



长春新产业光电技术有限公司

Changchun New Industries Optoelectronics Tech. Co., Ltd.

DATA SHEET

MPL /1~20μJ

LD PUMPED ALL-SOLID-STATE Q-switched LASER

All solid state Q-switched laser at 532/1053/1064/1319nm has the features of high peak power, high repetition rate, and short pulse duration, which is widely used in industry (marking on the diamond or stone), teaching of nonlinear Optics, experiments of generating 532nm, 355nm, or 266nm laser, fiber communication, and etc.

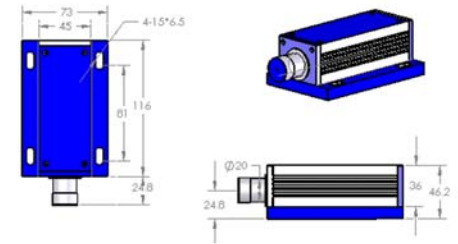


SPECIFICATIONS

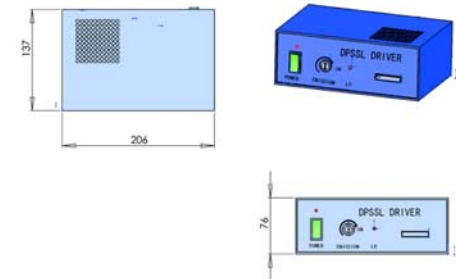
Wavelength (nm)	532	1053	1064	1319
Operating mode	Q-switched pulsed laser			
Single pulse energy (μJ)	1-2	~15	~10	~10
Pulse duration (ns)	~15	~10	~10	~10
Peak power (W)	~100	~1500	~1000	~1000
Rep. rate (kHz)	Controllable	Specified One rep. rate, such as 1k, 2k, 3k, up to 4kHz, with stable laser pulses emitting (stable pulse energy, peak, duration and period). Different rep. rate in the range of 1Hz-4kHz can be obtained by input an external TTL signal.		
	Uncontrollable	Undefined rep. rate among 5k-20kHz and unstable laser pulse emitting. Suitable for the applications only needing high peak power pulses.		
Average power (mW)	Average power (mW) = Single pulse energy (μJ) * Rep. rate (kHz)			
Ave power stability (over 4 hours)	<1%, <3%, <5%			
Transverse mode	TEM ₀₀			
Warm-up time (minutes)	<15			
Beam parameters	M ² factor <1.2, Divergence <1.5 mrad, Beam spot ~2 mm			
Dimensions of laser head (mm)	140.8(L) × 73(W) × 46.2(H)			
Beam height from base (mm)	24.8			
Net weight of laser head (kg)	0.65			
Power supply (110 or 220VAC)	Integrated driver (LD-WL201)	Dimensions: 206(L)×137(W)×76(H) Net weight: 3kg		
Operating temperature (°C)	10-35			
Expected lifetime (hours)	10000			
Warranty time	1 year			
Remarks	Average power of 1-2mW UV laser at 266nm or 355nm can be generated by MPL-1064 or MPL-532.			



LASER HEAD DIMENSIONS



POWER SUPPLY DIMENSIONS



Distributor in Israel

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