



MPL-FL series

LD PUMPED ALL-SOLID-STATE Q-switched LASER

All solid state Q-switched laser at 1064nm has the features of high peak power and short pulse duration, which is widely used in scientific research, laser micro-maching, laser radar ranging, environment monitoring, laser ultrasonic monitoring and LIBS (Laser Induced Breakdown Spectroscopy) etc.



SPECIFICATIONS

Model	MPL-FL-1064-A		MPL-FL-1064-B			
Wavelength (nm)	1064±1		1064±1			
Operating mode	Q-switched pulsed laser					
Max average power (mW)*	~100	~1000	~150	~180	~200	~300
Single pulse energy (μJ)	~130	~15	~150	~180	~200	~300
Pulse duration (ns)	~1.3	~5	<1.0	<1.3	<1.5	<2.0
Peak power (kW)	~100	~3	~150	~138	~133	~150
Rep. rate (kHz)	1kHz	~70 kHz	1kHz			
Ave power stability (over 4 hours)	<5%, <3%, <1%					
Transverse mode	TEM ₀₀					
M ² factor	<1.3		<1.5			
Beam diameter at the aperture (mm)	~0.6 (can be customized)		~2.0			
Beam divergence, full angle (mrad)	<5 (can be customized)		<2.0			
Polarization ratio	>100:1, Horizontal (Vertical Optional)					
Warm-up time (minutes)	<5					
Beam height from base plate (mm)	22		38			
Operating temperature (°C)	10~35					
Power supply (90-264VAC)	PSU-IDP-FL					
Expected lifetime (hours)	10000					
Warranty	1 year					

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

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

LASER HEAD (A)	LASER HEAD (B)	POWER SUPPLY
<p style="text-align: center;">73(L)×29(W)×33(H) mm³, 0.6 kg</p>	<p style="text-align: center;">121(L)×50(W)×55(H) mm³, 0.7 kg</p>	<p style="text-align: center;">249(L)×160(W)×105(H) mm³, 2.3 kg</p>