



MPL-Q series

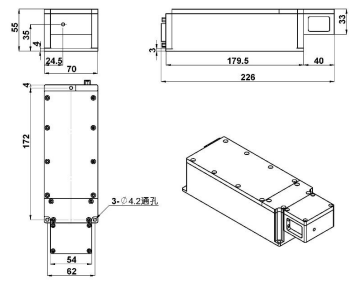
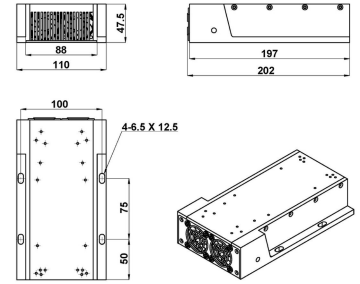
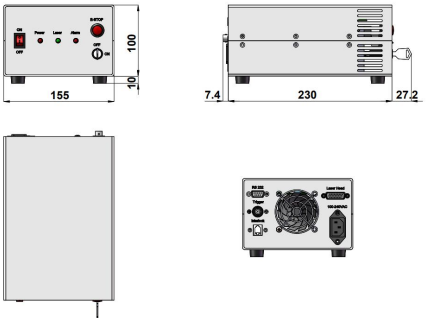
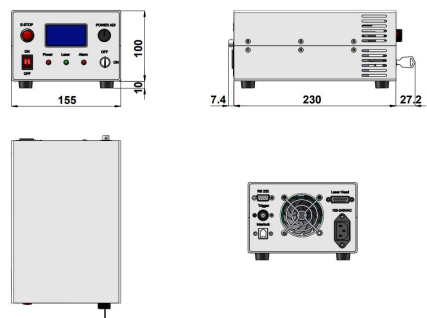
LD PUMPED ALL-SOLID-STATE PASSIVELY LASER

All solid state passively laser is made features of ultra compact, long lifetime, cost-effectiveness and easy operating, which is widely used in UV curing, micro-electronics, CD carving, laser medical treatment, scientific experiment, etc.



SPECIFICATIONS

Wavelength (nm)		266±1		355±1	
Operating mode		Passively			
Average power (mW) ¹		1-30		1-150	
Single pulse energy (μJ) ²		0.1-3		0.1-15	
Pulse duration (ns)		~1.3	~4	~1.3	~4
Peak power (kW)		0.8-2.3	0.2-0.8	0.8-11.5	0.2-3.8
Rep. rate (kHz)	Int ³	3-5			
	Ext ⁴	3-5			
	QCW ⁵	9-12			
Power stability (rms, 4 hours ±3°C)		<5%, <3%			
Transverse mode		Near TEM ₀₀			
M ²		<2			
Beam diameter at the aperture (mm)		~1.0			
Beam divergence, full angle (mrad)		/			
Polarization ratio		>50:1, Horizontal (Vertical optional)			
Warm-up time (minutes)		<5			
Beam height from base plate (mm)		35			
Operating temperature (°C)		10-35			
Power supply (100-240VAC)		PSU-Q-FDA/PSU-Q-LED			
Expected lifetime (hours)		>10000			

LASER HEAD ⁶	HEATSINK (optional TC-02-FS)
 226(L)×70(W)×55(H) mm³, 1.3kg	 202(L)×110(W)×47.5(H) mm³, 1.25kg
POWER SUPPLY (PSU-Q-FDA) ⁷	POWER SUPPLY (PSU-Q-LED) ⁸
 264.6(L)×155(W)×110(H) mm³, 2.3kg	 264.6(L)×155(W)×110(H) mm³, 2.6kg

- 1 Average power (mW)= Single pulse energy (μJ)* Rep. rate(kHz)
- 2 Any energy level can be selected within this range.
- 3 The frequency is selectable from one discrete values within the range.
- 4 External triggered.
- 5 The rep.rate is a free running value within this range.
- 6 The laser head needs to be used on a heat sink with good heat dissipation.
- 7 Fixed output energy.
- 8 In QCW mode, the output power is adjustable from 10% to 100%.