

TINY-L series

Flashlamp-pumped Compact Nd:YAG ns-laser



FEATURES

- **compact** design and **Fast lamp changing** unit
- **50-200mJ** at 1064nm / Harmonics from 532nm to 266nm
- 10-30 Hz repetition rate / 4-5 ns pulse duration
- Compact and rugged resonator structure ensures long-term thermal and mechanical stability
- Harmonics with cartridge holder type unit require no extra space for installation
- RS232 interface for remote operation

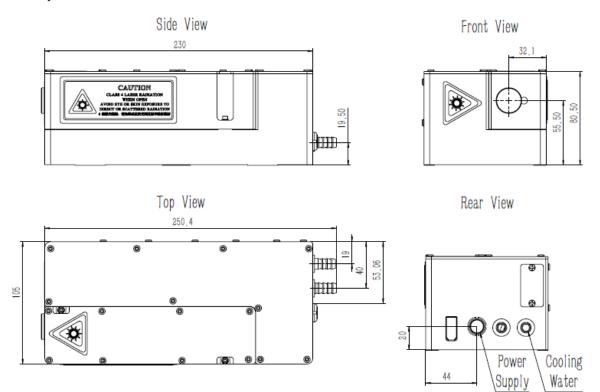
TINY-L series provide most compact and portable flashlamp pumped nanosecond lasers with high performance and at a very reasonable price. Fast lamp changing unit and cartridge holder type harmonics design make it easier to operate.

APPLICATIONS

- LIDAR
- LIBS
- Remote sensing
- Ablation
- Mass spectroscopy

TINY-100L 355nm Laser Head Mechanical Specifications

Unit:mm



TINY-L series Specifications



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Beam characteristics

Version	TINY-50L	TINY-100L	TINY-200L
Repetition Rate ¹ (Hz)	1-30Hz	1-20Hz	1-10Hz
Energy (mJ)			
1064nm	50	100	200
532nm	25	50	100
355nm	10	30	60
266nm	5	10	20
Energy Stability RMS (%)			
1064nm	1%		
532nm	1.7%		
355nm	3%		
266nm	3.5%		
Power Drift ² (%)			
1064nm	3%		
532nm	5%		
355nm	8%		
266nm	10%		
Pulsewidth FWHM ³ (ns)	4-5ns @1064nm		
Divergence ⁴ (mrad)	<1mrad		
Beam Pointing Stability ⁵ (µrad)	50μrad		
Timing Jitter RMS ⁶ (ns)	<1ns		
Beam Diameter (mm)	~4	~5	~6
Transverse Mode ⁷	GRM mode (Top hat)		
Polarization	linear		
General characteristics			
AC Input	220 VAC ±5% 50-60Hz		
Power Consumption	<800W (typical 100mJ at 20Hz)		
Operating Conditions	Temperature 10-35°C Humidity <60%		

NOTES

- 1.All specifications at 1064nm and 10Hz repetition rate unless otherwise noted.
- 2. Average in 8 hours with room temperature variation $\delta T < 3^{\circ}C$.

Warm Up Time

- 3.Full width at half maximum.
- 4.Full angle for 86.5% of energy.
- 5. Represents RMS value deviation from beam mean centroid.
- 6. With respect to external trigger.
- 7.GRM resonator mode or stable multimode option. Stable version may operate over a wider range of repetition rate and higher output energy compared with GRM mode.

 \leq 10min

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