

ALPHA:DIODE PUMPED PASSIVELY Q-SWITCHED SOLID STATE LASERS



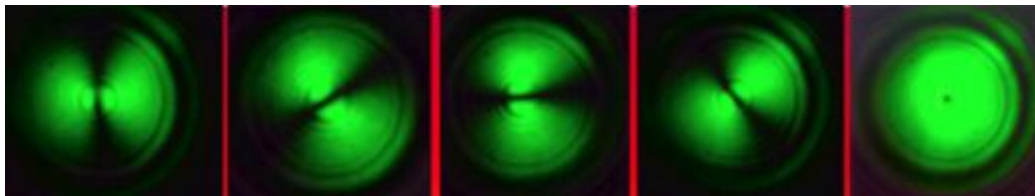
Model	ALPHA-1064	ALPHA-532	ALPHA-355	ALPHA-266
Wavelength	1064 nm	53 nm	355 nm	266 nm
Pulse Energy	1-30 μ J	3-10 μ J	1-5 μ J	1-3 μ J
Peak Power	1-20 kW	2-6 kW	1-3 kW	1-2 kW
Repetition Rate	1-50 kHz tunable			
Pulse Duration (FWHM)	<1.5 ns			
Polarization Ratio	> 100 : 1 (direction optional)			
Power Stability (RMS , 6h)	< \pm 3 %	< \pm 5 %	< \pm 5 %	< \pm 5 %
Spatial Mode	TEM ₀₀			
Beam Divergence	<1 mrad			
Beam Diameter	<1 mm			
Single Longitude Mode	Optional			
Laser Head (LxWxH)	120x70x48 mm			
Power Supply (LxWxH)	200 x 120 x 120 mm			
External and internal trigger are available (TTL , rising edge) 1Hz-Max. Repetition rate				
Operating temperature 15-35°C , Operating humidity<70% RH				

ALPHA-A:DIAMOND MARKING AND PLANNING



Optical	Typical
Central wavelength	1064 nm
Operating mode	Pulsed
M ² factor	< 1.1
Waist diameter	300 μm
Transverse mode	TEM ₀₀
Output power	1000 mW, 500 mW
Pulse Repetition Frequency	5~25 KHz
Pulse width	~18 ns
Pulse energy	50~100 μJ
Laser head cooling type	Air-cooling
Operating temperature	10~35 °C
Laser Head(L × W × H)	120 × 60 × 73 mm

BETA: VECTOR POLARIZED SOLID STATE LASERS



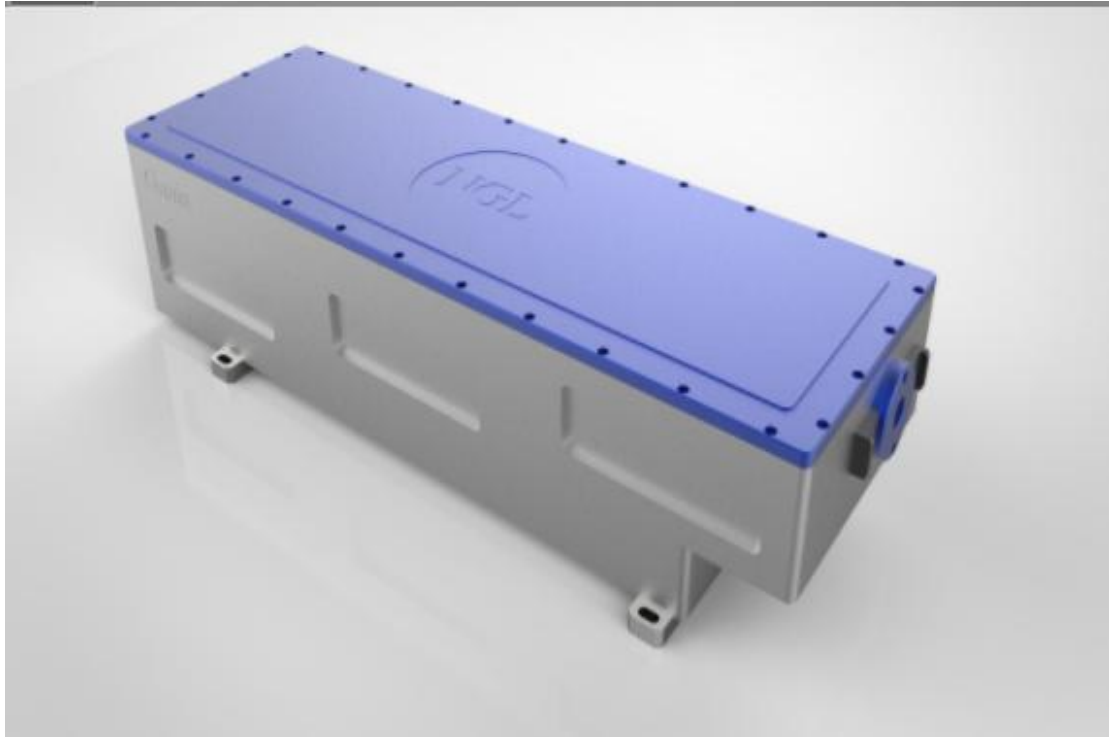
Model	BETA	
Wavelengths	457 nm, 473 nm, 488 nm, 515 nm, 532 nm, 556 nm, 561 nm, 633 nm, 1030 nm, 1064 nm, 1550 nm (Customized optional)	
Operation Mode	CW or pulsed	
Polarization (RMS,6h)	Radial	Azimuthal
Power Stability	<± 3% or <± 1% optional	
Beam Divergence	<1 mrad	
Beam Diameter	<1 mm	
Single Longitude Mode	Optional	
Laser Head (LxWxH)	120 x 70x 48 mm	
Power Supply (LxWxH)	200 x 120 x 120 mm	
External and internal trigger are	available (TTL , rising edge) 1Hz- Max. Repetition rate	
Operating temperature	15-35°C , Operating humidity< 70% RH	

