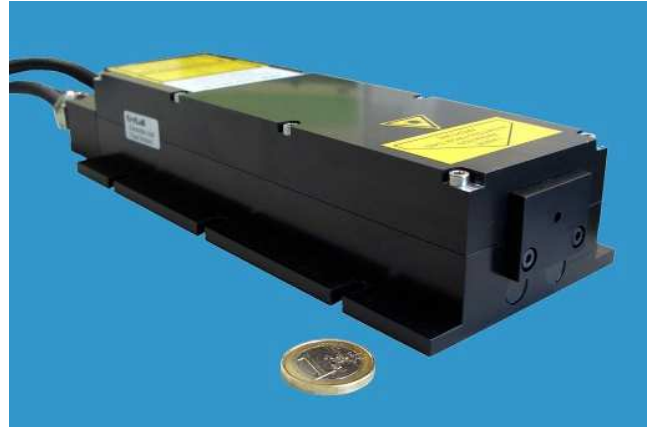


DSS 1064-450

Diode pumped passively Q-switched solid state laser

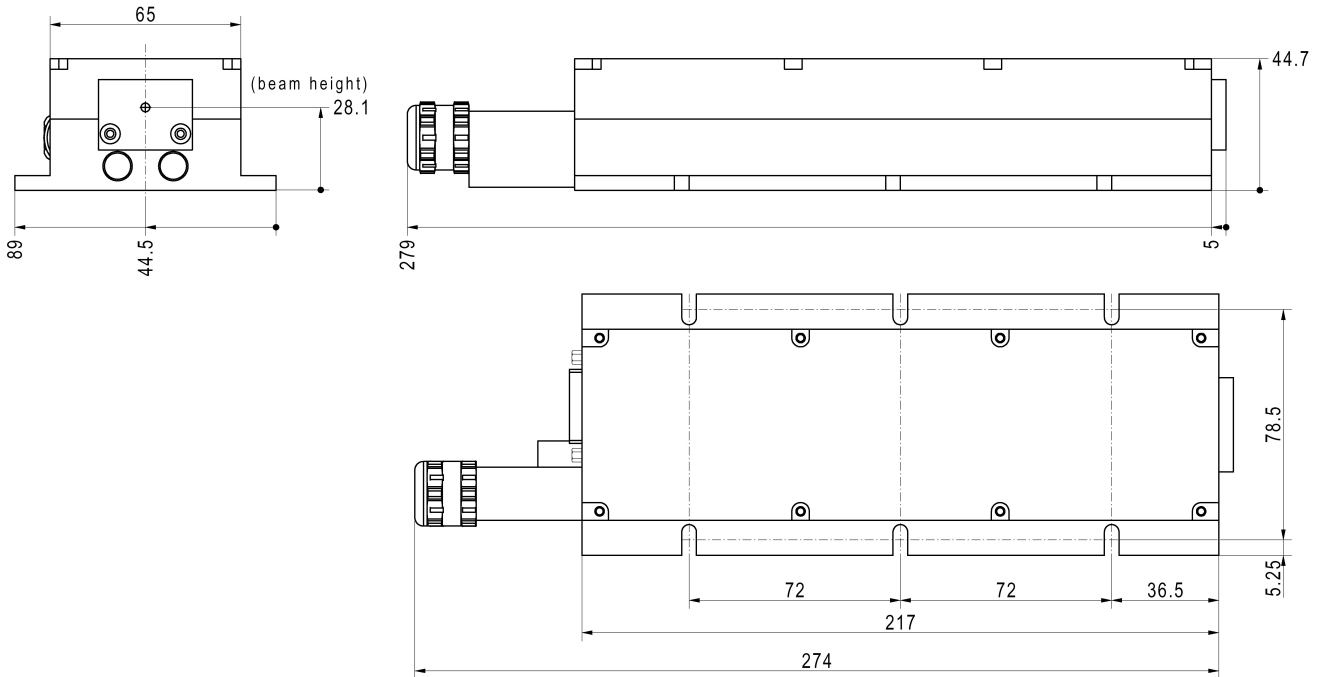
- 1064 nm
- single pulse
- 1.4 - 2 ns
- 1 – 100 Hz (up to 1 kHz optional)
- > 450 µJ



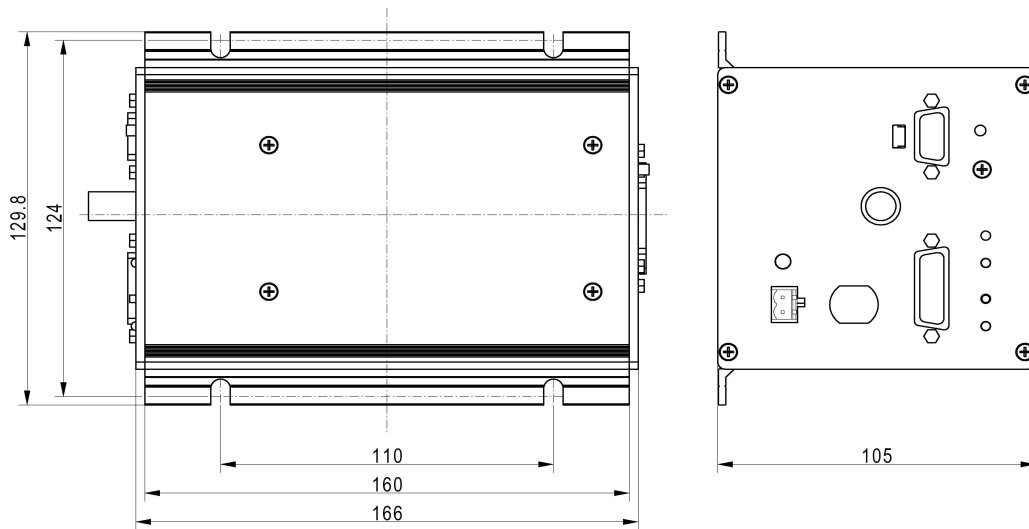
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Optical Data	Wavelength	1064 nm
	Spatial Mode	TEM ₀₀
	M ²	< 1.5
	Beam Divergence (full angle)	< 6.5 mrad
	Beam Ellipticity	< 2:1
	Waist Diameter	380 ± 100 µm (located at about 110mm inside the laser head)
	Beam Diameter	650 ± 150 µm (at laser exit)
	Peak Power	220 kW - 325 kW @ 1-100 Hz
	Pulse Energy	>450 µJ @ 1 - 100 Hz (>150µJ @ 1kHz option)
	Pulse Repetition Rate (with external trigger)	1 - 100 Hz, (up to 1 kHz, on request)
	Pulse Width (FWHM)	1.4 ns - 2 ns
	Polarization Ratio	> 100:1, vertical
	Long term pulse energy stability (6 hrs)	< ± 6 %
	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 fibers with core diameter ≥ 200 µm	
	Synchronization signal output (rise time < 2 ns)	
	Manual shutter or electrical beam blocker	
	Upgrade to 1 kHz repetition rate (parameters on request)	
	External telescope (e.g. M=5)	
	Manual or electrical attenuator	
Stand alone system (CDRH compliant; incl. key switch, heat sink, manual beam shutter)		

Laser Head and Controller



OEM-Controller



Laser Safety Labels

The DSS1064-450 lasers are class 3B according to IEC 60825-1:2007

