

DATA SHEET

LD PUMPED ALL-SOLID-STATE Q-SWITCHED LASER AT 532nm

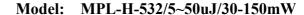
All-solid-state Q-switched laser at 532nm has the features of high peak power, high repetition rate, and short pulse duration, which is widely used in industry (marking on the diamond or stone), teaching of nonlinear optics, experiments of generating 355nm, or 266nm lasers, fiber communication, etc.



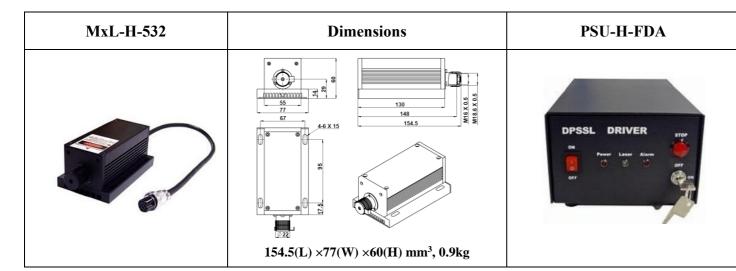








Wavelength (nm)		532 ± 1	
Operating mode		Frequency conversion of Q-switched pulsed laser	
Single pulse energy (µJ)		5~50	~30
Pulse duration (ns)		~5	~1.3
Peak power (W)		1,000~10,000	~23,000
Rep. rate (kHz)	FIXED	Setting up one fixed rep. rate internal between 1Hz~4kHz with stable pulse energy, pulse duration and pulse period	
	EXT TRIG	1Hz-4kHz by external trigger with stable pulse energy, pulse duration and pulse period.	
	QCW	QCW state with one rep. rate between 5kHz~20kHz.	
Average power (mW)		Average power (mW) = Single pulse energy (μ J) * Rep. rate (kHz)	
Ave power stability (over 4 hours)		<1%, <2%, <3%, <5%	
Transverse mode		TEM ₀₀	
Warm-up time (minutes)		<10	
M ² factor		<1.5	
Beam divergence, full angle (mrad)		<1.5	
Beam diameter at the aperture (mm)		~1.0	
Beam height from base plate (mm)		29	
Operating temperature (°C)		10~35	
Power supply (90-264VAC)		PSU-H-FDA	
Expected lifetime (hours)		10,000	
Warranty period		1 year	
Remarks		UV laser at 266nm or 355nm can be generated by MPL-H-1064 or MPL-H-532 by frequency doubler.	





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