UV DIODE-PUMPED Nd:YAG LASER

MODEL LDP-200MQU

355 nm Wavelength

(Preliminary)

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
- Q-switched pulse stability ≤ 5 % peak-to-peak up to 30 kHz
- Efficient water/water heat exchanger cooling system
- Uses Intracavity SHG and THG Assemblies with LBO harmonic generator crystals
- "CE Mark" Certified; this is a CDRH Class IV laser product

Wavelength	355 nm
Transverse Mode	Multimode
Beam Diameter, nominal	2.0 mm
Beam Divergence, nominal	4.0 mr
Polarization	Linear

Q-switched performance:

Frequency (kHz)	7.5	**10**	15	20	50
Average Power (W)	50	**55**	50	45	45
Pulse Energy (mJ)	6.7	**5.5**	3.3	2.25	0.9
Pulse Width (ns), typical	≤ 90	**≤ 100**	≤140	≤170	≤180
Peak Pulse Power (kW)	≥74.1	**≥55.0**	≥23.8	≥13.2	≥5.0

Mechanical

Optical Resonator Length, option dependent	152.4L x 24.1W x 20.3H cm
Power Station Dimensions	77 H x 60 W x 85 D cm

Electrical Power

Recommended Service	220 ± 10% VAC, 1-phase, 50/60 Hz, 30A
Average Consumption	2.3 kW, maximum

Cooling	City water cooled, 24 l/m @ 15° C max. temp. > 2.5 bar (35 psi) pressure.

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.