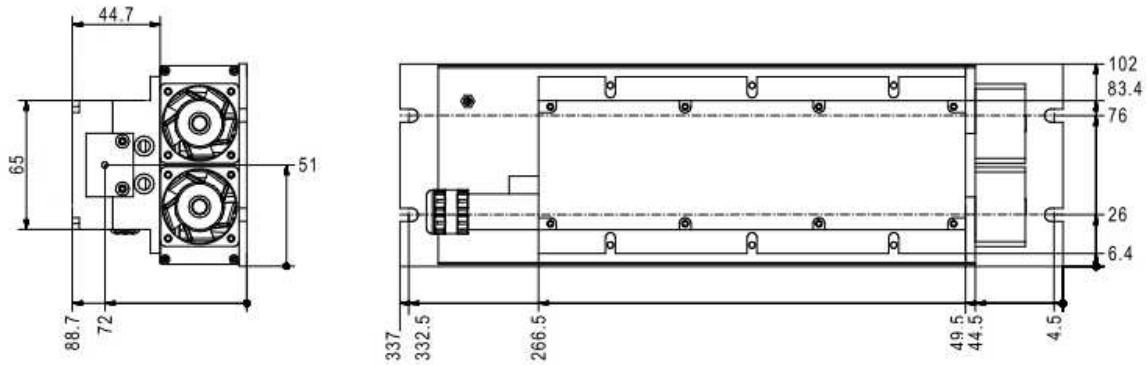
- 532 nm
- single pulse
- < 1.8 ns
- 1 – 80 Hz
- > 1000 µJ



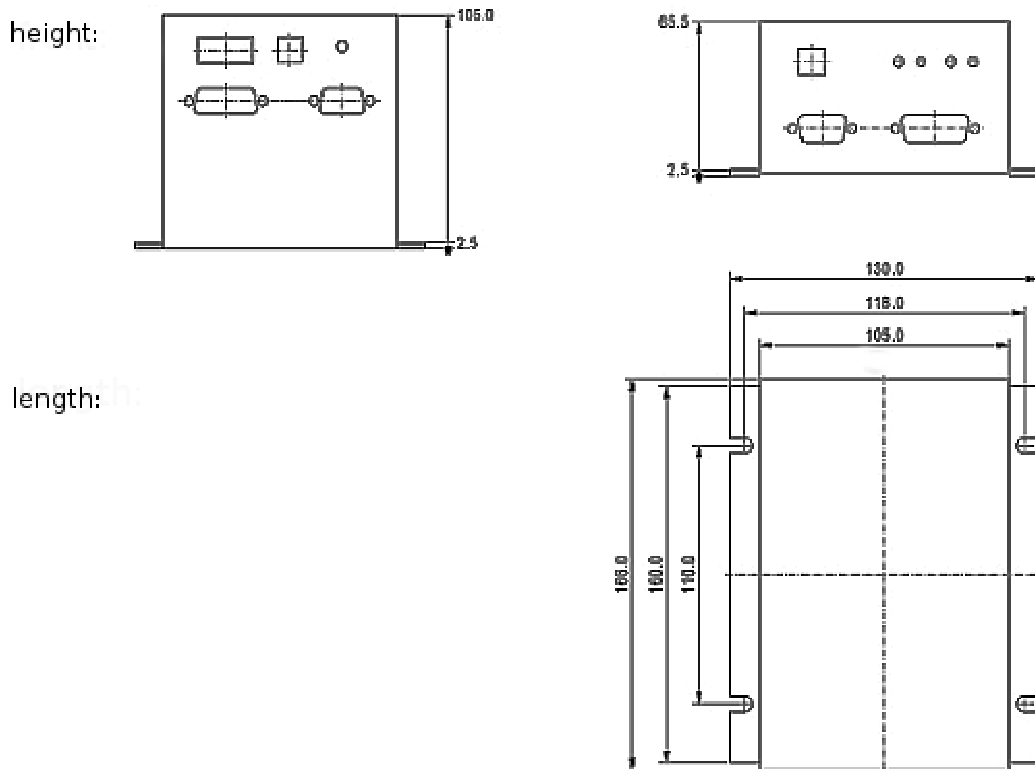
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<b>Optical Data</b>	Wavelength	532 nm
	Spatial Mode	TEM <sub>00</sub>
	Beam Divergence (full angle)	< 6.5 mrad
	Beam Ellipticity	< 2:1
	Waist Diameter	500 ± 150 µm (located at about 110mm inside the laser head)
	Beam Diameter	1.0 ± 0.3 mm (at laser exit)
	Peak Power	> 500 kW @ 20 Hz
	Pulse Energy	> 1000 µJ @ 20 Hz
	Pulse Repetition Rate (with external trigger)	1 - 80 Hz
	Pulse Width (FWHM)	< 1.8 ns
	Polarization Ratio	> 100:1, vertical
	Long term pulse energy stability (6 hrs)	< ± 8 %
Laser Classification	3B / IIIb	
<b>Optical Output</b>	Free Beam	
<b>Electrical Data</b>	Electrical Power Consumption	< 150 W
	Line Voltage	90 - 265 V AC (50-60 Hz) or 24 V DC
<b>Interface</b>	RS 232 (USB on request)	
<b>Miscellaneous</b>	Warm-up Time	< 10 min
	Operating Temperature	20 - 40 °C
	Laser Head Size	217 x 65 x 45 mm (core dimensions)
<b>Options</b>	SMA-connector for fibers with core diameter ≥ 400 µm	
	Synchronization signal output (rise time < 2 ns)	
	Manual shutter or electrical beam blocker	
	Manual or electrical driven wavelength switch 532 nm / 1064 nm	
	External telescope (e.g. M=5)	
	Manual and electrical attenuator	
	Stand alone system (CDRH compliant; incl. key switch, heat sink, manual beam shutter)	

## Laser Head and Controller



## EM booster and controller



## Laser Safety Labels

The FDSS 532-1000 lasers are class 3B according to IEC 60825-1:2007

