



FREQUENCY-DOUBLED, DIODE-PUMPED Nd:YAG LASER

MODEL LDP-100MQG

Multimode

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
- Efficient water/water heat exchanger cooling system (self-contained chiller 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	4.0 mr
Polarization	Linear

Q-switched performance:

Frequency (kHz)	5	10*	20
Average Power (W)	40	50*	48
Pulse Energy (mJ)	8.0	5.0*	2.4
Pulse Width (ns), nominal	150	200*	325
Peak Pulse Power (kW)	53.3	25*	7.4

Mechanical

Optical Rail Length, standard	127 cm standard (options dependent)
Power Station Dimensions	77 H x 60 W x 85 D cm (water/water cooler) 83 H x 60 W x 85 D cm (air cooled refrigerated)

Electrical Power

Recommended Service	220 ± 10% VAC, 1-phase, 50/60 Hz, 20A
Average Consumption	2 kW, maximum

Cooling

City water cooled, 8 l/m @ 15° C max. temp.
> 2.5 bar (35 psi) pressure. Chiller requirement 1.5 kW
Self-contained, refrigerated chiller optionally available. 1-kW heat vented into room.

Environmental

Temperature, Operating	18 – 30°
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.*

