FREQUENCY-DOUBLED, DIODE-PUMPED Nd:YAG LASER

MODEL LDP-300MQG

1-50 kHz Pulse Rate

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 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 25 kHz
- Efficient water/water heat exchange cooling system
- 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	7 mr
Beam Quality (M^2) Value	20
Polarization	Linear

Q-switched performance:

Pulse Rate (kHz)	1	3	5	**10***	25	50
Average Power (W)	20	60	100	**150***	135	130
Pulse Energy (mJ)	20	20	20	**15***	5.4	2.6
Pulse Width, nominal (ns)	50	55	60	**65***	150	345
Peak Pulse Power (kW)	400	363.6	333.3	**230.8***	36	7.5

Mechanical

Optical Rail Length, standard	127 cm, standard
Power Station Dimensions	77H x 60W x 85D cm (includes water filter at rear)

Electrical Power

Recommended Service	220 ±10% VAC, 1-phase, 50/60 Hz, 30A
Average Consumption	4 kW, maximum

Cooling

Internal, water/water cooler	City water cooled, 24 l/m @ 15° C max. temp.

Environmental

Temperature, Operating	18 - 30°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.