

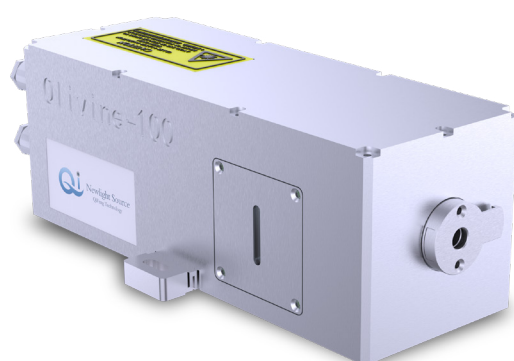
# Olivine

## DPSS nanosecond lasers

Olivine is a high-performance DPSS designed for Ti:sapphire pumping, radar remote sensing, pump detection, biomedical and other applications. This series adopts diode module side pumping technology, with a life of more than 1 billion shots, which has a longer life than ordinary LD pump modules. In order to meet the demanding requirements of Ti:sapphire lasers for pump sources, Olivine nanosecond lasers are optimized for beam quality and can output Gaussian beams with ovality better than 95%.

## Product Features

- Long working life
- Repetition rate from 1 Hz to 100Hz switching
- Targeted spot optimization
- High energy
- Compact and easy to integrate
- VRM top-hat output optional



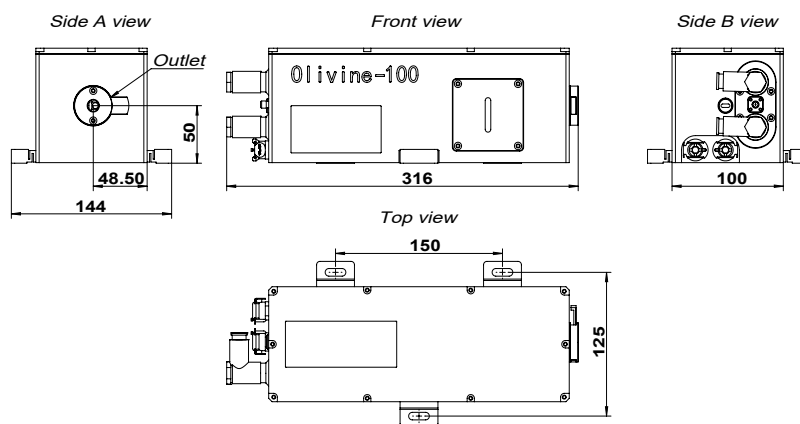
## Typical Applications

- Ti:Sapphire Laser Pumping
- radar
- LIBS laser-induced dissociation spectroscopy
- remote sensing
- Burning
- Mass spectrometry analysis
- Laser ultrasound
- LCD Repair

## Specifications

		Olivine	
Central wavelength		1064 nm	532 nm
Beam dimension(1/e <sup>2</sup> )		~4 mm	~4 mm
Pulse energy	1-10 Hz	>100 mJ	>50 mJ
	100 Hz	>80 mJ	>40 mJ
Energy stability		<0.8%(RMS)	<1.2%(RMS)
Pulse width		<10 ns	<10 ns
Divergence angle		<5 mrad	
Beam pointing stability		<50 μrad (RMS)	
Timing jitter(RMS)		<1 ns	
Beam mode		Multimode,VRM optional	
Trigger mode		Inside trigger,outside trigger	
Electrical parameters		220AC	
Working conditions		Temperature 10-30 °C, humidity <60%	
Warm-up time		<5 min	

