

# Opto Engine LLC

## Data sheet

Rev. 0912

HPL-1064-Q/1~10mJ/10~100W

### LD PUMPED ALL-SOLID-STATE AOM Q-SWITCHED LASER

All solid state AOM Q-switched laser at 1064nm has the features of high peak power, high repetition rate, and short pulse duration, which is widely used in marking, carving, measure, research and so on.



#### SPECIFICATIONS

Wavelength (nm)	1064±1
Operating mode	Q-switched: AOM (Acousto-Optic Modulation)
Single pulse energy (mJ)	1~10
Pulse duration (ns)	~80
Peak power (kW)	10~100
Rep. rate (kHz)	1~100, adjustable
Average power (W)	Average power (W) = Single pulse energy (mJ) * Rep. rate (kHz) 10~100@10kHz, typical
Ave power stability (over 4 hours)	<1%, <3%, <5%
Warm-up time (minutes)	<10
Beam divergence, full angle (mrad)	<2.0
Beam diameter at the aperture (mm)	~7.0
Beam height from base plate (mm)	62.0
Cooled method	Water Cooled
Operating temperature (°C)	15~35
Power supply (220/110VAC)	PSU-HPL-Q
Expected lifetime (hours)	10000
Warranty period	1 year



HPL-1064-Q	PSU-HPL-Q	Water chiller
<p>375 (L) ×165(W) ×105(H) mm<sup>3</sup>, 7.8kg</p>	<p>340(L) ×463(W) ×221(H) mm<sup>3</sup>, 18.5kg</p>	<p>645(L) ×290(W) ×495(H) mm<sup>3</sup>, 38.0kg</p>