

MPL-U-532/20~60uJ

LD PUMPED ALL-SOLID-STATE Q-SWITCHED LASER

All solid state Q-switched laser at 532nm 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.

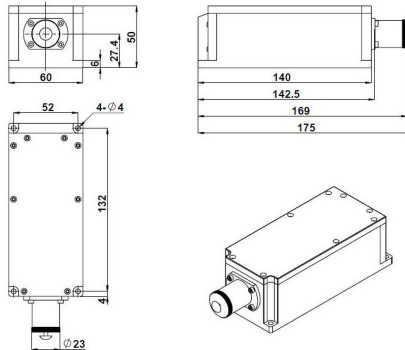
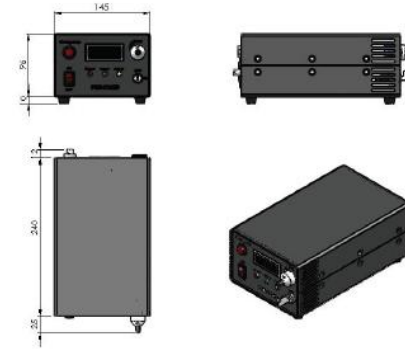
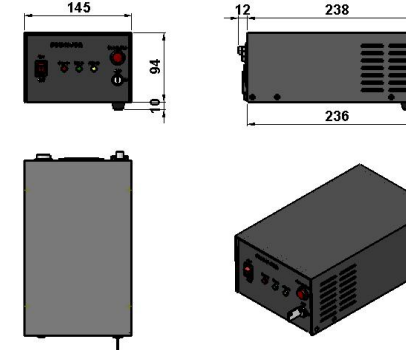


SPECIFICATIONS

Central wavelength (nm)	532±1	
Operating mode	Q-switched pulsed laser	
Single pulse energy (μJ)	20~60	
Pulse duration (ns)	~1.3ns	~4.0ns
Peak power (kW)	15~46	5~15
Rep. rate (kHz)	FIXED	Setting 4kHz-6kHz with stable pulse energy, pulse duration and pulse period, other frequencies are optional.
	EXT TRIG	4Hz-6kHz by external trigger with stable pulse energy, pulse duration and pulse period, other frequencies are optional.
	QCW	QCW state with one rep. rate between 5k-12kHz.
Average power (mW)	Average power (mW) = Single pulse energy (μJ) * Rep. rate (kHz)	
Ave power stability (over 4 hours)	<1%, <3%, <5%	
Transverse mode	TEM ₀₀	
Warm-up time (minutes)	<10	
M ² factor	<1.5	
Beam divergence, full angle (mrad)	<2.0	
Beam diameter at the aperture (mm)	~2.0	
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 period	1 year	
Remarks	UV laser at 266nm or 355nm can be generated by MPL-U-1064 or MPL-U-532 by frequency doubler.	



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

MPL-U-532	PSU-H-LED	PSU-H-FDA
 <p>175(L)×60(W)×50(H) mm³</p>	 <p>277(L)×145(W)×106(H) mm³, 2.6 kg</p>	 <p>275(L)×145(W)×104(H) mm³, 2.3 kg</p>