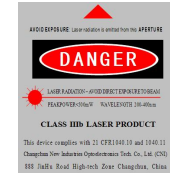


**MPL-U series**



**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, experiments of generating 355nm, or 266nm laser, fiber communication, etc.



**SPECIFICATIONS**

Wavelength (nm)	473±1	523.5±1	526.5±1
Operating mode	Frequency conversion of Q-switched pulsed laser		
Max average power (mW)*	1~10	1~150	
Single pulse energy (μJ)	1	1~60	
Pulse duration (ns)	~7	~5	
Peak power (kW)	0.14	0.2~12	
Rep. rate (kHz)	INT FIXED (One internal fixed rep.rate)	1Hz-4kHz (Optional)	
	EXT TRIG (External triggered)	1Hz-4kHz	
	QCW	Between 5k-9kHz	
Ave power stability (over 4 hours)	<5%, <3%		
Transverse mode	Near TEM <sub>00</sub>		
M <sup>2</sup> factor	<1.5		
Beam diameter at the aperture (mm)	~1.0		
Beam divergence, full angle (mrad)	<2.0		
Polarization ratio	>100:1, (Horizontal or Vertical Optional)		
Warm-up time (minutes)	<5		
Beam height from base plate (mm)	27.4		
Operating temperature (°C)	10~35		
Power supply (90-264VAC)	PSU-H-LED/PSU-H-FDA		
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.**



**SPECIFICATIONS**

Wavelength (nm)		532±1			656.5±1	660±1		
Operating mode								
Max average power (mW)*		1~40	1~120	1~150	150~500	1~10		
Single pulse energy (μJ)		1~40	1~30		30~60	1~5		
Pulse duration (ns)		~0.6	~0.8	~1.3	~5	~15		
Peak power (kW)		1.66-66	1.25~37.5	0.7~23	0.2~6	23~46	7.5~15	0.06~0.33
Rep. rate (kHz)	INT FIXED (One internal fixed rep.rate)	0.1, 0.2 ...1.0	0.1, 0.2...1.0, 2.0, 3.0	1Hz-4kHz (Optional)		4k-6kHz (Optional)		1k-4kHz (Optional)
	EXT TRIG (External triggered)	/		1Hz-4kHz		4k-6kHz		1k-4kHz
	QCW	/		Between 5k-20kHz		Between 5k-12kHz		Between 2k-5kHz
Ave power stability (over 4 hours)		<5%, <3%, <1%					<5%, <3%	
Transverse mode		TEM <sub>00</sub>					Near TEM <sub>00</sub>	
M <sup>2</sup> factor		<1.5						
Beam diameter at the aperture (mm)		~1.0						
Beam divergence, full angle (mrad)		<2.0						
Polarization ratio		>100:1, (Horizontal or Vertical Optional)						
Warm-up time (minutes)		<5						
Beam height from base plate (mm)		27.4						
Operating temperature (°C)		10~35						
Power supply (90-264VAC)		PSU-H-LED/PSU-H-FDA						
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	POWER SUPPLY (PSU-H-LED)	POWER SUPPLY (PSU-H-FDA)
<p style="text-align: center;"><b>175(L)×60(W)×50(H) mm<sup>3</sup></b></p>	<p style="text-align: center;"><b>277(L)×145(W)×106(H) mm<sup>3</sup>, 2.6 kg</b></p>	<p style="text-align: center;"><b>275(L)×145(W)×104(H) mm<sup>3</sup>, 2.3 kg</b></p>