



Tourmaline Yb-SS Femtosecond Laser

- Output power up to 1.2 W
- Small footprint
- Integrated pump source
- Highly stable
- Short pulse duration
- Self-starting of femtosecond regime



Tourmaline Yb-SS-1058 femtosecond laser with control unit

Product overview

The Yb-doped Tourmaline Yb-SS laser radiates at 1058 ± 2 nm with more than 1 W of average power available, and that enables the end user to enjoy Ti:S-like power rate at over-micron wavelengths. This new design from Del Mar's engineers features an integrated pump diode module for greater system stability and turn-key operation. The solid-bulk body of the laser ensures maximum rigidity, while self-starting design provides for easy "plug-and-play" operation.

Possible application of the Tourmaline Yb-SS laser:

- Seed oscillator for amplifiers
- Multi-photon excitation microscopy
- Pump-probe spectroscopy
- Supercontinuum generation
- Generation of terahertz radiation
- Time-resolved spectroscopy
- Optical coherent tomography

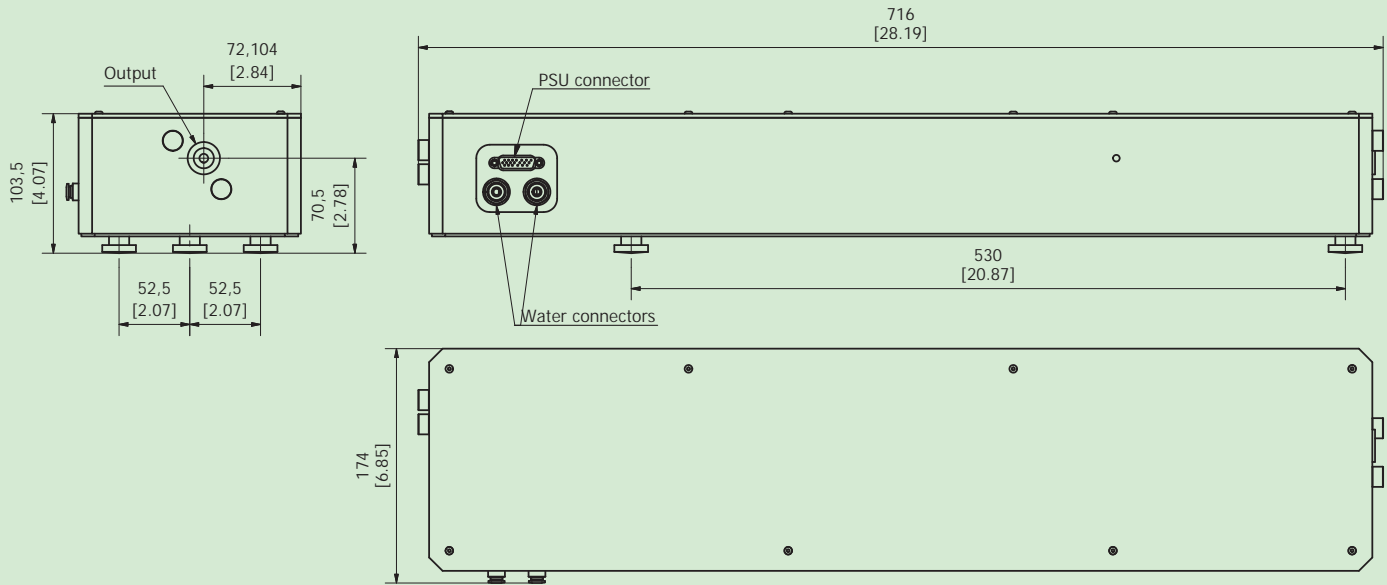
Tourmaline Yb-SS technical specifications

	SS-1058/100	SS-1058/150	SS-1058/250	SS-1058/200-HP
Pulse duration (FWHM), fs	<100	<150	<250	<200
Wavelength, nm	1058±2			
Output power, mW*	>250	>350	>560	>1200
Output power, mW*** @529±1 nm	>60	>90	>140	>300
Repetition rate, MHz	70*			
Pulse energy, nJ	>3.5	>5	>8	>17
Output power stability**	± 1% rms			
Spatial mode	TEM ₀₀			
Polarization, linear	>100:1 (horizontal)			
Laser head dimensions, mm	710x165x110			
Power supply dimensions, mm	230x200x85			

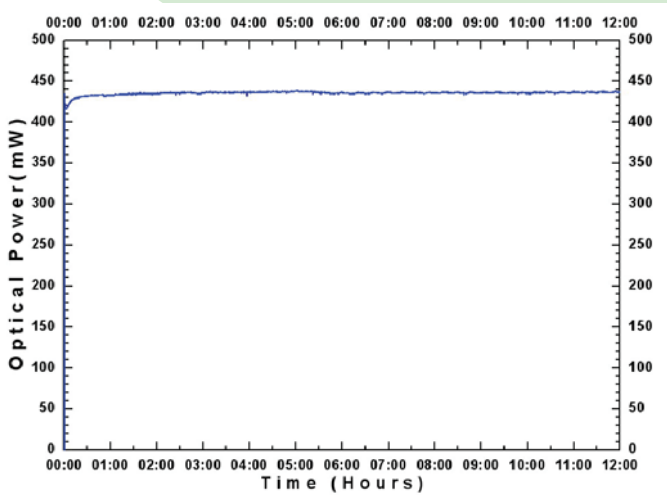
* - custom values available upon request

** - at equal room conditions over 12 hours after 30 minutes of warm-up

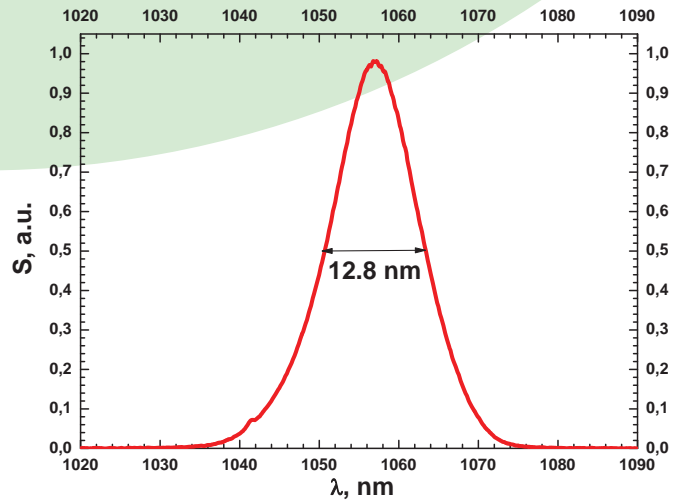
*** - optional SHG extension available



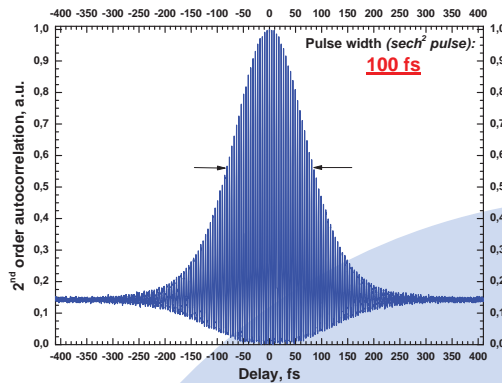
Tourmaline Yb-SS - mm [inches]



Stability graph



Typical generation spectrum



Autocorrelation trace