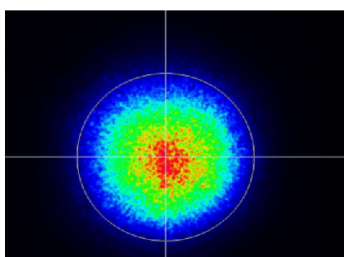
## External Dimensions



Dimensions of Olivine

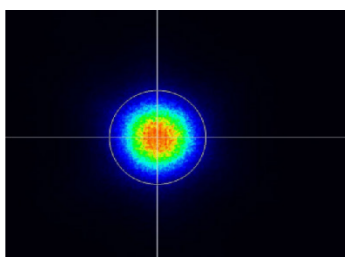
## Typical Data

1



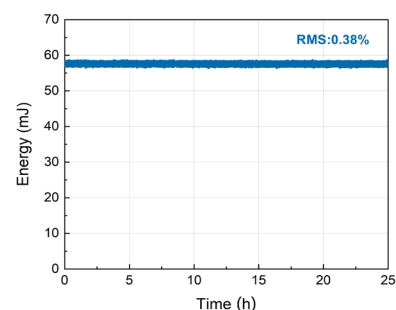
Near-field spot of Olivine

2



Far-field spot of Olivine

3



Olivine energy stability

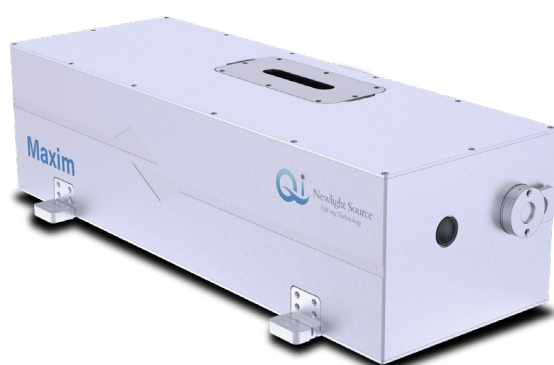
# Maxim

## High Repetition rate DPSS nanosecond lasers

Maxim is an industrial and maintenance-free with high-repetition rate, high-energy DPSS nanosecond green lasers based on acousto-optic Q-switched technology and repetition rate up to 10 kHz, pulse energy up to 40 mJ.

With a special cavity design, Maxim has an ultra-Gaussian spot distribution that meets the spot distribution requirements of applications such as material surface treatment, laser pumping, and time-resolved PIV. Maxim uses our self-designed diodes pumping module so that has the characteristics of long life and high uniformity.

In addition, Maxim is equipped with a PC-side visualization interface and remote system monitoring, communication functions, which is convenient for scientific research users and industrial system integration by industrial system vendors.



## Product Features

- Long life, maintenance-free for industrial application
- Industrial-grade reliability and stability
- Ultra-Gaussian spot distribution
- With visual interface, remote monitoring system

## Typical Applications

- Ti:Sapphire Laser Pumping
- Semiconductor material processing
- LIDAR laser radar
- Laser long-range ranging
- Time resolved PIV
- nonlinear optics

# Specifications<sup>1</sup>

	Maxim-20	Maxim-30	Maxim-40
Central wavelength	527 nm		
Pulse energy <sup>2</sup>	>20 mJ	>30 mJ	>40 mJ
Average power	>20 W	>30 W	>40 W
Power stability <sup>3</sup>	<0.5% (RMS)		
Max repetition rate <sup>4</sup>	1 kHz		
beam mode	Flat top		
Beam dimension (1/e <sup>2</sup> )	~4 mm	~4 mm	~5 mm
Pulse width	<200 ns		
Divergence angle	<5 mrad		
Polarization	Linear, horizontal		
Trigger mode	Internal trigger, external trigger		
Power supply	220 V-50/60 Hz-10 A		
Cooling method	Water cooler		

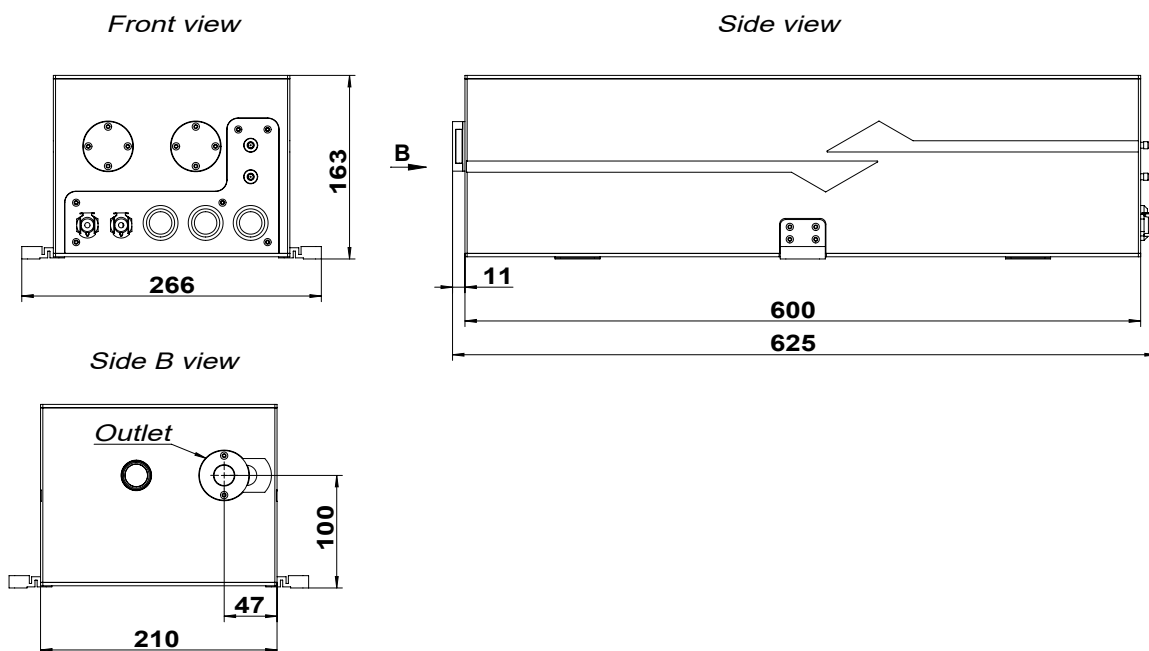
<sup>1</sup> All specifications apply at 527 nm. Due to continuous product improvements, specifications are subject to change without notice.

