

MPL-H series



LD PUMPED ALL-SOLID-STATE Q-SWITCHED LASER

All solid state Q-switched laser 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, fiber communication, etc.



SPECIFICATIONS

Wavelength (nm)	523.5±1	526.5±1	532±1	656.5±1	660±1	1047±1	
Operating mode	Frequency conversion of Q-switched pulsed laser						
Max average power (mW)*	1~150	1~150	30~150		1~10	1~300	
Single pulse energy (μJ)	1~60		5~30		2~5	50~150	
Pulse duration (ns)	~4		~1.3	~5	~15	~6	
Peak power (kW)	2.5~15		3.8~24.6	1~10	0.13~0.33	8.4~25	
Rep. rate (kHz)	INT FIXED (One internal fixed rep.rate)	1kHz		1Hz-4kHz (optional)		1k-2kHz (optional)	1Hz-1kHz (Optional)
	EXT TRIG (External triggered)	1kHz		1Hz-4kHz		1k-2kHz	1Hz-1kHz
	QCW	Between 2k-5kHz		Between 5k-30kHz		Between 2k-5kHz	Between 2k-5kHz
Ave power stability (over 4 hours)	<5%, <3%		<5%, <3%, <2%, <1%		<5%, <3%	<5%, <3%, <2%	
Transverse mode	TEM ₀₀						
M ² factor	<1.5						
Beam diameter at the aperture (mm)	~0.8						
Beam divergence, full angle (mrad)	<2.0						
Polarization ratio	>100:1, Vertical (Horizontal Optional)		>100:1, Horizontal (Vertical Optional)		>100:1, Vertical (Horizontal Optional)		>100:1, Horizontal (Vertical Optional)
Warm-up time (minutes)	<5						
Beam height from base plate (mm)	29						
Operating temperature (°C)	10~35						
Power supply (90-264VAC)	PSU-H-FDA						
Expected lifetime (hours)	10000						
Warranty	1 year						

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



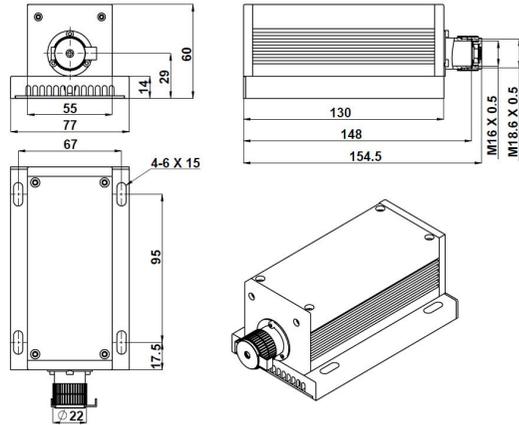
SPECIFICATIONS

Wavelength (nm)		1053±1	1064±1	1313±1	1319±1	1573±1	
Operating mode		Q-switched pulsed laser					
Max average power (mW)*		300~450	~400	500~1500	1~100	100~150	1~30
Single pulse energy (μJ)		30~50	~40	20~100	10~20	7~15	1~30
Pulse duration (ns)		~10	~1.5	~10	~18	~15	1~2
Peak power (kW)		3~5	~27	2~10	0.55~1.1	0.46~1	1~15
Rep. rate (kHz)	INT FIXED (One internal fixed rep.rate)	1Hz-1kHz (Optional)	1Hz-4kHz (Optional)			1Hz-1kHz (Optional)	
	EXT TRIG (External triggered)	1Hz-1kHz	1Hz-4kHz			/	
	QCW	Between 2k-5kHz	Between 5k-30kHz		Between 5k-20kHz		/
Ave power stability (over 4 hours)		<3%, <2%, <1%					<5%, <3%
Transverse mode		TEM ₀₀					
M ² factor		<1.5					
Beam diameter at the aperture (mm)		~1.5					
Beam divergence, full angle (mrad)		<2.0					
Polarization ratio		>100:1, Horizontal (Vertical Optional)					
Warm-up time (minutes)		<5					
Beam height from base plate (mm)		29					
Operating temperature (°C)		10~35					
Power supply (90-264VAC)		PSU-H-FDA					
Expected lifetime (hours)		10000					
Warranty		1 year					

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



LASER HEAD



154.5(L)×77(W)×60(H) mm³, 0.9 kg

POWER SUPPLY (PSU-H-FDA)



276.6(L)×145(W)×103.6(H) mm³, 2.3 kg