



MPL-S series

LD PUMPED ALL-SOLID-STATE Q-SWITCHED LASER

All solid state Q-switched laser has the features of high peak power and short pulse duration, which is widely used in scientific research, laser micromaching, laser radar ranging, environment monitoring, laser ultrasonic monitoring and LIBS (Laser Induced Breakdown Spectroscopy) etc.



SPECIFICATIONS

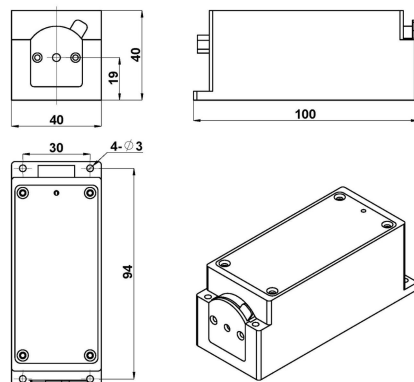
Model	MPL-S-946		MPL-S-1064-A	MPL-S-1064-B			MPL-S-1064-C		MPL-S-1030	
Wavelength (nm)	946±1		1064±1						1030±1	
Operating mode	Q-switched pulsed laser									
Max average power (mW) ^a	1~50	1~100	1~50	1~5	1~8	1~25	1~50	1~200	1~300	1~450
Single pulse energy (μJ)	1~50	1~25	1~50	1~10	1~8	1~5	1~70	1~40	1~70 ^b	1~50
Pulse duration (ns)	~2.6	~4	~0.4	~0.6			~0.8		~0.6	
Peak power (kW)	27	6.25	2.5~125	1.66~16.6	1.66~13.3	1.66~8.3	1.25~62.5	1.25~50	1.6~116.6	1.6~83.3
Rep. rate (kHz) (optional)	0.01~1.0	1~4	0.1~1.0	0.1~0.5	0.6~1.0	1~5	0.01~1.0	1~5	/	
Rep. rate (kHz) (QCW)	/								~4	8~10
Ave power stability (over 4 hours)	<5%, <3%, <2%									
Transverse mode	TEM ₀₀									
M ² factor	<1.5									
Beam diameter at the aperture (mm)	~1.0									
Beam divergence, full angle (mrad)	<1.5									
Polarization ratio	/		>100:1, Horizontal (Vertical Optional)						/	
Warm-up time (minutes)	<5									
Beam height from base plate (mm)	19									
Operating temperature (°C)	10~35									
Power supply (90-264VAC)	PSU-SR									
Expected lifetime (hours)	10000									
Warranty	1 year									

a. Average power (mW)= Single pulse energy (μJ)* Rep. rate(kHz)

b. The laser head needs to be used on a heat sink with good heat dissipation.

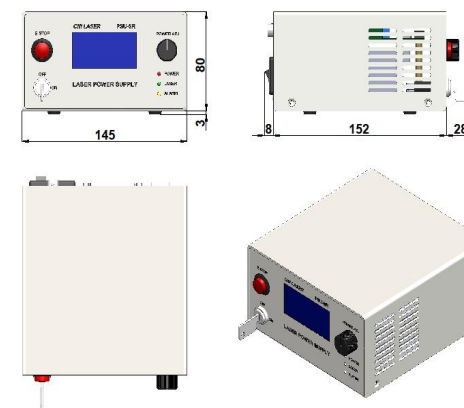


LASER HEAD



100(L)×40(W)×40(H) mm³, 0.36 kg

POWER SUPPLY



188(L)×145(W)×83(H) mm³, 1.2kg