



FREQUENCY-DOUBLED, DIODE-PUMPED Nd:YAG LASER

MODEL LDP-200MQG

1-5 kHz Pulse Rate

An innovative laser optics design, combined with an industrial-grade power supply, results in a extraordinarily reliable and rugged diode-pumped Nd:YAG laser for industrial use. A TOTALLY SOLID-STATE LASER for TROUBLE-FREE MANUFACTURING !

- 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 Waist Diameter, nominal	< 2.0 mm
Beam Divergence (full angle), nominal	5.0 mr
Beam Quality (M ²) Value	12
Polarization	Linear

Q-switched performance:

Pulse Rate (kHz)	1*	3	5
Average Power (W)	25*	48	60
Pulse Energy (mJ)	25*	16	12
Pulse Width, nominal (ns)	65*	90	150
Peak Pulse Power (kW)	385*	178	80

Mechanical

Optical Rail Length, options dependent	131 cm
Power Station Dimensions	75H x 62W x 62D cm

Electrical Power

Recommended Service	220 ±10% VAC, 1-phase, 50/60 Hz, 30A
Average Consumption	3 kW, maximum

Cooling

Internal, water cooled refrigerated chiller	City water cooled, 16 l/m @ 15° C max. temp. Optional air-cooled refrigerated chiller
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Environmental

Temperature, Operating	18 - 30°C
Temperature, Storage	5 - 60°C
Humidity	10 - 90%, non-condensing



* Laser is specified at 1 kHz; all other values are typical.

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