<sup>2</sup> Different energy products can be customized according to customer needs, please contact us for details.

<sup>3</sup> Power stability measured for 8 hours under stable ambient conditions.

<sup>4</sup> Max repetition rate up to 10 kHz, please contact us for details.

## External Dimensions

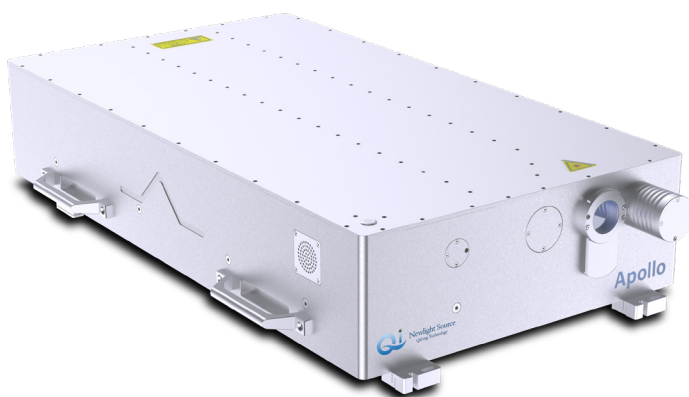


Dimensions of Maxim

# Apollo

## Joule-class nanosecond lasers

Apollo is a lamp-pumped high-energy Joule-class pulsed laser. Using compact and sturdy industrial design, miniaturization advantages are obvious, laser shell with integrated structure and high-strength aviation aluminum, the product is Newlight Source using unique patented technology, independent R&D and production, can satisfy the user's long-term use and non-stop work requirements.



## Product Features

- Ultra-compact, industrial design
- High pulse energy
- Customer-specified central wavelength and pulse energy
- Working environment no demanding

## Typical Applications

- Thomson scattering measurement system
- Laser shock strengthening
- Ti:Sapphire Laser Pumping
- Research on Material Damage Threshold
- Large area ablation
- Plasma Physics
- Silicon annealing

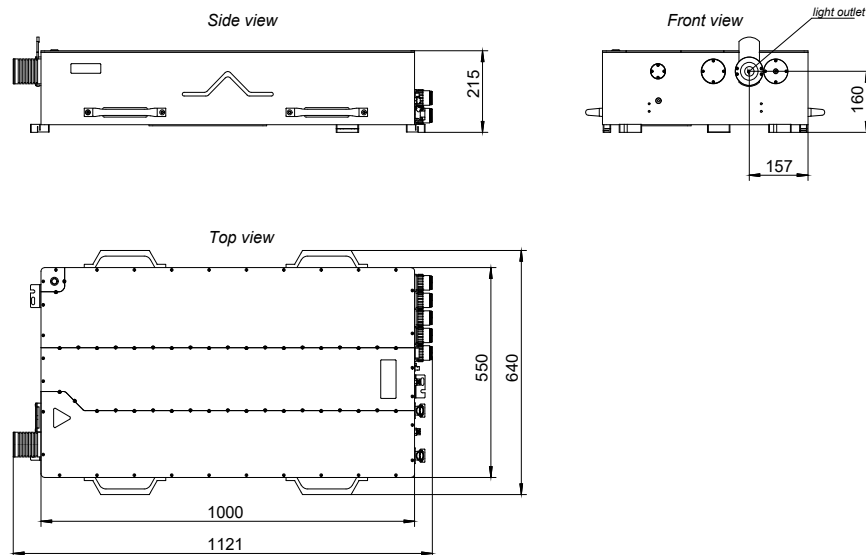
## Specifications

	Apollo
Central wavelength	532 nm
Pulse energy <sup>1</sup>	>15 J
Pulse width	15 ns
Energy stability <sup>2</sup>	< 0.5% (RMS)
Beam dispatch value	< 1.5 (Peak to Average)
Beam dimension (1/e <sup>2</sup> )	~30 mm
Pumping	Xenon lamp pumping

<sup>1</sup> Customizable low pulse energy products, please contact us for details.

<sup>2</sup> Energy stability measured 24 hours under stable ambient conditions.

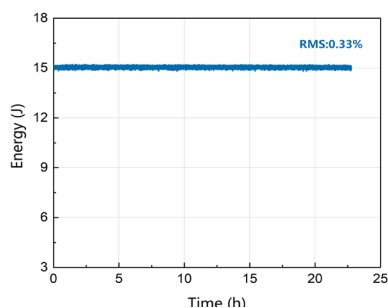
## External Dimensions



Dimensions of Apollo

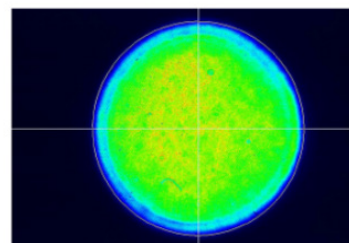
## Typical Data

1



Energy stability

2



Near-field beam