



HPL-1319-QM/50-100W

**WATER COOLING LD PUMPED
ALL-SOLID-STATE Q-SWITCHED
LASER at 1319nm**

All solid state Q-switched infrared laser at 1319nm has the features of high peak power, high repetition rate, and short pulse duration, which is widely used in marking, carving, measure, science research, and so on.



SPECIFICATIONS

Wavelength (nm)	1319±1
Operating mode	Actively
Average power (W) ¹	50-100@10kHz
Pulse duration (ns)	~250 @10kHz&100W
Rep. rate ²	10-20 kHz
Single pulse energy (mJ)	5-10
Peak power (kW)	20-40 @10kHz
Ave power stability (rms, 4 hours±3°C)	<5%, <3%
Beam divergence, full angle (mrad)	<3.5
Beam diameter at the aperture (1/e2,mm)	<15
Beam height from base plate (mm)	60
Warm-up time (minutes)	<10
Cooled method	Water Cooled
Operating temperature (°C)	15-35
Power supply (220-240AC)	PSU-HPL-Q & PSU-HPL-CW*2
Expected lifetime (hours)	>10000



LASER HEAD	POWER SUPPLY	POWER SUPPLY	WATER CHILLER
452 (L) × 1216 (W) × 126 (H) mm³, 15kg	290 (L) × 483 (W) × 88 (H) mm³, 7.5kg	288 (L) × 482 (W) × 90 (H) mm³, 5.5kg	525 (L) × 660 (W) × 1018 (H) mm³, 75kg

1 Any power level can be selected in this range.

2 Other rep.rate range available on request.