

Opto Engine LLC

Data sheet

Rev. 2102

MPL-W-1064/170~300uJ/3~6W



LD PUMPED ALL-SOLID-STATE Q-SWITCHED LASER

All solid state Q-switched laser at 1064nm 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.



SPECIFICATIONS

Wavelength (nm)		1064 ± 1
Operating mode		Passively Q-switched
Average power (W)		3~6
Single pulse energy (μJ)		170~300
Pulse duration (ns)		~6
Peak power (kW)		30~50
Rep. rate (kHz)	FIXED	Setting up one fixed rep. rate interval between 1kHz-25kHz with stable pulse energy, pulse duration and pulse period.
	EXT TRIG	1kHz-25kHz by external trigger with stable pulse energy, pulse duration and pulse period.
	QCW	QCW state with one rep. rate between 20kHz-35kHz.
Ave power stability (over 4 hours)		<3%, <5%
Transverse mode		Near TEM ₀₀
M ² factor		<2.0
Beam divergence, full angle (mrad)		<2.0
Beam diameter at the aperture (1/e ² ,mm)		~5.0
Warm-up time (minutes)		<10
Beam height from base plate (mm)		93.5
Operating temperature (°C)		10~35
Power supply (90-264VAC)		PSU-W-LED PSU-W-FDA
Expected lifetime (hours)		10000
Warranty period		1 year



MxL-W-532	PSU-W-LED	PSU-W-FDA
<p>346 (L) × 140 (W) × 125 (H) mm³, 5.7 kg</p>	<p>336 (L) × 168 (W) × 133 (H) mm³, 4.6 kg</p>	<p>336 (L) × 168 (W) × 133 (H) mm³, 4.6 kg</p>