MPL-SW-1064/6000mW

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
Output average power (mW)		>6000
Rep. rate (kHz)	Uncontrollable	Undefined rep. rate among 30k-35kHz and unstable laser pulse emitting. Suitable for the applications only needing high peak power pulses.
	Controllable	Specified One rep. rate, such as 1k, 2k, 3k, up to 25kHz, with stable laser pulses emitting (stable pulse energy, peak, duration and period).
		Different rep. rate in the range of 1k-25kHz can be obtained by input an external TTL signal.
Max Single pulse energy (μJ)		200
Peak power (kW)		40
Pulse duration (ns)		~5
Ave power stability (over 8 hours)		<1%, <3%, <5%
Transverse mode		TEM_{00}
Warm-up time (minutes)		<10
M^2 factor		<1.3
Beam divergence, full angle (mrad)		<1.5
Beam diameter at the aperture (mm)		~2.0
Beam height from base plate (mm)		84
Operating temperature (℃)		10~35
Power supply (90-264VAC)		PSU-AOW-S(2U)/PSU-W-LED(B)
Cooling system		Air
Expected lifetime (hours)		10000
Warranty period		1 year
Pilot light		<5mW@650nm

MXL-SW-1064	PSU-AOW-S(2U)	PSU-W-LED(B)
		
269(L)×112(W) ×108(H) mm³, 3.9kg	**480(L)×302(W) ×90(H) mm³, 10.7kg**	**299(L)×168(W) ×141(H) mm³, 10.7kg**