DELTA: LAMP PUMPED Q-SWITCHED SOLID STATE LASERS



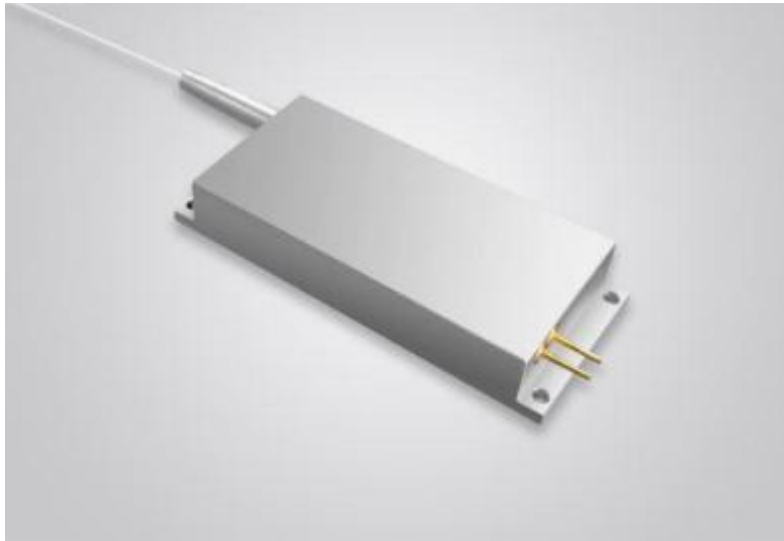
Model		DELTA-300	DELTA-500	DELTA-700	DELTA-1000
Pulse Repetition Rate		1-10Hz			
Pulse Energy	1064 nm	300 mJ	500 mJ	700 mJ	1000 mJ
	532 nm	150 mJ	250 mJ	350 mJ	500 mJ
	355 nm	60 mJ	80 mJ	110 mJ	160 mJ
Energy Stability	1064nm	<2 %	<2 %	<3 %	<3.5 %
	532nm	<2.5 %	<2.5 %	<3.5 %	<4 %
	355nm	<3.5 %	<3.5 %	<4 %	<4.5 %
Pulse Width (FWHM)		≤10 ns			
Beam Divergence (full angle)		<1 mrad			
Beam Diameter		<7 mm	<8 mm	<8 mm	<9 mm
Pointing Stability		<50 μrad	<50 μrad	<60 μrad	<60 μrad
Jitter		≤1 ns			
Laser Head (LxWxH)		335 x 130 x 105 mm		622x 200 x 109 mm	
Power Supply (LxWxH)		440 x 350 x 140 mm			

GAMMA: DIODE PUMPED SOLID STATE UV LASERS



Model	GAMMA-355-3	GAMMA -355-5	GAMMA -355-7	GAMMA -355-10
Power	>3W@40kHz	>5W@40kHz	>7W@50kHz	>10W@50kHz
Single Pulse Energy	>75μJ@40kHz	>125μJ@40kHz	>140μJ@50kHz	>200μJ@50kHz
Pulse Width	<10ns@40kHz	<10ns@40kHz	<10ns@50kHz	<10ns@50kHz
Beam Quality	TEM ₀₀ (M ² ≤1.2)	TEM ₀₀ (M ² ≤1.2)	TEM ₀₀ (M ² ≤1.2)	TEM ₀₀ (M ² ≤1.4)
Beam Diameter	≤2 mm			
Divergence	≤2 mrad			
Repetition Rate	1-200 kHz tunable			
Power Stability	≤3 %			
Polarization Ratio	Horizontal, >100:1			
Operating Condition	Operating temperature 10-35°C , Operating humidity<65% RH			
Cooling	Water cooled			
Laser Head (L×W×H)	545×194×124 mm		548×284×161 mm	

LAMBDA:LASER SOURCE WITH FIBER COUPLING



Wavelength	405 nm , 488 nm , 532 nm , 561 nm , 637 nm(customized optional)
Output Power	Customized
Spatial Mode	TEM ₀₀
M-Square	<1.1
Stability	RMS noise (20Hz-20MHz)<0.25%, Peak to peak noise (20Hz-20MHz)<1%, Long term power stability (8h)<2%
Polarization Ratio	100:1
Fiber Type	PM or SM
Fiber End	Collimator or Connector(FC/APC , FC/UPC , SC/APC , SC/UPC)
Fiber Length	0.8 m(Customized)
Fiber Jacket	0.9 mm PVC