

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

RS232 monitor port

Applications

Material Processing

Marking

Scribing

Thin film removal

Micro-machining

Nonlinear optics

Medical and Aesthetic





***Digital Control Box for simplified remote control**

Sol is the most compact Q-switched DPSS laser available on the market 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, water cooling and contact cooling versions are also available.

Due to the single unit design, optical fiber and other delicate cable connections are not 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, medical and scientific applications.

The new electronic interface allows the user to integrate the laser according to the most recent safety standards for industrial machines (EN 13849) and to monitor the laser status through a RS232 port.

A new version of the Control Box and a new proprietary Software Interface are available for simplified remote control and monitoring.



***Fiber Coupling option**

OPTIONS AVAILABLE:

- Beam expanding and collimating optics
- Fiber Coupling
- Red aiming beam
- Extended operating temperature range
- Extended frequency range
- Pulsewidth modulation
- Circular Polarization
- Monitoring Photodiode
- Remote Control Box and Software Interface
- AC-DC Power Supply

Sol

Compact Q-Switched DPSS Laser

Sol Models	Sol DPSS 1064nm					Sol DPSS 532nm		
Available models\ Max Average Output power	6W	10W	20W	30W	40W	3W	5W	10W
Q-Switch Repetition Rate	10 to 100 kHz (option: single shot to 200 kHz)							
CW Operating Mode	YES					NO		
Pulsewidth	6 to 80 ns							
Beam Diameter	< 8 mm (option: customized internal or external BEX)							
Cooling	Air-cooled with thermostatic fan (option: water cooling, contact cooling)							
Operating temperature	15 to 40 °C				15 to 35 °C			
DC Voltage IN	24 V							
Mechanical dimensions	23 x 10 x 9 cm ³ (9 x 4 x 4 in ³)							
Weight	< 4,5 kg (< 10 lbs)							



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