FREQUENCY-DOUBLED, DIODE-PUMPED Nd:YAG LASER
MODEL LDP-200MQG

An innovative laser optics design, combined with an industrial-grade power supply, results in an extraordinarily reliable and rugged diode-pumped Nd:YAG laser for industrial or scientific use.

- Efficient diode optical pumping for improved performance and reliability
- High power visible output from small diameter, low divergence beam
- Q-switched pulse stability: 1 % rms up to 30 kHz
- Jitter: ± 2.5 ns, measured at 10 kHz full diode current
- Efficient water/water heat exchange cooling system (water-cooled, refrigerated-chiller cooling system optionally available)
- Uses Intracavity SHG Assembly with LBO harmonic generator crystal
- "CE Mark" Certified; this is a CDRH Class IV laser product

Wavelength	532 nm
Transverse Mode	Multimode
Beam Diameter, nominal	< 2.0 mm
Beam Divergence, nominal	5 mr
M^2 Value	12
Polarization	Linear

Q-switched performance:

Frequency (kHz)	5	**10***	20	30	40	50
Average Power (W)	80	**100***	100	90	85	80
Pulse Energy (mJ)	16	**10***	5	3.2	2.3	1.7
Pulse Width (ns), nominal	90	**100***	150	250	300	350
Peak Pulse Power (kW)	178	**100***	33.3	12.0	7.1	4.6

Mechanical	
Optical Rail Length	21 H x 22.9 W x 152.4 L cm
Power Station Dimensions	77 H x 60 W x 86 D cm (water/water cooler)
Electrical Power	
Recommended Service	220 ± 10% VAC, 1-phase, 50/60 Hz, 30A
Average Consumption	2.8 kW, maximum with water/water cooler
Cooling	
Water	City water, 16 l/m @ 15° C max. temp. Optional city-water cooled refrigerated chiller requires city water, 8 l/m @ 25° C max. temp
Environmental	
Temperature, Operating	18 - 35°C
Temperature, Storage	5 - 60°C
Humidity	10 – 90%, non-condensing

* Laser is specified at 10 kHz; all other values are typical.

Lee Laser follows a policy of continuous improvement. Specifications are subject to change without notice.