

Sol

Compact Q-Switched DPSS Laser



FEATURES

Up to 40W @ 1064nm

Up to 10W @ 532nm

300 kW peak power

Compact Air-cooled Single Unit

Up to 200 kHz repetition rate

Electronic pulse energy modulation

Sealed and rugged

Monolithic design

24 V dc

APPLICATIONS

» Material processing

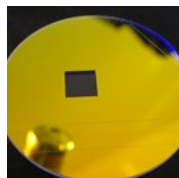
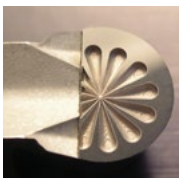
» Marking

» Scribing

» Thin film removal

» Micro-machining

» Nonlinear optics



Sol

Compact Q-Switched DPSS Laser

Sol is the most compact Q-switched Diode Pumped Solid State laser available in the power range from 6W to 40W @ 1064nm. Sol versions @ 532nm are also available with the same footprint. These air-cooled DPSS lasers are offered in a rugged and lightweight Single Unit, designed to allow easy and reliable integration in micro-machining and marking applications.

The Sol Single Unit Design is based on a permanently aligned Monolithic Optical Resonator integrated with 24 Vdc powered driving electronics. Cooling of the unit is provided by low noise fans.

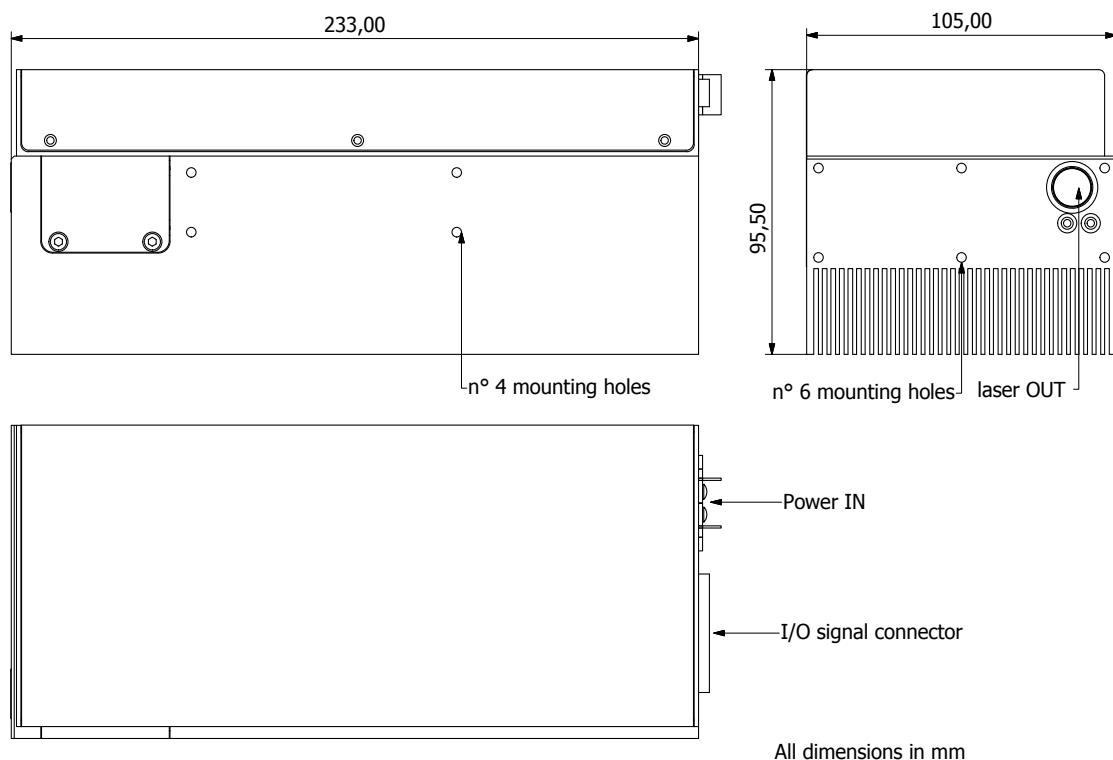
Due to the Single Unit design, optical fibers and other delicate cable connections will not be necessary for system integration.

Compactness, insensitivity to environmental conditions and ease of handling guarantee superior operation flexibility and performance/cost ratio.

The high peak power and the excellent beam quality of Sol lasers make them the ideal source for the most demanding industrial and scientific applications.

OPTIONS AVAILABLE

- » Beam expanding and collimating optics
- » Red aiming beam
- » Mechanical shutter
- » Extended frequency range
- » Pulse Width Modulation
- » Circular Polarization
- » Monitoring Photodiode
- » AC-DC Power Supply





Sol Models	6W-1064	10W-1064	20W-1064	30W-1064	40W-1064	5W-532	10W-532
Average Output Power	6W	10W	20W	30W	40W	5W	10W
Wavelength	1064 nm					532 nm	
Q-Switch Repetition Rate	10 to 100 kHz (option: single shot to 200 kHz)						
CW Operating Mode	yes					no	
Pulsewidth	3 to 80 ns						
Polarization	Linear 100:1 (optional: circular polarization)						
Beam Diameter	< 8 mm (Beam Expander included)						
Beam Quality (M²)	< 1.5	< 2	< 2	< 2.5	< 2.5	< 2	< 2
Cooling	Air-cooled with thermostatic fan						
Red Aiming Beam	included					optional	
Power Supply	24 V dc						





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Sol



Luce



Wedge



BDL & BFP

