

SOL

Compact Q-Switched DPSS Laser



FEATURES

Up to 20 W

Compact Single Unit

130 kW Peak Power

Up to 200 kHz repetition rate

Electronic Pulse Energy Modulation

Sealed and rugged

Monolithic Design

Air Cooling

24 Vdc

APPLICATIONS

» Material processing

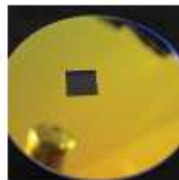
» Marking

» 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 4W to 20W. 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.

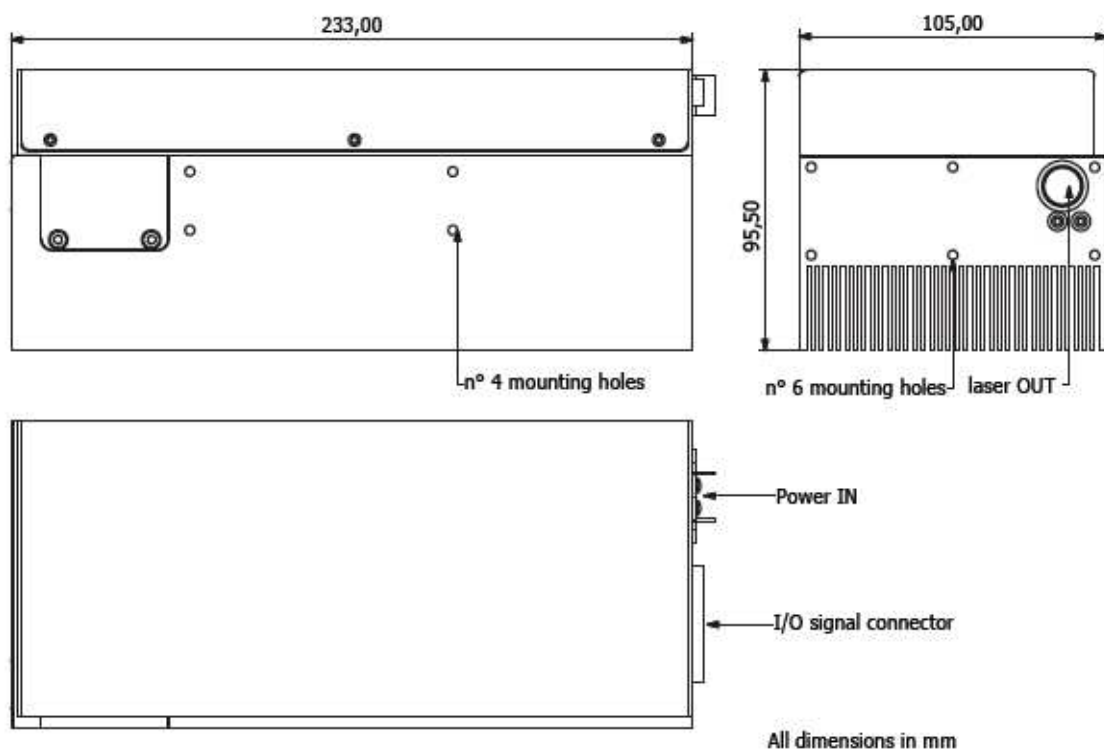
Compactness, insensitivity to environmental conditions and ease of handling guarantee superior operation

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





Models	4W	10W	20W
Wavelength		1064nm	
Q-Switched Repetition rate	5 to 25 kHz	10 to 100 kHz (Option: Single Shot to 200 kHz)	
CW Operating Mode	no	yes	
Pulsewidth	60 to 80 ns	7 to 50 ns	
Polarization	Random	Linear 100:1 (Option: circular polarization)	
Beam diameter		< 8 mm	
Beam quality (M ²)	< 1.5	< 2	
Cooling		Air cooled with thermostatic fans	
Power Supply		24V DC	





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SOL



LUCE



WEDGE



BDL



BFP